INSTITUTIONAL ACCREDITATION
SELF STUDY REPORT
Submitted to

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL (NAAC)

An Autonomous Institution of the University Grants Commission
P.O. Box No.1075, Agarbhavi, Bangalore-560072

By

H.V.P.M'S COLLEGE OF ENGINEERING & TECHNOLOGY, AMRAVATI

HVPM's College of Engineering & Technology, Amravati- 444605, Maharashtra (India)

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(Approved by AICTE, New Delhi, DTE Maharashtra State and
Affiliated to SGB Amravati University, Amravati)

PREFACE

It gives me an immense pleasure to submit the Self Study Report (SSR) of our Institute to the National Assessment & Accreditation Council (NAAC), Bengaluru for accreditation (Cycle I). This Self Study Report is a manifestation of the academic and administrative functions and activities of the institute focusing on curricular aspects, teaching-learning doctrine and assessment. The report also throws some light on measures taken for extending research, consultancy, infrastructure and other resources for better learning. The cumulative students' support, faculty's contribution, management, innovations and best practices are wrapped up aptly. The institute has scrupulously put in paramount efforts to carve out an esteemed niche overcoming the aura of resilience.

The preparation of SSR required the formation of a steering committee comprising of NAAC coordinator, assisting NAAC coordinator, Deans, Heads of all departments and the entire dynamic, energetic faculty. The steering committee gave directions, conducted critical reviews for the SSR to take its final shape. The SSR is divided into two parts. The first part includes the preface, executive summary, SWOC analysis of the institute, profile of the institute, criterion wise analytical reports and evaluation reports of six departments. The second part consists of annexure consisting of all supporting documents. The entire work of preparation of SSR involved tireless work of faculty advisors, criteria in-charges, assisting faculty, supporting staff and NAAC coordinators of all departments.

I take this opportunity to congratulate and thank the Management, the members of Steering Committee and the Internal Quality Assurance Cell (IQAC) and all my faculty members for sharing the responsibility of drafting the SSR. I extend my warm gratitude to entire administrative section and academic departments of the Institute.

The Self Study Report for the first cycle of accreditation of National Assessment and Accreditation Council (NAAC) is valuable document which has been prepared with utmost sincerity and honesty to the best of my knowledge and belief. This report is prepared according to the instructions laid down by NAAC which include Executive Summary, Profile of the college, Criterion wise analytical report, Evaluative Report of the departments, Declaration by the Head of the Institution and Compliance Certificate.

I expect that the Self Study report prepared by the Institute reflects the spot-on academic tenets and ethos of the Institute. Fervently, awaiting for the Peer Team of NAAC to pay a visit to our institution for the first cycle of accreditation

Date: 28/03/2017 Dr. A. B. Marathe
Place: Amravati Principal
HVPM's COET

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Abbreviations

3D	Three Dimensions
AICTE	All India Council for Technical Education
AMC	Annual Maintenance Contract
AMC	Amravati Municipal Corporation
AMCAT	Aspiring Mind Computer Adaptive Test
ATM	Automated Teller Machine
BE	Bachelor of Engineering
B.Sc	Bachelor of Science
BARC	Bhabha Atomic Research Centre
BMC	Bruhanmumbai Municipal Corporation
BNCOE	Babasaheb Naik College of Engineering
BOS	Board of Studies
BSNL	Bharat Sanchar Nigam Ltd
CAD	Computer Aided Design
CAP	Center Admission Process
CAS	Career Advancement Scheme
CCIL	Clearing Corporation of India Ltd
CEN	Centre of Excellence for Nano-electronics
CET	Common Entrance Test
CGPA	Cumulative Grade Points Average
CII	Confederation of Indian Industry
CMPS	Computer Science and Engineering
COET	College Of Engineering & Technology
CRO	Cathode Ray Oscilloscope
CS&IT	Computer Science and Information Technology
CSE	Computer Science & Engineering
CSI	Computer Society of India
CSIT	Computer Science and Information Technology
CSR	Corporate social responsibility
CTA	Core Technical Area
DA	Dearness Allowance
DBMS	Database Management System
DCPE	Degree College of Physical Education
DELNET	Developing Library Network
DISQ	Digital Impact Square
DSIR	Department of Scientific & Industrial Research.
DSMP	Diploma in Sports Management Program
DST	Department of Science & Technology
DTE	Directorate of Technical Education
E-books	Electronic book
ECT	English Communication Training
ED	Entrepreneurship Development
EDC	Electronics Devices and Circuit
E-journals	Electronic journals
Email	Electronic mail
ENTC	Electronic and Telecommunication
EVS	Environmental Studies
EXTC	Electronics & Telecommunication Engineering
FDP	Faculty Development Program
FICCI	Federation of Indian Chambers Of Commerce & Industry

FTP	Faculty Training Program
GVISH	Government Vidarbha Institute of Sciences and humanity
GATE	Graduate Aptitude Test in Engineering
GD PI	Group Discussion & Personal Interview
GHG	Green House Gases
GMAT	Graduate Management Admission Test
GRE	Graduate Record Examination
GTC	German Tours and Conferences,
HDPE	High Density Polyethylene
HIV	Human Immunodeficiency Virus (HIV)
HOD	Head of Department
HSC	Higher Secondary Certificate
HVPM	Hanuman Vyayam Prasarak Mandal
IBM	International Business Machines
ICT	Information and Communications Technology
IEEE	Institute of Electrical and Electronics Engineers
IEI	Institution of Engineers India
IELTS	International English Language Testing System
IETE	The Institution of Electronics and Telecommunication Engineers
IFRDA	International Foundation of Research, Development & Analytics
IIT	Indian Institute of technology
IJAEET	International Journal of Advanced Electrical and Electronics Technology
IJAITE	International Journal of Advanced Innovative Technology in Engineering
IJARCSSE	International Journal of Advanced Research in Computer Science and Software Engineering
IJCPS	International Journal of Chemical & Physical Sciences
IJERGS	International Journal of Engineering Research and General Scientific
IJESC	International Journal of Engineering Science and Computing
IJIR	International Journal of Interdisciplinary Research
IJIRME	International Journal of Innovative Research in Modern Era
IJMTER	International Journal of modern Trends in Engineering and Research
IJRASET	International Journal for Research in Applied Science and Engineering Technology
IJRCIT	International Journal of Advanced Innovative Technology
ILL	Inter Library Loan Service
INFLIBNET	Information and Library Network
INUP	Indian Nano Electronic User Programme
IOT	Internet of Things
IQAC	Internal Quality Assurance Cell
ISBN	International Standard Book Number
ISRO	Indian Space Research Organization
ISSN	International Standard Serial Number
ISTE	Indian Society for Technical Education
IT	Information Technology
IUC	Inter-University Centre
JDIET	Jawaharlal Darda Institute of Engineering & Technology, Yavatmal
JEE	Joint Entrance Exam
KRC	Knowledge Research Center
KYS	Know your Student
KYS	Know your Subject
LAPTOP	Life Long Association through Plantation of Tree and Outreach Program
LCD	Liquid Crystal Display
LDPE	Low Density Polyethylene

LED	Light emitting diode
M E	Master of Engineering
MBA	Master of Business Administration
M E	Master of Engineering
Mbps	Mega Bytes Per Second
MCIT	Master of Computer and Information Technology
MHRD	Ministry of Human Resource Development
MHT-CET	Maharashtra State Common Entrance Test
MIT	Maharashtra Institute of Technology
MNRP	Maximum Non-network Reimbursement Plan
MODROB	Modernization and Removal of Obsolescence
MOM	Mission on Mars
MOOC	Massive Open Online Course
MOU	Memorandum of understanding
NA	Non Applicable
NAAC	National Assessment and Accreditation Council
NASSCOM	National Association of Software and Services Companies
NBA	National Board of Accreditation
NCC	National Cadet Corps
NDL	National Digital Library
NEERI	National Environmental Engineering Research Institute
NGO	Non Governmental Organization
NISS	National Institute of Sport Sciences
NMC	Nagpur Municipal Corporation
NMEICT	National Mission on Education through Information and Communication Technology
NPTEL	National Programme on Technology Enhanced Learning
NSS	National Service Scheme
OBC	Other Backward Classes
OMS	Other than Maharashtra State
OPAC	Online Public Access Catalog
PCB	Printed Circuit Board
PCT	Patent Cooperation Treaty
PG	Post Graduate
PhD	Doctor of Philosophy
PM	Programming Methodology
PMKVY	Pradhan Mantri Kaushal Vikas Yojana
PP	Polypropylene
PPT	Power Point Presentation
PRMITR	Prof. Ram Meghe Institute of Technology and Research
PUT	PURCHASE- USE-TRANSFER SCHEME
R & D	Research and Development
RAM	Random Access Memory
RDIK	Ramrao Deshmukh Art & Indiraji Kapadiya
RIM	Remote Infrastructure Management
RIMM	Remote Infrastructure Monitoring and Management
RO	Reverse Osmosis
RRC	Research Recognition Committee
SAP	Systems Applications & Products
SBC	Special Backward Class
SC	Scheduled Castes
SGB	Sant Gadge Baba
SGBAU	Sant Gadge Baba Amravati University

SIP	Summer Internship Program
SOP	Statement Of Purpose
SOPs	Standard Operating Procedures
SRC	Student Representative Committee
SSS	Skill Sharpening School
SST	Skill Sharpening Training
ST	Scheduled Tribes
STTP	Short Term Training Program
SWAYAM	Study Webs of Active-Learning for Young Aspiring Minds
T&P	Training and Placement
TA	Travelling Allowance
TCS	Tata Consultancy Services
TOFEL	Test of English as a Foreign Language
TPO	Tanning & Placement Officer
UAE	United Arab Amirates
UG	Under Graduate
UGC	University Grant Commission
VJNT	Vimukta Jati and Nomadic Tribes
VLSI	Very Large Scale Integration
VLSICS	VLSI design & Communication Systems
VPN	Virtual Private Network
Wi-Fi	Wireless Fidelity
YRC	Youth Research Centre

Executive Summary

"Learning is not attained by chance; it must be sought for with ardor and diligence"

Hanuman Vyayam Prasarak Mandal's College of Engineering and Technology, is one who comprehends and strives to adhere by the above quote. The institution feels gratified to present the Self Study Report (SSR) to the National Assessment and Accreditation Council, Bengaluru for ascertaining its eminence among the technical institutions' fraternity. The College of Engineering and Technology was established in the year 2002-2003 and is permanently affiliated to Sant Gadge Baba Amravati University, Amravati. The college is approved by All India Council for Technical Education, New Delhi; Directorate of Technical Education, Mumbai. Two out of three eligible courses were accreditated by National Board Accreditation, the validity of which was upto 2014-15. HVPM's College of Engineering and Technology is run by Hanuman Vyayam Prasark Mandal, Amravati established in 1914 and which is registered under Bombay Public Trust Act 1950 and Society Registration Act 1860. The HVPM is voluntary, non-political and secular institute, standing on the stone pillar of egalitarianism. It was founded by Vaidya brothers namely Shri Ambadaspant Vaidya and Shri Anant Krishna Vaidya on the broader ethos of youth with physical, moral, ethical empowerment for national freedom and social justice. They had envisioned of an institution that will blend patriotism and quality education into the blood of its students.

HVPM's serene campus had been blessed with foot prints of freedom fighters, social workers, social reformers of all the time. It has a very rich heritage of glorious 100 years of promoting Indian traditional sport and physical culture. The consortium believes in the fact that "A sound mind lives in a sound body"; therefore physical fitness training and education are catered together. The management strongly believes that modern professional education must remain true to the spirit of Indian ethos and culture. Thus, the institute insists on value-based education, believing firmly that a community uncaring for its traditions is decadent and insubstantial. For bringing this ideology to fruition, the Institution is playing an active role for extending a helping hand to social cause. Various initiatives like 'Help Line', established to rescue any person especially girls/women in distress; the 'Child Line', for the welfare of children in need, are undertaken. An exceptional benevolent move, 'Shetkari Jagruti Abhiyan' have been started to help the family of farmers who committed suicide to overcome the trauma and to boost up their morale. Hon. Prime-Minister of India has taken note of this and appreciated the indigenous initiative. The institution is marching ahead with its policies and principles with the tag-line of **"Aage Badho Sabse Aage Badho"**.

Identifying the need of empowerment of youth in technical education in the era of knowledge driven economy, visionary Padmashri P.A. Vaidya**,** the Hon. General Secretary of HVP Mandal, endorsed permission to trust to initiate engineering education. In sync with his thoughts, the trust established the College of Engineering and Technology in the year 2002.

Our College

College of Engineering and Technology, established under the Hanuman Vyayam Prasarak Mandal, is an institution having a dedicated outlook towards Quality in Technical Education. Right since foundation, there have been conscious and persistent efforts towards pursuit for excellence in the overall development of the students. The academic schedule is so framed as to keep the students on toes to plan their activities beyond college engagements; to pursue hobbies, interests, explore career options, take up interesting internships etc. which otherwise lies beyond the ambit of technology education.

Understanding the fact that lessons in engineering cannot be confined to only class room teaching, the education in our college has always tried to reach beyond the curriculum. A special lineup called "Core Technical Area" CTA has been identified from the miscellaneous courses and run scrupulously to enhance the employability skills of students. Recognizing, that the graduates of tomorrow can no more be contended by seeking *a job*, but they should be able to create jobs for others; the students are encouraged to take a leap for a Research, Innovation and Incubation based design approach. Students have been encouraged to participate in real life projects at national as well as international level to achieve a global outlook. Projects with innovative ideas and entrepreneurial approach are encouraged.

The institute has always envisioned instilling life skills among the students through their participation in various extracurricular activities like NSS, intercollegiate sports and cultural competitions and thereby, has won several accolades too. With this global vision, the HVPM's College of Engineering and Technology is gearing up to become a quality engineering institute.

The spectacular growth in a short period of 13 years was possible due to humane view of management towards faculty and staff. The faculty has put in efforts in pursuing research & development (R&D) and consultancy activities which have helped them to keep abreast with the latest developments in their respective fields of interest.

Promoting research with students' centric system does not only produce graduates with flying colours but future ready budding professionals. Growth of Institution, improvement in the faculty qualification, number of merit students, Accreditation by NBA has resulted the institute establishing a strong foot hold in engineering education. Thus, HVPM's COET has obtained permanent affiliation from Sant Gadge Baba Amravati University, Amravati.

The college aims to be an autonomous institution.

SWOC ANALYSIS OF THE INSTITUTION

STRENGTH
- Well qualified, motivated and competent blend of high experience and young dynamic faculty.
- Effective teaching-learning process with special emphasis on students' centric learning with advanced education technology.
- Emphasis on innovative practices, thrust area activities.
- Systematically developed strong Industry-Institute Interaction.
- Employability enhancement programme in core technical areas in association with industry.
- Established center for modernized and systematized Indian system of physical education with state of Art, Sports facilities like Running Track, Swimming Pool, Play Ground & Stadium in the campus.
- Excellent infrastructure and well equipped laboratories.
- Special attention towards Training and Placement.
- Residential facilities for students.
- Highly disciplined environment.
- Safety and security in and around the campus.
- Spacious college building in Green campus with Solar Power Plant, Rain Water Harvesting, Solid Waste Management system.

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WEAKNESSESS
- Many students come from poor socio-economic and rural background; have low academic background, weak communication skills and presentation skills.
- Located in Industrially underdeveloped region and highly feminine prone area.
- Constraints of financial resources being Self-Financed Unaided institute.

OPPORTUNITIES
- Opportunity to develop the status of institution from an affiliating college to an Autonomous Institution.
- More scope to implement modern educational technology in teaching learning process.
- To develop more number of domain specific knowledge and skills based employability enhancement programme.
- Generate more opportunities for self employment & placement for students.

CHALLENGES
- Pace of rate of change of Technology
- Quality of students at entry level.
- Excessive regularity frame work.

SECTION - B
PREPARATION OF SELF-STUDY REPORT

1. Profile of the Affiliated / Constituent College

1. Name and Address of the College:

Name :	H.V.P. Mandal's College of Engineering & Technology	
Address :	H.V.P. M. Campus, Hanuman Vyayam Nagar,Amravati	
City : Amravati	Pin : 444605	State : Maharashtra
Website :	www.hvpmcoet.in	

2. For Communication:

Designation	Name	Telephone with STD code	Mobile	Fax	Email
Principal	Dr. Anant Balkrishna Marathe	O: 0721-2563422 R: 0721-2561632	9850268814	0721-2571170	drabmarathe@yahoo.co.in
Vice Principal	--	O: R:--	--	--	--
Steering committee co-ordinator	Dr.U.A.Kshirsagar	O: 0721-2563422 R:0721-2561632	9421828266	--	ujwalabelorkar@rediffmail.com

3. Status of the Institution:

Affiliated College ☑

Constituent College ☐

Any other (specify) ☐

4. Type of Institution:
a. By Gender

  i. For Men ☐

  ii. For Women ☐

  iii. Co-education ☑

b. By Shift

  i. Regular ☑

  ii. Day ☐

  iii. Evening ☐

5.   It is a recognized minority institution?

Yes   ☐

No   ☑

If yes specify the minority status (Religious/linguistic/ any other) and provide documentary evidence. | ------ |

6.   Sources of funding:

Government   ☐

Grant-in-aid   ☐

Self-financing   ☑

Any other   ☐

7.   a. Date of establishment of the college   :   27/05/2002 (dd/mm/yyyy)

b. University to which the college is affiliated /or which governs the college

(If it is a constituent college) | Sant Gadge Baba Amravati University, Amravati **(Annexure- I)** |

c. Details of UGC recognition:

Under Section	Date, Month & Year (dd-mm-yyyy)	Remarks(If any)
i. 2 (f)		Submitted Letter to UGC H/COET/7610/16 dated on 15/09/2016
ii. 12 (B)		

(Enclose the Certificate of recognition u/s 2 (f) and 12 (B) of the UGC Act)

d. Details of recognition/approval by statutory/regulatory bodies other than

UGC (AICTE ☑ , NCTE, MCI, DCI, PCI, RCI etc.)

Under Section/ clause	Recognition/Approval details Institution/Department Programme	Day, Month and Year (dd-mm-yyyy)	Validity	Remarks
Under Section (1) of section(23) read with section (10) and sec. (11)of AICTE Act. 1987 (52) of 1987	(1) Engineering & Technology	30-Apr. 2016	From 2002-2003 Till 2015-16	Every Year EOA is given by AICTE
	Management Letter No. F.No. Western/1-2809266893/2016 EOA			

(Annexure- II)

8. Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?

Yes ☐   No ☑

If yes, has the College applied for availing the autonomous status?

Yes ☐   No ☑

9.   Is the college recognized

    a. by UGC as a College with Potential for Excellence (CPE)?

Yes ☐   No ☑

    If yes, date of recognition: …………………… (dd/mm/yyyy)

    b. for its performance by any other governmental agency?

Yes ☐   No ☑

    If yes, Name of the agency …………………… and

    Date of recognition: …………………… (dd/mm/yyyy)

10. Location of the campus and area in sq.mts:

Location *	Urban
Campus area in sq. mts.	11.64 (Acres) 47105.40 Sq.Mts.
Built up area in sq. mts.	12377 Sq.Mts.

(* Urban, Semi-urban, Rural, Tribal, Hilly Area, Any others specify)

11. Facilities available on the campus (Tick the available facility and provide numbers or other details at appropriate places) or in case the institute has an agreement with other agencies in using any of the listed facilities provide information on the facilities covered under the agreement.

  Auditorium/seminar complex with infrastructural facilities

- **Sports facilities**

    *   Play ground   -   11
    *   Swimming pool   -   03
    *   Gymnasium   -   02

- **Hostel**

  * Boys' hostel
    i. Number of hostels - 01

    ii. Number of inmates - 20

    iii. Facility (mention available facilities)-
    Water cooler with Aqua-guard, Wifi facility, Security Guard,
    Warm Water facility. Ambulance facility

  * Girls' hostel
    i. Number of hostels - 01

    ii. Number of inmates - 70

    iii. Facilities (mention available facilities)
    Water cooler with Aqua-guard, Wi-fi facility, Security Guard,
    Warm Water facility, Ambulance facility

  * Working women's hostel - Not Available
    i. Number of inmates
    ii. Facilities (mention available facilities)

- **Residential facilities for Principal Quarter, Teaching and Non-teaching Staff (give numbers available — cadre wise)**

Principal Quarter	-	01
Faculties & Staff Quarter	-	02
Guest House	-	02
Cafeteria	-	01
Health centre	-	01

  First aid, Inpatient, Outpatient, Emergency care facility, Ambulance ☑

  Health Centre Staff –

  Qualified doctor - --   Full time ☐   Part-time ☐

  Qualified Nurse - --   Full time ☐   Part-time ☐

- Facilities like banking, post office, book shops   ☑
- Transport facilities to cater to the needs of students and staff   ☑
- Animal house   ☐
- Biological waste disposal   ☐
- Generator or other facility for management/ regulation of electricity and voltage   ☑

- Solid waste management facility ☑
- Waste water management ☑
- Water harvesting ☑

12. **Details of Programmers offered by the College (Give data for current academic year)**

SI. No.	Programme Level	Name of the Programme/ Course	Dura-tion	Entry Qualific ation	Medium of instruction	Sanctioned/ approved Student strength	No. of students admitted
1	Under Graduate	**Programme : Engineering & Technology Courses :** i) Computer Science & Engineering (1st Shift)	4 Year	HSSC	English	6 0	33
		ii) Electronics & Telecommunications Engineering (1st Shift)	4 Year	HSSC	English	6 0	11
		iii) Information Technology (1st Shift)	4 Year	HSSC	English	6 0	16
		iv) Mechanical Engineering (1st Shift)	4 Year	HSSC	English	6 0	53
		v) i) Computer Science & Technology (1st –Shift Direct 2nd Year))	3 Year	Diploma	English	60	47
		ii) Electronics & Telecommunications Engineering (2nd Shift, Direct 2nd Year)	3 Year	Diploma	English	60	61
2.	Post Graduate	**(A) Prog.: Engg. & Tech.** i) Computer Scinece & Technology 2nd Shift	2 Year	B.E.	English	18	04
		ii) Computer Scinece & Information Technology 2nd Shift	2 Year	B.E.	English	24	02
		iii) Electronics & Telecommunications Engineering (2nd Shift)	2 Year	B.E.	English	24	08
		(B) Management : Courses: a) Master in Business Administration	2 Year	Any Graduate	English	60	49

13. Does the college offer self-financed Programmes ?

Yes ☑   No ☐

If Yes, how many? | ALL |

14. New programmes introduced in the college during the last five years if any?

| Yes | ✓ | No | | Number | 06 |

SI. No.	Programme Level	Name of the Programme/ Course	Dura -tion	Year	Sanctioned/ approved Student strength
1.	Under Graduate	**(A) Programme : Engineering & Technology**			
		i) Computer Science & Engineering (1st Shift Direct 2nd Year))	4 Year	2011-12	6 0
		ii) Electronics & Telecommunications Engineering (2nd Shift, Direct 2nd Year)	4 Year	2011-12	60
		iii) Mechanical Engineering (1st Shift)	4 Year	2014-15	6 0
2.	Post Graduate	**(B) Prog.: Engg. & Tech.** i) Computer Scinece & Technology 2nd Shift	2 Year	2011-12	18
		ii) Computer Scinece & Information Technology 2nd Shift	2 Year	2012-13	24
		iii) Electronics & Telecommunications Engineering (2nd Shift)	2 Year	2012-13	24

15. List the departments: (respond if applicable only and do not list facilities like Library, Physical Education as departments, unless they are also offering academic degree awarding programmes. Similarly, do not list the departments offering common compulsory subjects for all the programmes like English, regional languages etc.)

Faculty	Departments	UG	PG	Research
Engineering & Technology	Computer Science & Engineering	Available	Available	Not Available
	Electronics & Telecommunication Engineering	Available	Available	
	Information Technology	Available	Available	
	Mechanical Engineering	Available	---	
MBA	MBA	---	Available	

16. **Number of Programmers offered under** (Programme means a degree course like B.E., M.E., & MBA)

   a.   annual system   ☐

   b.   semester system   ☑

   c.   trimester system   ☐

17. **Number of Programmes with**

   a.   Choice Based Credit System   ☐

   b.   Inter/Multidisciplinary Approach   ☐

   c.   Any other (specify and provide details)   ☑   Credit Grade System

18. **Does the college offer UG and/or PG programmes in Teacher Education?**

   Yes   ☐   No   ☑

   If yes,
   a.   Year of Introduction of the programme(s)……………… (dd/mm/yyyy)

   and number of batches that completed the programme   [   ]

   b.   NCTE recognition details (if applicable)
   Notification No.: ………………………………
   Date: …………………………… (dd/mm/yyyy)
   Validity:……………………

   c.   Is the institution opting for assessment and accreditation of Teacher Education Programme separately?

   Yes   ☐   No   ☑

19. **Does the college offer UG or PG programme in Physical Education?**

   Yes   ☐   No   ☑

If yes,

a. Year of Introduction of the programme(s)………………. (dd/mm/yyyy)

and number of batches that completed the programme

b. NCTE recognition details (if applicable)
   Notification No.: …………………………………
   Date: ………………………………… (dd/mm/yyyy)
   Validity:…………………………………………

c. Is the institution opting for assessment and accreditation of Physical Education Programme separately?

   Yes ☐   No ☑

20. Number of teaching and non-teaching positions in the Institution

Positions	Teaching faculty						Non-teaching staff		Technical staff	
	Professor		Associate Professor		Assistant Professor					
	*M	*F	*M	*F	*M	*F	*M	*F	*M	*F
Sanctioned by the UGC / University / State Government *Recruited*	01	01	01	02	25	12	24	02	25	01
Yet to recruit	7		14		20		8		17	
Sanctioned by the Management/ society or other authorized bodies *Recruited*	02	02	04	02	43	34	32		29	
Yet to recruit							3		14	

*M-Male *F-Female

21. Qualifications of the teaching staff:

Highest Qualification	Professor		Associate Professor		Assistant Professor		
	Male	Female	Male	Female	Male	Female	Total
Permanent teachers(Qualified & Regular Teacher)							
D.Sc./D.Lit	0	0	0	00	00	00	00
Ph.D	3	2	2	01	01	02	11
M.Phil	0	0	0	01	00	00	01
PG	0	0	2	00	37	32	71
*PG Pursuing Permanent teachers(Qualified & Regular Teacher)	0	0	0	0	5	0	5

Temporary teachers							
Ph.D	0	0	0	0	0	0	0
M.Phil	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0
Part-time teachers							
Ph.D	0	0	0	0	0	0	0
M.Phil	0	0	0	0	0	0	0
PG	0	0	0	0	1	0	1

22. **Number of Visiting Faculty /Guest Faculty engaged with the College.** **15**

23. **Furnish the number of the students admitted to the college during the last four academic years.**

Categories	2013-14		2014-15		2015-16		2016-17	
	Male	Female	Male	Female	Male	Female	Male	Female
SC	45	93	55	75	58	94	58	87
ST	02	01	01	02	02	02	04	05
OBC	337	420	236	405	288	416	283	311
General	143	178	130	187	124	168	123	135
Others	45	49	48	51	44	52	43	37

24. **Details on students enrollment in the college during the current academic year:**

Type of Students	UG	PG	M. Phil.	Ph.D.	Total
Students from the same state where the college is located	940	144	--	--	1084
Students from other states of India	2	--	--	--	02
NRI students	--	--	--	--	--
Foreign students	--	--	--	--	--
Total	942	144	--	--	1086

25. **Dropout rate in UG and PG (average of the last two batches)**

UG **21** PG **02**

26. **Unit Cost of Education**
(Unit cost = total annual recurring expenditure (actual) divided by total number of students enrolled)

 a) including the salary component **Rs. 63394/-**

 b) excluding the salary component **Rs. 13869/-**

27. **Does the college offer any programme/s in distance education mode (DEP)?**

Yes ☐ No ☑

If yes,

a) is it a registered centre for offering distance education programmes of another University

Yes ☐   No ☑

b) Name of the University which has granted such registration.

☐

c) Number of programmes offered

d) Programmes carry the recognition of the Distance Education Council.

Yes ☐   No ☑

28. Provide Teacher-student ratio for each of the programme/course offered

Teacher-Student Ratio for Academic year 2016 17

S. N.	Program Level	Courses offered (UG)	Sanctioned/ approved Student Strength	Duration - years	Actual No. of Students	Teachers Student Ratio
1	Under Graduate	Computer Science & Engg.	420	4	346	1:12
2		Electronics & Telecommunication Engg.	420	4	350	1:12
3		Information Technology	240	4	95	1:7
4		Mechanical Engg.	180	4	189	1:17
1	Post Graduate	Computer Science & Engg.	36	2	26	1:9
2		Electronics & Telecommunication Engg.	48	2	21	1:5
3		Computer Science & Information Technology	48	2	13	1:3
4		MBA	120	2	85	1:9

29. Is the college applying for

Accreditation : Cycle 1 ☑   Cycle 2 ☐   Cycle 3 ☐   Cycle 4 ☐

Re-Assessment: ☐

(Cycle 1refers to first accreditation and Cycle 2, Cycle 3 and Cycle 4 refers to re- accreditation)

30. Date of accreditation* (applicable for Cycle 2, Cycle 3, Cycle 4 and re-assessment only)

Cycle 1: ……………… (dd/mm/yyyy) Accreditation Outcome/Result………..
Cycle 2: ……………… (dd/mm/yyyy) Accreditation Outcome/Result………...
Cycle 3: ……………… (dd/mm/yyyy) Accreditation Outcome/Result………...
* Kindly enclose copy of accreditation certificate(s) and peer team report(s) as an annexure.

31. Number of working days during the last academic year (2015-16)

227

32. Number of teaching days during the last academic year (2015-16)
(Teaching days means days on which lectures were engaged excluding the examination days)

187

33. Date of establishment of Internal Quality Assurance Cell (IQAC)

30.07.2016

34. Details regarding submission of Annual Quality Assurance Reports (AQAR) to NAAC

AQAR (i)   ……………… (dd/mm/yyyy)
AQAR (ii)   ……………. (dd/mm/yyyy)
AQAR (iii) …………………. (dd/mm/yyyy)
AQAR (iv) ………………… (dd/mm/yyyy)

35. Any other relevant data (not covered above) the college would like to include.
(Do not include explanatory/descriptive information)

CRITERION-I

CURRICULAR ASPECTS

1.1 Curriculum Planning and Implementation

1.1.1 State the vision, mission and objectives of the Institution, and describe how these are communicated to the students, teachers, staff and other stakeholders.

The Vision, Mission and Objectives of the Institution are as follows:

Vision:

To make this Institute a center of quality technical and professional education, training and promoting research.

Mission:

1. To offer a well-balanced programme of learning in technical and professional education

2. To provide opportunities for overall personality development, discipline and values in students

3. To establish linkages with Industries and other stake holders for the promotion of dissemination of knowledge of applied technology, placement of students and continuing education

Objectives:

1. To qualify the students for University and other examinations for making them eligible for degrees conferred by University

2. To provide for research and dissemination of knowledge through instructions, training and education

3. To take appropriate measures for promoting innovations in teaching-learning process and inter-disciplinary studies and research

4. To pay attention to welfare of society in general

5. To inculcate –

Table 1.1.1 Professional and Core Employability Skills

(A) Professional Skills	(B) Core Employability Skills
• Identify, Formulate, and solve technical / Engineering Problems • Design a system, component, or process to meet desired needs • Use appropriate / modern tools, equipments and techniques • Apply Knowledge of mathematics, Science and Engineering • Acquire knowledge of contemporary issues • Develop Creativity	• Integrity • Self Discipline • Reliability • Self-Motivation • Teamwork • Understanding & Taking Directions for work assignments • Willingness to Learn • Flexibility • Empathy

Goals

1. To groom departments' laboratories for research programs

2. To develop thrust areas activities like energy, waste management, and green campus

3. To develop 'lifelong learning' activities

4. To achieve at least 50% placement of students

Long Term Goal

To become self Reliant autonomous technical institute with, research & development in identified programmes & thrust areas.

Vision, Mission and Objectives of the Institution is communicated to the students, teachers, staff and other stakeholders by way of:

• Displaying at main entrance of the Institution and at all prominent places in the campus such as the Departments, library, etc.

• On the Institution's Website (www.hvpmcoet.in)

• Conveying during various Students/Faculty Orientation/Induction Programs.

• Publishing regularly in Institution Prospectus, Academic Diary, Teachers Diary, College Annual Magazine, Placement Brochures and other publications by the Institution.

• Displaying during important events like Technizzma (A Technical festival), ISTE Programmes, Conferences/Seminars/Workshops, etc. organized by the Institution and Departments

- Annual Social Gathering; Technical Exhibitions like Final Year Projects and Mini Projects exhibitions, parents and alumni meets etc.
- Communication with various industries and society includes sharing of Vision and Mission statement of the Institution.

1.1.2 How does the institution develop and deploy action plans for effective implementation of the curriculum? Give details of the process and substantiate through specific example(s).

The College is affiliated to Sant Gadge Baba Amravati University, Amravati and the curriculum and syllabi prescribed by the University is strictly followed. Academic Calendar (Working Days), Examination Time table (Days), Teaching and Examination Scheme is also given by affiliating University. The college prepares its academic schedule, course wise time table, internal assessment schedule in consultation with HOD's to accommodate effective coverage of syllabus, co-curricular and extracurricular activities, aligning with the overall academic calendar of the University.

Process of Effective Curriculum Implementation

- Preparation of Academic Dairy & Calendar
- Distribution of College activity portfolios
- Identification of key performance areas by the faculty
- Distribution of subjects by HODs according to workload
- Display of Time-Table
- Teachers are encouraged to impart the curriculum through innovative teaching-learning methods including brain storming, flip- class room based, power point presentations, assignments, discussions, workshops, seminars, industrial visits, e-learning resources apart from regular/traditional chalk and talk methods.
- Identification of prerequisite through the scheme of Know Your Subject
- Preparation of Teaching & Session plan by subject teacher
- Preparation of Laboratories to ensure working of Lab. instruments and availability of consumable
- Conduction of Theory and Practical as per academic schedule, teaching plan & session plan

- Mid-session feedback from students
- Cumulative periodic progress reports by subject teacher, class teacher and HODs
- Corrective measures based on students feedback & progress reports
- Conduct of mid-term internal assessment like assessment test, centralized common test, centralized valuation and result declaration within three days
- Performance measurement & analysis and inform the same to parents
- Parents meets, if required
- Term end common test examination for students' internal assessment
- Term work submission
- Remedial classes, remedial test, wherever required
- Semester end examination conducted by affiliated University
- Self-Performance Appraisal Report of Teachers including:

  Category I: Teaching, learning and Evaluation related activities

  Category II: Professional Development, co-curricular and extension activities

  Category III: Research, Publication and Academic contribution

   (Evaluated by peers and external evaluator, stated in Teachers academic diary)

1.1.3 **What type of support (procedural and practical) do the teachers receive (from the University and/or Institution) for effectively translating the curriculum and improving teaching practices?**

Support (procedural and practical) received from University
- Academic calendar includes Number of teaching days, public holidays etc
- Curriculum syllabus, teaching and examination scheme
- List of textbooks, reference books
- List of suggestive experiments for practical subjects
- Unit wise schedule scheme
- Distributions of marks of internal assessment and University examination
- Academic schedule, examination schedule (theory and practical)
- Guidelines and procedure for question paper setting and valuation
- Question papers for end examination and arrangement of external examiner for conduction of University practical examination
- Appointments of examiners

- Paper Valuation of University examinations
- Preparation and declaration of results
- Qualification, experience and approval for faculty recruitment
- Awareness programme and faculty development programme like refresher courses, orientation programme, workshops

Support (procedural and practical) received from the Institution

- Adequate infrastructure
- ICT infrastructure including LCD projectors , Wi-Fi and high speed internet connectivity availability of NPTEL and other MOOC materials
- Conducive Environment
- Modern and advance instruments along with training
- Technical and non-technical supporting staff
- Well structured planning like academic calendar, time table, teachers diary containing details of Institute's Vision, Mission, goals, objectives, expected key performance area, performance base appraisal scheme, roles and responsibilities
- Incentives for performance, support for innovative practices and freedom to experiment to improve and practice new teaching methodologies
- Interaction with external world, participation in conferences, seminars, industrial visits & interaction
- Providing text and reference books and other reference material like Journals, Magazines, e-resources etc.
- Inviting Scientist, Industry experts, eminent faculties, adjunct faculties, and resource persons for students/faculties interaction and knowledge enrichment
- Administrative support
- Availability of desktops personnel computers for each faculty to prepare for lecture notes, question banks, e-resource materials and presentations

1.1.4 **Specify the initiatives taken up or contribution made by the institution for effective curriculum delivery and transaction on the Curriculum provided by the affiliating University or other statutory agency**

The contribution made by the Institution for effective curriculum delivery and transaction on the Curriculum provided by the affiliating University as:

- Execution, coordination and control of activities are planned in Academic diary and Academic schedule
- Teaching plan and session plan preparation before start of session as per curriculum and implemented with the help of teaching-learning aids like PPT presentation using LCD projector, NPTEL and other relevant video's demonstration, agile Lecture methods, field visits/Industry visit
- New teaching methodology such as self-learning mode, group learning, collaborative learning
- The above execution of curriculum is monitored through regular coordination committee of principal, Deans, HODs and Registrar of the college
- Planned the leave and alternative arrangements is made mandatory to faculty if leave taken during academics to avoid an academic loss
- Mid- session feedback and corrective actions
- Maintaining academic conducive environment
- Remedial classes are planned and executed for weak students
- Parent meet is arranged at end of every session.
- Internal assessment is done on the basis of sessional examination
- All the labs are connected with internet and computer center

1.1.5 How does the Institution network and interact with beneficiaries such as Industry, research bodies and the University in effective operationalization of the curriculum?

In effective operationalization of the curriculum, Institution's network and interaction with Industry, research bodies and University are as:

- Institute-Industry interaction and networking to aware with Industry trends to mitigate gap of University curriculum and technology in Industry applications
- Industry experts of leading Industry like Microsoft, CCIL etc. are on Governing body of the college
- Industry experts from domain knowledge are on the panel of 'adjunct and resource persons of Industry'
- Organizing their inviting lectures during the course of study on related topics physically or virtually

- Guidance taken for academic projects as per University curriculum
- Visits to Industry, data centers, laboratories to supplement the application of theoretical knowledge given in the class room
- Inviting scientists and researchers for key note addresses, expert talk as resource person during national conferences, seminars, workshop and other related meeting organized by Institution
- Inviting scientist, researchers for one/two week training programme on the advanced curriculum topic
- Joint publications of faculty with researchers/ scientists/experts
- Inviting researchers/ scientists/experts to supplement, conduct of curriculum

Table 1.1.5(a) Details of Interaction of Students and Faculties with Industry

Session 2015-2016				
1	SunSOFT Solutions & Consultancy Pvt. Ltd	Rajiv Ranjan	5th March 2016	110
Session 2014-2015				
Sr. No.	**Name & Address of Company**	**Industry Expert**	**Date**	**Beneficiary Students No.**
1	Knowmax Solutions Pvt. Ltd. Nagpur	Laxman Hedaoo	16th July 2014	64
2	Knowmax Solutions Pvt. Ltd. Nagpur	Sagar Khuje	18th July 2014	68
5	Technoltalk Engineering, Pune	Sumit Malpani,	23rd March 2015	70

Table 1.1.5(b): Details of Institute-Industry Interaction

S. N	**Name & Address of Company**	**Name of Resource Person**	**Date**	**Beneficiary Students No.**	**Subject**
Session 2016-17					
1	S.R Academy	Chandak Shashank	22nd Aug 2016	36	Cost optimization and construction project for MEP
2	CCIL	C Kajwadkar	24th Sept. 2016	300	Cyber Security
3	Risk Quotient Pvt. Ltd, Mumbai	Chaitanya Kunthe	24th Sept 2016	250	Cyber Security
4	TCS	Girish Dandiga	1st & 2nd October 2016	140	Framing Problem Statement for projects

| 5 | Microsoft | Mandar Kulkarni | 1st & 2nd October 2016 | 140 | Microsoft's Azure technology |
| 6 | MNCE BIZ | Narayanan Ramanathan | 1st & 2nd October 2016 | 140 | Projects |

Table 1.1.5(c) Details of STTP/ Expert Talk/ Workshop

Year 2016-17			
Sr. No.	Type of Programme Organized	Date	Duration
1	"Orientation Programme for faculty", By: Dr. Vishram Bapat Ex. Professor & Head, Department of Electrical Engineering, Sinhgad Institute of Technology, Lonavala	22nd June 2016 - 23rd June 2016	Two days
2	FPGA based Image Processing & VLSI	13th June 2016- 22nd June 2016	Two weeks
3	"Industry Institute Interaction for projects initiative", By: Mr. Ashok Saraf, Consultant in Multinational Company, Pune	24th June 2016 – 26th June 2016	Three days
4	Expert Talk For faculty, Staff and Students on "ISRO : Its Mission & Completion", By Dr. Jayavant Ingale, Ex-Scientist at Indian Space Research Organization, Bangalore	07th July, 2016	One day
5	SIP Project Review, By:Mr.Narayanan and Mr. C. Kajwadkar	23rd and 24th October, 2016	Two days
6	"Cyber Security", By: Mr. Chaitanya Kunthe, Mrs. Dipanjali Kunthe from Risk Quotient Consultancy Pvt. Ltd., Vashi Navi Mumbai, Mr. C. Kajwadkar, Vice President, CCIL, Mumbai.	24th Sept, 2016	One day
7	"Cloud Computing", By: Mr. Girish Dandige, Program Director, Tata Consultancy Services, Thane and Invited talk by Mr. Mandar Kulkarni, Director – Cloud and Datacenter Programs, Operations, Microsoft Corp. (India) Pvt. Ltd.	02nd October, 2016	One day
8	Workshop on, "Internet of Things Using Android Programming"	3rd -5th October, 2016	Three days
9	Students Visit to Cyber Cell at Amravati Division	24th October 2016	One day
10	STTP on, 'Big Data analytics', Resource Person : Mr. Tushar Kulkarni, MITU, Pune	15th - 24th December,2016	Two weeks

Year 2015-16			
Sr. No.	Type of Programme Organized	Date	Duration
1	Workshop on "ASP DOT NET Technology", By: A.M. Kabra, JK Innovative Pvt. Ltd, CAD DESK, Amravati	31st July, 2015	One day
2	Techno–buzz Expert Talk on "Accessing the e-learning Resources", By : Dr. U.A. Kshirsagar	06th Aug, 2015	One day
3	Workshop on "Trends in VLSI"	24th Aug, 2015	One day
4	Workshop on "PHP and Joomla", By- SSIT Pvt. Ltd., Nagpur	24th–25th Aug 2015	Two days
5	Workshop on 'Awareness of Various Sectors that can Mechanical Engineering Contribute", By: Mr. Sumeet Malpani, Mr. Makrand Terkar, Mr. Swapnil Technotalk Engineering, Pune	01st -05th Sept, 2015	One week
6	Workshop on "Ek Nayi Khoj", By: Sheikh Jahangir, Rancho of Movie 3 Idiot	23rd Sept, 2015	One day
	Workshop on "Quadcopter"	6th to 7th October 2015	Two days
7	Workshop on "Awareness about and Importance of Aptitude Test", By: Mr. Rishi Chourasia, Founder and Director, Online Vikalp Education, Mumbai and Mr. Anant Farkade, Director, Online Vikalp Education, Nagpur	08th October, 2015	One day
8	Industry Visit to RGen technology, SHATAM technologies Solutions, Nagpur.	05th November, 2015	One day
9	45th ISTE Annual National Convention and International Conference on "Challenges & Opportunities in Technical Education in the era of Sustainable Development"	09th , 10th and 11th January, 2016	Three days
10	AMCAT Awareness Programme By: Mr. Zee Ali, Head Institute Relationship, West Region, Aspiring Mind Assessments Pvt. Ltd., New Delhi.	09th March, 2016	One day
11	Expert Talk on "National and International Industry's perspectives and expectations from Engineering Education", By:Mr. Vikas Gadre Ex. Director General at Bombay Chamber of commerce and Industry.	14th May, 2016	One day

	Year 2014-15		
1	**Seminar** on **"Data Ware House and Web Mining"**, By: Zuber Qurasi, Escurve Solution India Pvt. Ltd, Akola	03rd February, 2015	One day
2	**Discussion for Idea Incubation** Industry R & D By: Mr. Gadre, Mr. Patankar, Mr. Jakate, Mr. Kajwadkar	25 & 26 April 2015	Two days
3	**Discussion for Idea Incubation** Industry R & D By: Mr. Gadre, Mr. Patankar, Mr. Jakate, Mr. Kajwadkar	25 & 26 April 2015	Two days
	Year 2013-14		
1.	Techno Buzz Talk on, 'Four Absolutes of Quality Management' By: Dr. V. R. Katkhede, Professor MBA	29th June, 2013	One day
2.	Seminar on "Technical Write Up and Presentation of Seminar", By: Dr. B.N. Jajoo (Tech. Advisor)	18th July, 2013	One day
3.	Seminar on "Software Testing", By: Ms. Neelima Giri, STQL Education Pvt. Ltd.	19th July, 2013	One day
4.	Seminar on "Guidance on Academic Project", By: Mr. Ranjan Pani (Pearson Education Services Pvt. Ltd.)	22nd July, 2013	One day
5.	Workshop on "Advance Intelligence Robotics" in association with UV Softs Technologies, New Delhi and Pravega Indian Institutes of Sciences, Bangalore	05th & 06th Aug, 2013	Two days
6.	"National Network Security Championship for Computer Machinery", By: Indian Institute of Technology, New Delhi.	03rd & 04th Aug, 2013	Two days
7.	Workshop on "Advanced Intelligence Robotics"	05th Aug, 2013	One day
8.	Seminar on "Computer Languages", By: Mr. Sachin Shukre, Seed InfoTech Pune.	06th Aug, 2013	One day

9.	Conference on "Green Technology" Theme: Scientific & Engineering. Solutions to Environmental Issues in association with Institute of Engineers, Amravati, Satpura Foundation, Kirloskar Vasundara, Nature conservation Club, Indian Water Works Association.	02nd October, 2013	One day
10	STTP on 'Image Processing, Artificial Intelligence and Its Applications".	18th - 27th November, 2013	Two weeks
11	Awareness Programme on 'Cyber Crime', By: Mr. Manish Kumar, Vioal E-Learning Pvt. Ltd.	29th November, 2013	One day
12	Workshop on "Robotics"	10th March, 2014	One day
13	Workshop on "PCB Design"	21 & 22 Aug, 2014	Two days
Year 2012-13			
1.	Project Exhibition/Competition on "Engineering in Sports'' at Global Conference Amravati	15th -17th January, 2013	Two days
2.	"Awareness about Green Glory Foundation and Membership Campaign for NGO", By: Mr. Vaishnav Sunil Kadu, President, Green Glory Foundation (NGO), Amravati	18th February, 2013	One day
3.	"Conducted Research Aptitude Assessment Test for MBA and BE Final Year Students", By: Aspiring Minds Assessment PVT. LTD.	11th and 12th Aug, 2012	Two days
4.	"AGSTS Contest by Apropos Gumption Level 1 Aptitude & Technical online test"	30th Sept and 1st October 2012	Two days
5.	"Conduction of Work Place Inventory for Professionals and Thinking Skill Test Online", By: Eskillat Academy, Hyderabad.	26th Sept to 10th October 2012	Two weeks
6.	Workshop on "Embedded System"	24th Sept, 2012 to 6th October, 2012	Two days

1.1.6 **What are the contributions of the institution and/or its staff members to the development of the curriculum by the University? (Number of staff members/departments represented on the Board of Studies, student feedback, teacher feedback, stakeholder feedback provided, specific suggestions etc.**

Contributions of the Institution's staff members to the development of the curriculum by the University are mentioned in table 1.1.6 below.

Table 1.1.6 Members of BOS of affiliating University/Head of Department/Invitees

Name of Faculty	Subject/Course	Contributions	Remark
Dr. A. B. Marathe	Chemical Engineering./Chemical Tech./polymer Tech.	BOS Member	Major contribution to renewal of curriculum and new development
		ISTE National Convention (Stake holder feedback)	The Institute has submitted the points of discussion from panel discussion regarding curriculum by industry delegates held during ISTE conference
Dr. U.A. Khirsagar	Biomedical Engineering.	BOS Member	Contribution Since inception of BOS
	Electronics & Telecommunication Engineering.	Invited member	Invited member/Subject Expert
Dr. A. B. Raut	Computer Sci. & Engineering.	BOS Member	Contributed for inclusion of advances in curriculum
Dr. M. E. Shelke	Applied Science & General Engineering.	BOS Member	Contributed for Curriculum design
Dr. P. L. Ramteke	Information Technology	Invited Member& feedback	Suggestion regarding changes in existing Syllabus
Dr. R. R. Keole	CS & IT	Invited Member for curriculum design by BOS	Contribution to revise Syllabus
Prof. V. L. Agrawal	Electronics & Telecommunication Engineering.	Invited Member for curriculum design by BOS	Contribution to revise Syllabus
Prof. P.M. Kakde	Electronics & Telecommunication Engineering.	Invited Member for curriculum design by BOS	Contribution to revise Syllabus

- Most of the senior faculty of Institution contributed as invited member for workshops on Curriculum design organized by BOS/ University.

- Introduction of elective subjects by University through the contribution of Institution and staff members

- Curriculum design of three electives in Sports management, Pharmaceutical Management and Healthcare Management alongside the conventional Marketing, finance and HR

1.1.7 Does the institution develop curriculum for any of the courses offered (other than those under the purview of the affiliating university) by it? If 'yes', give details on the process ('Needs Assessment', design, development and planning) and the courses for which the curriculum has been developed

Yes, the Process of Curriculum Development is as:

Needs assessment:

1. Feedback from recruiter/report of industry association NASCOM, FICCI etc. about low employability of graduate Engineering
2. Assessment of the gap between Industry expectation and University curriculum by conducting survey, through Industry visit by HODs and TPO at International/National /State and university level
3. To bridge up gap of Core Technical Area (CTA) & other employability attributes

Design & Development of the course

- To develop course contents in consultation with Industry for the identified core areas of Software Testing, Remote Infrastructure Monitoring & Management (RIMM), Information Security, Software development, VLSI, Embedded System & IOT, Automation Designing & Drafting
- Validation of course contents from other related Industry
- Development of course contents and its implementation for other employability attributes like Communication skill, soft skill and aptitude

Course Planning

- Planning of implementation of courses design with the help of interested college faculty, resource person from industry and professional trainers
- Assessment of trainees by internship, mock placement tests
- Apart from Engineering courses, for MBA students, college has initiated to develop and design - Diploma in Sports Management Program (DSMP) for the National Institute of Sport Sciences, Colombo – Sri Lanka (NISS – Working under the Ministry of Sports, Govt. of Sri Lanka) along with HVPM's Degree

College of Physical Education, Amravati and conducting it from October, 2016 to March, 2017 on an Online and Offline basis.

1.1.8 How does institution analyze/ensure that the stated objectives of curriculum are achieved in the course of implementation?

Institute analyzes the stated objectives of curriculum (course wise) are achieved in the course of implementation through:

1. Student's Employability enhancement
2. Selection of students at University, State, National level competitions
   Like Avishkar, Hackethan organized by University
3. Gold Medal, Merit ranking and other academic achievements
4. Awards /Rewards to students, faculties and college
5. Improvement in soft skills, problem solving attitude and confidence
6. Core value added attributes among students
7. Students participation in social activities like NSS, tree plantation, Srujan (a group of orphanage and old-age home), students forum, Red Ribbon Club , blank page bank, Blood donation, publication of annual magazine with award

1.2 Academic Flexibility

1.2.1 Specifying the goals and objectives give details of the certificate/diploma/skill development courses etc., offered by the institution

Objective: To enhance employability (livelihood) of students

Goals   : 1. To develop Communication Skill and Soft Skills

2. To imbibe Professional etiquettes

3. To impart technical skills in domain areas, to expected level of Industries from fresh graduate engineers

Details of the skill development courses, offered by the Institution through

1. **Core Technical Area (CTA) based Education**
   - Teaching- Learning and Training to the students selected in CTA
   - Internships
   - Live / Hi-Tech / High end Projects in Industries

- More and regular visits to the Industries for being exposed to best and latest Industry practices
- Guest Lectures / Technical Seminars / workshops by Industry experts, on latest and emerging technologies
- Soft skills , Finishing School , Corporate Culture / Training by Industry experts
- Industry oriented Paper presentations
- Supply of books / technical papers to the library on latest findings / technologies / innovations
- Active participation in Technical events / festivals by the Industry leaders

Develop and equip competitive and innovative spirit among the students by:

- Organizing competitions conducted by Industry experts
- Inter College technical and other competitions
- Motivating the Companies to encourage excellence among students by awards / scholarships

2. **Telecom Terminal Equipment Application Developer (Android)** - Under the PMKVY of Govt. of India: -

   This program is aimed at training candidates for the job of a "Telecom Terminal Equipment Application Developer (Android)", in the "Telecom" sector/industry and aims at building hardware and software related competencies on Android, iPhones, Blackberry and Windows platform based devices.

1.2.2 Does the institution offer programmes that facilitate twinning /dual degree? If 'yes', give details.

No

1.2.3 Give details on the various institutional provisions with reference to academic flexibility and how it has been helpful to students in terms of skills development, academic mobility, progression to higher studies and improved potential for employability. Issues may cover the following and beyond:

- **Range of Core/Elective options offered by the University and those opted by the college**

- **Choice Based Credit system and range of subject options**

- **Courses offered in modular form**

- **Credit transfer and accumulation facility**

- **Lateral and vertical mobility within and across programmes and courses**

- **Enrichment courses**

Academic flexibility refers to freedom in the use of the time-frame of the courses, horizontal mobility, inter-disciplinary options and others facilitated by curricular transactions. Supplementary enrichment programmes introduced as an initiative of the college. The credit system and choice offered in the curriculum in terms of programme, curricular transactions and time-frame options are also considered in this key aspect. Following are the provision with respect to academic flexibility:

i) Core / elective subject offer

ii) Skill Sharpening School programme

iii) Student training outside during academic if needed

iv) Leave sanctions for GATE examination preparation

v) Promote internship programme to potential for employability

vi) Revision of syllabi in Board Of Studies of SGB Amravati University

a) **Range of Core/Elective options offered by the University and those opted by the College**

The lists of various subjects offered as electives by SGB Amravati University and those opted by college are given below.

The College offers undergraduate studies in four disciplines namely,

1. Computer Science & Engineering

2. Electronics and Telecommunication Engineering

3. Information Technology

4. Mechanical Engineering and

5. MBA

Depending on the syllabus set by the University, Board of Studies for various branches, electives are offered to the students. The faculty states the importance of electives subject and their learning objectives and scope. They are asked to submit their choices and preferences. Then depending on the number of students opting a electives, subject are offered and taught.

List of electives for various undergraduate branches as offered by SGB Amravati University:

University syllabus has generally following structure:

Basic science & humanities	---	08.33%
Applied Mathematics	---	10.42%
Core Subjects	---	66.66%
Management Subjects	---	04.16 %
Electives/ free elective subjects	---	10.42 %

Students can opt any of the professional elective subject of its own Department in so many semesters and has to opt an free elective subject of other than his/her parent Department or Course offer by Other Department.

Table 1.2.3(a) Details of Elective subjects offered by the University

Sr. No:	Academic Year	Semester	Free Elective Subjects Offered
For UG courses			
B.E. (Computer Science &Engineering)			
1	2016-2017	V	Data structures & Algorithms
		V	Data communication and Networking
		VI	Data base Management system
		VI	Software Project Management
2	2015-2016	V	Data structures & Algorithms
		V	Data communication and Networking
		VI	Data base Management system
		VI	Software Project Management
3	2014-2015	V	Data structures & Algorithms
		V	Data communication and Networking
		VI	Data base Management system
		VI	Software Project Management
4	2013-2014	V	Data structures & Algorithms
		V	Data communication and Networking
		VI	Data base Management system
		VI	Software Project Management
5	2012-2013	V	Data structures & Algorithms
		V	Data communication and Networking
		VI	Data base Management system
		VI	Software Project Management
B.E. (Electronics and Telecommunication Engineering)			
1	2016-2017	V	Consumer Electronics
		V	Fiber Optics

		VI	Introduction to wireless Technology
		VI	Electronic test instrument : Analog and Digital
2	2015-2016	V	Consumer Electronics
		V	Fiber Optics
		VI	Introduction to wireless Technology
		VI	Electronic test instrument : Analog and Digital
3	2014-2015	V	Consumer Electronics
		V	Fiber Optics
		VI	Introduction to wireless Technology
		VI	Electronic test instrument : Analog and Digital
4	2013-2014	V	Consumer Electronics
		V	Fiber Optics
		VI	Introduction to wireless Technology
		VI	Electronic test instrument : Analog and Digital
5	2012-2013	V	Consumer Electronics
		V	Fiber Optics
		VI	Introduction to wireless Technology
		VI	Electronic test instrument : Analog and Digital

B.E. (Information Technology)

Sr. No:	Academic Year	Semester	Professional/ Free Elective Offered
1	2016-2017	V	Introduction to Computer Network
		V	Ethics & Practices
		VI	E-Commerce
		VI	Knowledge Management
2	2015-2016	V	Introduction to Computer Network
		V	Ethics & Practices
		VI	E-Commerce
		VI	Knowledge Management
3	2014-2015	V	Introduction to Computer Network
		V	Ethics & Practices
		VI	E-Commerce
		VI	Knowledge Management
4	2013-2014	V	Introduction to Computer Network
		V	Ethics & Practices
		VI	E-Commerce
		VI	Knowledge Management
5	2012-2013	V	Introduction to Computer Network
		V	Ethics & Practices
		VI	E-Commerce
		VI	Knowledge Management

B.E. (Mechanical Engineering)

Sr. No:	Academic Year	Semester	Elective Offered
1	2016-2017	V	Production Management
		V	Project Management
		VI	Automobile Engineering
		VI	Non- Conventional Energy System
		VI	Energy Management
2	2015-2016	V	Production Management
		V	Project Management
		VI	Automobile Engineering
		VI	Non- Conventional Energy System
		VI	Energy Management
3	2014-2015	V	Production Management
		V	Project Management
		VI	Automobile Engineering
		VI	Non- Conventional Energy System
		VI	Energy Management
4	2013-2014	V	Production Management
		V	Project Management
		VI	Automobile Engineering
		VI	Non- Conventional Energy System
		VI	Energy Management
5	2012-2013	V	Production Management
		V	Project Management
		VI	Automobile Engineering
		VI	Non- Conventional Energy System
		VI	Energy Management

B.E. (Computer Science &Engineering)

Sr. No:	Academic Year	Semester	Professional Elective Subjects
1	2016-2017	VII	Computer graphics
		VII	Multimedia Technology
		VII	Web Engineering
		VII	Human computer interface
		VIII	Distributed computing
		VIII	Mobile computing
		VIII	Soft computing
		VIII	Network security
2	2015-2016	VII	Computer graphics
		VII	Multimedia Technologies
		VII	Web Engineering
		VII	Human computer interface
		VIII	Distributed computing
		VIII	Mobile computing

		VIII	Soft computing
		VIII	Network security
3	2014-2015	VII	Computer graphics
		VII	Multimedia Technology
		VII	Web Engineering
		VII	Human computer interface
		VIII	Distributed computing
		VIII	Mobile computing
		VIII	Soft computing
		VIII	Network security
4	2013-2014	VII	Computer graphics
		VII	Multimedia Technology
		VII	Web Engineering
		VII	Human computer interface
		VIII	Distributed computing
		VIII	Mobile computing
		VIII	Soft computing
		VIII	Network security

B.E. (Electronics and Telecommunication Engineering)

Sr. No:	Academic Year	Semester	Professional Elective Subjects
1	2016-2017	VII	VLSI Design
		VII	Computer organization
		VII	Artificial intelligence
		VII	Satellite and optical fiber communication
		VII	Audio &Video engineering
		VIII	Biomedical Engineering
		VIII	Digital image processing
		VIII	ARM system development and design
		VIII	Embedded and real time system
		VIII	Smart sensors
2	2015-2016	VII	VLSI Design
		VII	Computer organization
		VII	Artificial intelligence
		VII	Satellite and optical fiber communication
		VII	Audio &Video engineering
		VIII	Biomedical Engineering
		VIII	Digital image processing
		VIII	ARM system development and design
		VIII	Embedded and real time system
		VIII	Smart sensors
3	2014-2015	VII	VLSI Design
		VII	Computer organization
		VII	Artificial intelligence
		VII	Satellite and optical fiber communication
		VII	Audio &Video engineering
		VIII	Biomedical Engineering
		VIII	Digital image processing

		VIII	ARM system development and design
		VIII	Embedded and real time system
		VIII	Smart sensors
4	2013-2014	VII	VLSI Design
		VII	Computer organization
		VII	Artificial intelligence
		VII	Satellite and optical fiber communication
		VII	Audio &Video engineering
		VIII	Biomedical Engineering
		VIII	Digital image processing
		VIII	ARM system development and design
		VIII	Embedded and real time system
		VIII	Smart sensors

B.E. (Information Technology)

Sr. No:	Academic Year	Semester	Professional elective Subjects
1	2016-2017	VII	Modeling & simulation
		VII	Artificial intelligence and expert system
		VII	Multimedia Technologies
		VIII	Data water housing and data mining
		VIII	Web commerce
		VIII	Cloud computing
		VIII	Neural network and fuzzy logic
2	2015-2016	VII	Modeling & simulation
		VII	Artificial intelligence and expert system
		VII	Multimedia Technologies
		VIII	Data water housing and data mining
		VIII	Web commerce
		VIII	Cloud computing
		VIII	Neural network and fuzzy logic
3	2014-2015	VII	Modeling & simulation
		VII	Artificial intelligence and expert system
		VII	Multimedia Technologies
		VIII	Data water housing and data mining
		VIII	Web commerce
		VIII	Cloud computing
		VIII	Neural network and fuzzy logic
4	2013-2014	VII	Modeling & simulation
		VII	Artificial intelligence and expert system
		VII	Multimedia Technologies
		VIII	Data water housing and data mining
		VIII	Web commerce
		VIII	Cloud computing
		VIII	Neural network and fuzzy logic
5	2012-2013	VII	Modeling & simulation
		VII	Artificial intelligence and expert system

		VII	Multimedia Technologies
		VIII	Data water housing and data mining
		VIII	Web commerce
		VIII	Cloud computing
		VIII	Neural network and fuzzy logic

B.E. (Mechanical Engineering)

Sr. No:	Academic Year	Semester	Professional elective Subjects
1	2016-2017	VII	Non- Conventional energy system
		VII	Tool Engineering
		VII	Artificial intelligence & expert system
		VII	Mechatronics
		VIII	Automobile engineering
		VIII	Production planning and control
		VIII	Management information system
		VIII	Advanced manufacturing system
		VIII	Refrigeration & air conditioning
		VIII	Machine tool design
		VIII	Finite element method
		VIII	Robotics
2	2015-2016	VII	Non- Conventional energy system
		VII	Tool Engineering
		VII	Artificial intelligence & expert system
		VII	Mechatronics
		VIII	Automobile engineering
		VIII	Production planning and control
		VIII	Management information system
		VIII	Advanced manufacturing system
		VIII	Refrigeration & air conditioning
		VIII	Machine tool design
		VIII	Finite element method
		VIII	Robotics
3	2014-2015	VII	Non- Conventional energy system
		VII	Tool Engineering
		VII	Artificial intelligence & expert system
		VII	Mechatronics
		VIII	Automobile engineering
		VIII	Production planning and control
		VIII	Management information system
		VIII	Advanced manufacturing system
		VIII	Refrigeration & air conditioning
		VIII	Machine tool design

		VIII	Finite element method
		VIII	Robotics
4	2013-2014	VII	Non- Conventional energy system
		VII	Tool Engineering
		VII	Artificial intelligence & expert system
		VII	Mechatronics
		VIII	Automobile engineering
		VIII	Production planning and control
		VIII	Management information system
		VIII	Advanced manufacturing system
		VIII	Refrigeration & air conditioning
		VIII	Machine tool design
		VIII	Finite element method
		VIII	Robotics

For PG courses

M.E. (EXTC)

Sr. No.	Academic Year	Semester	Professional Elective Subjects
01	2014-2015 onwards	I	Real time embedded system
			Data compression
			Artificial Intelligent System
			Cryptography & Network security
		II	Mobile Computing
			Communication System Design
			Optical Networks
			Speech & audio Processing
02	2012-2013 onwards	I	Real time embedded system
		II	Mobile Computing
			Optical Network

M.E. (CSIT)

Sr. No.	Academic Year	Semester	Professional Elective Subjects
01	2012-2013 onwards	I	Expert System Design & Intelligent System
			Algorithmics
			Information Technology Management
		II	Advanced Compiling Techniques
			Mobile Computing
			Digital Media Development

M.E. (CSE)

Sr. No.	Academic Year	Semester	Professional Elective Subjects
01	2012-2013 onwards	II	Mobile computing
			Network Security
			Computer Vision & Image processing

MBA

Sr. No.	Academic Year	Semester	Elective Subjects
01	2012-2013 onwards	III	Indian Financial System
			Banking System
			Working Capital Management
			International Financial Management
			Investment Science
			Risk Management
			Sales & Distribution Management
			Agro Business Marketing
			Advertising Management
			Consumer Behavior
			Brand Management
			Human Resource Development
			Management of Training & Development
			Performance Management
			Purchasing and Materials Management
			Production Planning and Control Ergonomics
			World Class Manufacturing Management
			Costing For Production
			Principles and Practices of Safety
			Brand Promotion & Marketing in Pharmaceutical Industry
			Customer Behavior in Pharmaceutical Industry
			Production Management in Pharmaceutical Industry
			Material Management in Pharmaceutical Industry
			Sales & Distribution Management in Pharmaceutical Industry
			Pharmaceutical Regulatory Environment
			Fundamentals of Management of Sports
			Human Resource Management for Sports
			Sports Marketing
			Financial Management And Economics for Sports
			Sports Facilities Management
			Sports Media Management
			Financial Decision Analysis
			Security Analysis And Portfolio
			Financial Derivatives
			Management Of Financial Services
			Foreign Exchange Market
			Insurance Management
			Sales Promotion Management

			Marketing Of Services
		IV	Marketing for Non-Profit Organizations and Social Services
			Retail Marketing
			Rural Marketing
			International Marketing Environment
			Human Behavior at Work Place
			Organizational Development and Intervention Strategies
			Management Of Group Process
			Corporate Leadership Management
			Knowledge Management
			International HRM
			Service Operations Management
			Applied Operations Research
			Transportation Management
			Total Quality Management
			Industrial Health And Disaster Management
			Project Management
			Health Care Management & Administration
			Human Resource Management for Health Care
			Management of Clinical Services
			Economics of Health Care Management
			Information Technology in Health Care
			Hospital Support Services

b) **Choice Based Credit System and range of subject options:**

Not yet offered by SGB Amravati University, Amravati

c) **Courses offered in modular form:**

All courses offered by the institute are in the modular form. Each paper contains six units.

d) **Credit transfer and accumulation facility:**

No, the credit transfer system does not exist in SGB Amravati University, Amravati

e) **Lateral and vertical mobility within and across programmes and courses:**

Lateral entries permitted for students who complete diploma to pursue their engineering degree from second year.

Also vertical mobility provided to students to change their branch in BE second year on basis of availability of vacancy as per merit basis.

f) Enrichment courses:

All departments of the institute organize the different enrichment programmes like industrial visits, technical workshops, industrial training (Internship), etc.

1.2.4 Does the institution offer self-financed programmes? If yes, list them and indicate how they differ from other programmes, with reference to admission, curriculum, fee structure, teacher qualification, salary etc.:

Yes, as the Institute falls under the category of unaided private Institute, all programmes are self-financed and all programmes are approved by AICTE New Delhi & DTE Maharashtra State and affiliated to SGB Amravati University, Amravati. The details of programme offered given in table 1.2.4 below.

Table 1.2.4: Details of programs offered by the Institute

S. N	Programme	Admission	Curriculum	Fee Structure	Teacher Qualification	Salary
1	B. E. All branches	Admissions are conducted according to Admission Regularity Authority	Curriculum for each programme is designed at Board of Studies level, SGB Amravati University, Amravati according to the University norms.	HVPM College of Engineering & Technology Amravati. The tuition fee is as per Fee regularity Authority (SHIKSHAN SHULKA SAMITI); SGB Amravati University rules and is subject to revision. The revised fee will be binding on the candidates. Details are available on www.sssamiti.org	The Institution has appointed well qualified, experienced faculty members who possess good subject knowledge. Appointments are done on the basis qualification prescribed by AICTE. www.aicte-india.org	The institute pay salary as per AICTE norms of pay scale.
2	M. E. All branches					
3	M.B.A.					

1.2.5 Does the College provide additional skill oriented programmes, relevant to regional and global employment markets? If yes provide details of such programme and the beneficiaries.

Yes,

The Institution provides additional skills orientation programmes:

Core Technical Competencies   :   100-120 Students per year
Soft Skill   :   300 Students per year
Communication Skill and Personality development programme: 300 Students
PMKVY   :   25 students per batch of 3- month
(Refer details of point No. 1.1.7 for skill development courses)

All the activities presented in below table 1.2.5 are conducted under Training & Placement Department.

Table: 1.2.5 Additional Skill oriented programme & effort to supplement University Curriculum

Table No.1.2.5 (a): Details of industrial Visits organized by the Institution

S N	Name & Address of Company	Date of Visit	Beneficiary Student No.
Session - 2016-2017			
1	Persistent Systems, Nagpur	29th January 2016	20
2	Cyber Security Cell Crime Branch, Amravati	24th October 2016	25
Session 2015-2016			
1	Precision Automation & Robotics India Ltd. Pune	10th Sept 2015	15
2	Maitreyee IT Services Pvt. Ltd., Pune-Nagar Road, Pune	10th Sept 2015	15
3	Tungsten Information Management, Pune	11th Sept 2015	15
Session - 2014-2015			
1	Mastiff Solution Pvt. Ltd., Gulsshan Tower, Amravati	28th Aug 2014	21
2	Infocept, I.T., Nagpur, Maharashtra	8th November 2014	18
3	HCL Nagpur	30th December 2014	21
4	Softech Solutions Pvt. Ltd. Nagpur	18th December 2014	55
5	Sigma Electricals, Nagpur	18th December 2014	55
6	Novatech Soft. Pvt. Ltd.	18th December 2014	55
Session - 2013-2014			
1	Chips Software System	20th December 2013	65
2	Central Marine Fisheries Research Institute	20th December 2013	65

Table No.1.2.5 (b): Details of Guest Lectures conducted by the Institution

SN	Company Name & Address	Name of the Speaker	Date of Lecture	Beneficiaries No. of Student Participant	Topic/Title
Session 2016-2017					
1	Microsoft	Mandar Kulkarni	25th June 2016	70	Cloud computing
2	Kokan Corridor, Sci. & Tech, Pune	Ashok Saraf	24 to 26th June 2016		.net, android, business development, elect fundamental lab
3	Tata Motors	Sumit Malpani	17th July 2016	39	Presentation on CTA-10"Automobile component testing
4	Acit, Pune	Rohit Paradasani	16th July 2016	80	Networking
5	Gate Forum	umesh agrawal	19th July 2014	280	How to prepare for gate exam
6	Tata Motors	Sumit Malpani	16th July 2016	52	Analysis of fitment
7	Educate To Automate, Pune	Nitin Lokhande	7th July 2016	44	Automation Engineering
8	HVPM COET,	Pankaj Jaiswal	14th July 2016	89	Presentation on CTA CADD
9	S.R Academy	Chandak Shashank	22-Aug-2016	36	Cost optimization and construction project for MEP
10	CCIL	C Kajwadkar	24th Sept 2016	300	Cyber Security Awareness program
11	Risk Quotient Pvt.Ltd, Mumbai	Chaitanya Kunthe	24th Sept 2016	250	Cyber Security Awareness program
12	TCS	Girish Dandiga	1st & 2nd October 2016	140	TCS initiative Digital Impact Square – DISQ
13	Microsoft	Mandar Kulkarni	1st & 2nd October 2016	140	driving the Azure adoption across various business verticals
Session - 2015-2016					
1	Cognizant,Pune	Vaibhav Kalane	4th March 2016	10	Career Orientation

2	Sunsoft Sol. & ConsultantP vt. Ltd	Rajiv Ranjan	5th March 2016	110	Company Awareness
3	BSNL	G.B. Khatri	20th March 2016	125	Government Opportunities & Aptitude Skill
4	Mnce Biz	Narayanan Ramanathan	May 14th 2016	30	On Campus projects
5	Bombay Chamber Of Commerce	Vikas Gadre	May 14th 2016	30	Domestic & International Industry's Perspective and expectations from Engineering education
6	ISRO	Nitin Ghatpande	10th January 2016	600	Special Talk on Mission on Mars (MOM)
7	Cebit, Mumbai	Brain Pereira	10th January 2016	30	The Role and Expectations of Industry in shaping Engineering Education.
8	TCS, Mumbai	Gajanan Palsule	10th January 2016	30	The Role and Expectations of Industry in shaping Engineering Education.
9	Persistent System, Nagpur	Shekhar Patankar	10th January 2016	30	The Role and Expectations of Industry in shaping Engineering Education.
10	Aditya Birla Science And Tech. Ltd	Vilas Tathavadkar	10th January 2016	25	The Role and Expectations of Industry in shaping Engineering Education.
11	Global Infomart, Mumbai	Babu Nair	10th January 2016	25	The Role and Expectations of Industry in shaping Engineering Education.
12	Vijay Nirman Constructio ns P Ltd	Anil Mahalle	10th January 2016	15	The Role and Expectations of Industry in shaping Engineering Education.
13	BHEL Bhopal	T.G Chauragade	10th January 2016	20	The Role and Expectations of Industry in shaping Engineering Education.

14	Mahindra & Mahindra Ltd., Nashik	Hiraman D. Aher	10th January 2016	20	The Role and Expectations of Industry in shaping Engineering Education.
15	Lyncbiz Corporation	Ravi Eppaturi	10th January 2016	18	The Role and Expectations of Industry in shaping Engineering Education.
16	Surya Lakshmi Cotton Mills Ltd	Abhijiet Sen	10th January 2016	15	The Role and Expectations of Industry in shaping Engineering Education.
17	Thyssenkrpp Industrial Sol.Pvt Ltd, Mumbai	Parag V Chepe	10th January 2016	20	The Role and Expectations of Industry in shaping Engineering Education.
18	CCIL	Chittaranjan Kajwadkar	10th January 2016		The Role of Industry in shaping Engineering Education
19	Mnce Biz	Narayanan Ramanathan	13-Jun-16	8	Importance of Live Industry Projects
20	Sinhgad College of Engg. Pune	Vishram Bapat	22nd June 2016		Career Orientation
			Session - 2014-2015		
1	Mastiff Solution Pvt. Ltd. Amravati	Piyush Hande	5th July 2014	110	Internship Program at Mastiff Solution, Amravati for Final and 3rd year CS/IT Students
2	Seed Infotech, Pune	Somnath Shendage	11th July 2014	89	Importance of Global Certification
3	Pioneer Learning Sytems, Amravati	Shrikant Borgaonkar	5th July 2014	175	Resume Refinement session for Final Year Students of Batch 2015
4	HVPM COET, Amravati	A A Karmarkar	23rd to 25 th June 2014	275	Expectation Analysis with Class Profile and Activities for Batch 2015 Of Final Year Students of All Department of HVPM COET Amravati
5	Knowmax Solutions Sc. Opc. Pvt. Ltd. Nagpur	Laxman Hedaoo & Sagar Khuje	16th to 18th July 2014	207	Virtual Internship Program at Knowmax Solutions, Nagpur for all 3rd year

6	Pranav Systtech Pvt.Ltd, Pune	Shyam Patil & Dhruv,	19th July 2014	180	SAP Awareness Program for 3rd Year & Final Year Students of CS, IT & ENTC
7	HVPM COET, Amravati	A A Karmarkar, TPO	7th Aug 2014	165	Preparation for Campus Day
8	HVPM COET, Amravati	A A Karmarkar, TPO	12th Jan 2015 to 16th Jan 2015	175	Mock placement Interview
9	Bizsence solutions, Nagpur	Shirish Wakil,	14th March 2015	180	Industry Expectation from fresher
10	Technoltalk Engg, Pune	Sumit Malpani,	23rd March 2015	70	Career Options for Mechanical Engineering graduates
11	HVPM COET, Amravti	Dr. U.A. Belorkar	24-Jul-2014	200	VLSI technology
Session - 2013-2014					
1	ADP, Pune	Ms. Kalyani Bhokare	16th Aug 2013	117	Interaction with Batch 2014 In Perspective of Campus in ADP, Pune
2	Single Point H R System (I) Pvt. Ltd., Mumbai	Ashish Panjwani	5th Aug 2013	140	Careers Orientation for CS/IT Students
3	Single Point H R System (I) Pvt. Ltd., Mumbai	Ashish Panjwani,	6th Aug 2013	140	Careers Orientation for ENTC Students
4	HVPM COET, Amravati	Dr. U.A. Belorkar	8th Aug 2013	118	Introduction to VLSI & FPGA
Session 2012 – 2013					
1	HVPM COET, Amravati	A A Karmarkar,	27th to 28th June 2012	230	Expectation Analysis Of Final Year Students of Batch 2013
2	Pioneer Learning Sytems, Amravati	Shrikant Borgaonkar	4th to 8th Aug 2012	230	Resume Writing and GD PI Query Solving session for Final Year Students of Batch 2013

3	Green Glory Foundation (NGO), Amravati	Vaishnav Kadu	18th February 2013	120	Awareness about Green Glory Foundation and Membership campaign for NGO for all branch 2nd year students
4	Arvind Syntel, Pune	Sudhir Raju Mateti	23rd February 2013	90	Expectations of Telecom Industry from Engineering Graduates

Table No.1.2.5 (c): Details of workshops and training programmes conducted by the institution

SN	Company Name & Address	Name of Workshop/ Training	Trainer Name	Topic / Contents in Brief	Date	Benefi cieries No. of Student Participa nt
Session 2016-2017						
1	Pioneer Learning Systems	Soft Skill Training	Shrikant Borgaonkar	SST Soft skill Training	4th July 2016 To 30th Sept. 2016	60
2	JDM Technolog y, , Nagpur	FPGA Based image Processing & VLSI	Rajvardhan	VLSI,VHD L	15th June To 16th June 2016	35
3	MNCE Biz, Mumbai	Summer internship program on telecom system	Mrs. S.P Gawande,	Design on video for tracking game sever	13 June 2016	26
4	KLM Capital Pvt Ltd	Summer internship program	Narayan	Live project for 3rd Year	13th June 2016 to 13th July 2016	70
5	HVPM COET, Amravati	Preparing & working on Desktop/Laptop	Sameer Joshi	Microsoft word, excel, networking	23 & 24th July 2016	17
6	Risk Quotient Pvt.Ltd, Mumbai	Cyber security Awarness Program	Mrs.Deepa njali Kunthe	Need of Cyber security	24th Sept 2016	20
7	HVPM COET, Amravati	Awareness about cyber security	Kunal Kasture	How to set password what is social engineering attack	6th October 2016	100

8	Shree Trinity Infotech	Automation testing using selenium tool	Sayed Z Abbas	Automating Testing	26th October 2016	29
9	Prolofic system & technology	PLC skada	A. Agarkar	Solution Designing, Application Engineering	30th October 2016	30
			Session 2015-2016			
1	Creative Business Technique	Mock Placement Drive	Prakesh Shesh	Mock placement Interview, GD & PI	1st to 3 rd Aug 2015	332
2	HVPM COET Amravati	One Day Workshop	Pragati D. Chowhan	Software Development Approch	16th October 2015	47
3	ACE Career Academy	Syntel Campus pattern Practice session	--	Campus pattern	19th March 2015	140
4	Pioneer Learning Systems	English Communication Training	Shrikant Borgaonkar	English Communication Training (ECT)	3rd February to 27th March 2015	309
5	Concept Academy, Amravati	Aptitude Training Activity	Ashish Mithole	Aptitude Training	3rd February to 26th March 2015	343
6	Seed Infotech, Pune	Conducted Seed IT Idol Contest First Phase	Ghanasham Lokare	Technical Contest	26th & 28th February 2015	230 (BE)
7	Aspiring Minds	Conducted AMCAT Test	Zeshan Ali	Assesment Test	21st March 2015	128
8	HVPM COET, Amravati	Ice Breaking Session for Ist Year Students	Amol Karmarkar	Ice Breaking Session	15th & 23rd March 2015	72
9	Ready Tours and Travels Solution, Nagpur	Passport Camp for BE Students	--	Passport Camp	12th & 13th March 2015	127
			Session 2014-2015			
1	Pioneer Learning Systems	Soft Skill Training	Shrikant Borgaonkar	Soft Skill Training	1st July to 14th Sept 2013	280

2	Epapers Educational HuB LLP, Nagpur	Conducted Mock Placement drive for Batch 2015	Ketan Kapale	Mock Placement drive	12th, to 19th July 2014	211
3	Aspiring Minds	Conducted AMCAT Test	Zeshan Ali	Assessment Test	9th Aug 2014	119
4	Creative Business Techniques	Mock Placement Drive by MK Placement, Nagpur	Prakesh Shesh	Mock placement Interview, GD & PI	1st to 3rd Aug 2015	332
5	Aspiring Minds	Conducted AMCAT Test	Zeshan Ali	Assessment Test	9th Aug 2014	20
6	Smart data Enterprises, Nagpur	Mock Placement Drive	Mrs. Renu Khirodkar	Mock Placement Drive	4th October 2014	61
7	HVPM COET, Amravati	Company Awareness Program - CAP & Profile Awarness Program	A. A. Karmarkar	Company Awareness Program	6th to 13th October 2014	81
8	ACE Career Academy,	Syntel Campus pattern Practice session		Campus Pattern Practice session	19th March 2015	140 Students of BE Batch 2016
9	Pioneer Learning Systems	English Communication Training for 4th Semester Students of BE	Shrikant Borgaonkar	English Communication Training (ECT)	3rd February to 27th March 2015	309
10	Concept Academy, Amravati	Aptitude Training Activity	Ashish Mithole	Aptitude Training	3rd Feb. to 26th March 2015	343
11	Seed Infotech, Pune	Conducted Seed IT Idol Contest	Ghanasham Lokare	Technical Contest	26th& 28th February 2015	230 (BE)
12	Aspiring Minds	Conducted AMCAT Test	Zeshan Ali	Assessment Test	21st March 2015	128
13	HVPM COET, Amravati	Ice Breaking Session for Ist Year Students	Amol Karmarkar	Ice Breaking Session	15th & 23rd March 2015	72
14	Passion EON, Amravati	Aptitude Training Activity	Aditya Hele	Aptitude Training	22nd June to 23rd July 2015	190

15	Aspiring Minds	Conducted AMCAT Test	Zeshan Ali	Assessment Test	26th July 2015	172
16	Passion EON, Amravati	Refresher Training	Aditya Hele	Refresher Training	22nd Aug 2015 To 4th Oct 2015	147
17	Online Vikalp Education, Mumbai	Workshop on Awareness about and importance of Aptitude test	Anant Farkade & Rishi Chouraisa	Awareness about and importance of Aptitude test	8th October 2015	182
18	Passion EON, Amravati	Aptitude Training	Aditya Hele	Aptitude Training Activity	21st to 16th march 2016	230
19	Pioneer Learning Systems	English Communication Training	Shrikant Borgaonkar,	ECT	18th Jan. 2016 to 15th March 2016	296
20	Aspiring Minds	Conducted AMCAT Test	Zeshan Ali	Assessment Test	20th March 2016	110
21	Seed Infotech, Pune	Conducted Seed IT Idol Contest First Phase	Ghanasham Lokare	Technical Contest	3rd & 4th March 2016	364
Session 2013-2014						
1	Pioneer Learning Systems	Soft Skill Training	Shrikant Borgaonkar	Soft Skill Training (SST)	1st July to 15th Sept 2013	300
2	Single Point H. R. Mumbai	Conducted Mock Placement drive	Tuhin Mukharjee	Mock Placement drive	26th &27 Aug 2013	259
3	Rishicool, Mumbai	Group Discussion	Rahul Desai	Group Discussion session	15th July to 4th Sept 2013	259
4	Seed InfoTech, Pune	Conducted Seed IT Idol Contest	Ghanasham Lokare	Technical Contest	26th& 28th February 2014	419
5	Pioneer Learning	English Communication Training	S.Borgaonkar,	English Communication Training (ECT)	13th January to 3rd March 2014	320
6	Seed Infotech, Pune	Aptitude Training Activity	Pratiksha Tilekar	Aptitude Training Activity	6th Jan 2014 to 12th March 2014	260
7	HVPM COET, Amravati	Company Awareness Programme	Amol Karmarkar	Company Awareness Program	3rd to 20th Aug 2014	62

8	Aspiring Minds	Conducted AMCAT Test	Zeshan Ali	Assessment Test	17th & 18th Aug 2013	203
9	Aspiring Minds	Conducted AMCAT Test	Zeshan Ali	Assessment Test	21st March 2014	120
10	Educept, Bangalore	Advance Intelligence Robotics (Workshop)	Umashankar Yadav	Different types of Robots	5th & 6th Aug. 2013	250
11	SGBAU, Amravati	Image Processing, Artificial Intelligence and its application	Dr. Manza Dr Kulkarni Dr.C.N. Deshmukh Dr.Thakre	Process of Artificial Intelligence & image Development	18th to 27th Nov. 2013	75
12	Network Hub	Ethical Hacking	Manoj Rai	Data Security	2nd & 3rd Feb. 2013	50
Session 2012-2013						
1	Aspiring Minds Assessment PVT. LTD	Conducted AMCAT Re-Assessment Test for MBA	Zeshan Ali	AMCAT online Assessment test for all final year Students	11th & 12th Aug 2012	166
2	Single Point H. R. Mumbai	Conducted Mock Placement drive	Tuhin Mukharjee	Mock placement drive for all final year students	13th & 14th Aug 2012	168
3	Pioneer Learning Systems	Soft Skill Training by	Shrikant Borgaonkar ,	Soft skill training	1st July to 15th Sept 2012	300
4	Rishicool, Mumbai	Group Discussion and Personal Interview	Tuhin Mukharjee	Group Discussion session	1st July to 30th Aug 2012	200

Table No.1.2.5 (d): Details of Expert Talks conducted by the institution

Session 2016-2017

SN	Company Name & Address	Name of Expert	Date	No of Students Participant
1	Gate forum Pvt. Ltd, Amravati	Umesh Agrawal	19th July 2016	280
2	Technotalk Engineering ,Tata Motors	Sumit Malpani	16th July 2016	52
3	Educate to Automate, Behind Indian oil pump, University road, Pune	Nitin Lokhande	7th July 2016	44

| 4 | HVPM COET, Department of Mechanical Engg., Amravati | Pankaj Jaiswal | 14th July 2016 | 89 |

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SN	Company Name & Address	Name of Expert	Date	No of Students Participant
1	HVPM COET, Amravati	A.A. Karmarkar	27th to 31st July 2015	207

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SN	Company Name & Address	Name of Expert	Date	No of Students Participant
1	HVPM COET, Amravati	A.A. Karmarkar,	23rd to 25th June 2014	354
2	HVPM COET, Amravati	A.A. Karmarkar	7th Aug 2014	165
3	HVPM COET, Amravati	A. A. Karmarkar,	12th Jan 2015 to 16th Jan 2015	175

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SN	Company Name & Address	Name of Expert	Date	No of Students Participant
1	HVPM COET, Amravati	Dr. U. A. Belorkar	12th Jan. 2014	118

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SN	Company Name & Address	Name of Expert	Date	No of Students Participant
1	HVPM COET, Amravati	A A Karmarkar	27th to 28th June 2012	230

Table No.1.2.5 (e): Details of field visits organized by the institution

Session 2016-2017

SN	Company Name & Address	DATE	No of Students Participant
1	Tomoe, Amravati	19th October, 2016	25
2	Cyber Security Cell Crime Branch, Amravati	24th October, 2016	25

Session 2015-2016

SN	Company Name & Address	DATE	No of Students Participant
1	Netmagic RMM & Security(Mumbai)	19th Aug, 2015	6
2	Catrols (Mumbai)	19th Aug, 2015	6
3	Paledion Security, Mumbai	19th Aug, 2015	6
4	NSE-IT Ltd (Software testing & security)	20th Aug, 2015	6
5	NIT Consulting	20th Aug, 2015	6
6	NSDL trademode	21st Aug, 2015	6
7	Desai Haribhakti	21st Aug, 2015	6
8	Covergold MIDC	22nd Aug, 2015	6

Session 2014-2015

SN	Company Name & Address	DATE	No of Students Participant
1	SRS Infosystems™ ,Nagpur	5th Aug, 2014	5
2	Percept Web Solution, Nagpur, Maharashtra 440013	5th Aug, 2014	5
3	Knowmax Software Pvt. Ltd. Nagpur, Maharashtra 440010	5th Aug, 2014	5
4	Infocept, Parsodi, Nagpur, Maharashtra	5th Aug, 2014	5

Session 2013-2014

SN	Name & Address of Company	Date of Visit	No of Faculty Visited	No of Students Visited
1	Chips Software System	20th December 2013	5	65
2	Central Marine Fisheries Research Institute	20th December 2013	5	65

1.2.6 **Does the University provide for the flexibility of combining the conventional face-to-face and Distance Mode of Education for students to choose the courses/combination of their choice" If „yes", how does the institution take advantage of such provision for the benefit of students?**

No

1.3   Curriculum Enrichment

The Institution transfer curriculum frame work as per SGB Amravati University, Amravati. In which the main focus is on the student attributes and their holistic development in multiple skills and qualities. For curriculum enrichment, appropriate measures for promoting innovations in teaching – learning process, inter-disciplinary studies and research are inculcated.

1.3.1   Describe the efforts made by the Institution to supplement the University's Curriculum to ensure that the academic programmes and Institution's goals and objectives are integrated?

Following efforts are made by the Institution to supplement the university's curriculum to integrate University curriculum, Institution's goals and objectives as:

1. Periodic Industrial visits and tours are arranged for the enrichment of student's practical knowledge.
2. Guest lectures are being conducted to create awareness of outside world and to have effective interaction with resource persons from various industries.
3. Faculty members also deliver contents beyond syllabus in theory as well as practical sessions.
4. Value education Programs are conducted for students.
5. Training in Soft Skills is organized for students.
6. Students are encouraged for training in industries and internship during vacation and also take up industry sponsored projects. Institute and departments take special efforts to strengthen industry-academic relations

Table No.1.3.1 Efforts made by the Institution to supplement the University's Curriculum (for faculty)

Table No.1.3.1 (a): Details of workshops conducted by the Institution

Session 2016-2017

S N	Company Name & Address	Name of Workshop/Trai ning	Trainer Name	Date	No of Faculty Particip ant	Participa ting Branches
1	Pioneer Learning Systems	Soft Skill Training	Shrikant Borgaonkar	4th July 2016 To 30th Sept 2016	14	CSE.ENT C,IT
2	JDM Technology , Nagpur	FPGA Based image Processing & VLSI	Rajvardhan	15th June To 16th June 2016	15	ENTC

3	MNCE Biz, Mumbai	SIP on telecom system	Mrs.S.P Gawande,	6/13/2016	26	CSE.ENTC,IT
4	KLM Capital Pvt Ltd	Summer internship program	Narayan	13th June 2016 to 13th July 2016	07	CSE.ENTC,IT
5	HVPM COET	Preparing & working on Desktop/Laptop	sameer Joshi	23& 24th july 2016	17	Mechanic al
6	Risk Quotient Pvt.Ltd,Mu mbai	Cyber security Awareness Program	Mrs.Deepan jali Kunthe	24th Sept 2016	20	CSE.ENTC,IT
7	HVPM COET	Awareness about cyber security	Kunal kasture	6th October 2016	10	CSE.ENTC,IT
8	Shree Trinity Infotech	Automation testing using selenium tool	Sayed Z Abbas	26th October 2016	12	CSE.ENTC,IT

Session 2015-2016

S N	Company Name & Address	Name of Workshop/Trai ning	Trainer Name	Date	No of Faculty Participant	Participa ting Branches
1	Passion EON, Amravati	Aptitude Training Activity	Aditya Hele	22nd June to 23rd July 2015	19	CSE.ENTC,IT
2	Aspiring Minds	Conducted AMCAT Test	Zeshan Ali	26th July 2015	17	CSE.ENTC,IT
3	passionEO N, Amravati	Refresher Training,	Aditya Hele	22nd Aug 2015 To 4th Oct 2015	14	CSE.ENTC,IT
4	Online Vikalp Education, Mumbai	Workshop on Awareness about and importance of Aptitude test	Anant Farkade & Rishi Chouraisa	8th October 2015	18	CSE.ENTC,IT
5	passionEO N, Amravati	Aptitude Training Activity	Aditya Hele	21st January 2016 to 16th march 2016	23	CSE.ENTC,IT
6	Pioneer Learning Systems	English Communication Training	Shrikant Borgaonkar,	18th January 2016 to 15th March	29	CSE.ENTC,IT

				2016		
7	Aspiring Minds	Conducted AMCAT Test	Zeshan Ali	20th March 2016	11	CSE.ENT C,IT
8	Seed Infotech, Pune	Conducted Seed IT Idol Contest	Ghanasham Lokare	3rd & 4th March 2016	10	CSE.ENT C,IT

Session 2014-2015

SN	Company Name & Address	Name of Workshop/ Training	Trainer Name	Date	No of Faculty Participant	Participating Branches
1	Pioneer Learning System, Amravati	Training for Industry Institute Interaction Program	Shrikant Borgaonkar,	4th July 2014	11	CSE.ENT C,IT
2	Pioneer Learning Systems	Soft Skill Training	Shrikant Borgaonkar,	1st July to 14th Sept. 2013	28	CSE.ENT C,IT
3	E-papers Educational HuB LLP, Nagpur	Conducted Mock Placement	Ketan Kapale	12th, 13th & 19th July 2014	21	CSE.ENT C,IT
4	Creative Business Techniques	Mock Placement Drive	Prakesh Shesh	1st to 3rd Aug 2015	33	CSE.ENT C,IT
5	Aspiring Minds Assessment PVT. LTD	Conducted AMCAT Test	Zeshan Ali	9th Aug 2014	31	CSE.ENT C,IT
6	Smart data Enterprises, Nagpur	Mock Placement Drive, Nagpur	Mrs. Renu Khirodkar,	4th October 2014	16	CSE.ENT C,IT
7	HVPM COET, Amravati	Company Awareness Program - CAP & Profile Awareness Program	A.A. Karmarkar	6th, 8th, 9th, 10th & 13th October 2014	18	CSE.ENT C,IT
8	HVPM COET, Amravati	One Day Workshop on Agile Software Development	Pragati D. Chowhan	16th October 2015	14	CSE.ENT C,IT

9	Pioneer Learning Systems	English Communication Training	Shrikant Borgaonkar,	3rd February to 27th March 2015	30	CSE.ENTC,IT
10	Concept Academy, Amravati	Aptitude Training	Ashish Mithole	3rd February to 26th March 2015	13	CSE.ENTC,IT
11	Seed Infotech, Pune	Conducted Seed IT Idol Contest	Ghanasham Lokare	26th & 28th February 2015	08	CSE.ENTC,IT
12	Aspiring Minds	Conducted AMCAT Test	Zeshan Ali	21st March 2015	12	CSE.ENTC,IT
13	HVPM COET, Amravati	Ice Breaking Session	A A Karmarkar	15th & 23rd March 2015	17	CSE.ENTC,IT

Session 2013-2014

SN	Company Name & Address	Name of Workshop/ Training	Trainer Name	Date	No of Faculty Participant	Participating Branches
1	Pioneer Learning Systems	Soft Skill Training	Shrikant Borgaonkar,	1st July to 15th Sept. 2013	16	CSE.ENTC,IT
2	Single Point H. R. Mumbai	Conducted Mock Placement Drive	Tuhin Mukharjee	26th & 27th Aug 2013	11	CSE.ENTC,IT
3	Rishicool, Mumbai	Group Discussion	Rahul Desai	15th July to 4th Sep.2013	13	CSE.ENTC,IT
4	Seed Infotech, Pune	Conducted Seed IT Idol Contest First Phase	Ghanasham Lokare	26th & 28th February 2014	19	CSE.ENTC,IT
5	Pioneer Learning	English Communication Training	Shrikant Borgaonkar,	13th January to 3rd March 2014	20	CSE.ENTC,IT

6	Seed Infotech, Pune	Aptitude Training Activity	Pratiksha Tilekar, Narendra Kulkarni, Ms.Jasmine Khan, Ms. Poonam Singh	6th Jan to 12th March 2014	26	CSE.ENTC ,IT
7	Aspiring Minds Assessment PVT. LTD	Conducted AMCAT	Zeshan Ali	21st March 2013	18	CSE.ENTC ,IT
8	HVPM COET, Amravati	Company Awareness Program	Amol Anil Karmarkar	3rd, 20th, 19th Aug 2014	14	CSE.ENTC ,IT
9	Aspiring Minds Assessment PVT. LTD	Conducted AMCAT Test	Zeshan Ali	17th& 18th Aug 2013	20	CSE.ENTC ,IT
10	Aspiring Minds Assessment PVT. LTD	Conducted AMCAT	Zeshan Ali	21st March 2014	12	CSE.ENTC ,IT
11	Net Hub, Nagpur	Ethical Hacking	Manoj Rai	2nd & 3rd Feb 2013	12	CSE.ENTC ,IT

Session 2012-2013

SN	Company Name & Address	Name of Workshop/ Training	Trainer Name	Date	No of Faculty Participant	Participating Branches
1	Aspiring Minds Assessment PVT. LTD	Conducted AMCAT	Zeshan Ali	11th and 12th Aug 2012	15	CSE,ENTC ,IT
2	HVPM COET, Amravati	Conduction of Faculty Development Program	Vijay Deshmukh	11th& 12th June 2012	17	CSE.ENTC ,IT
3	Single Point H. R. Mumbai	Conducted Mock Placement	Tuhin Mukharjee	13th& 14th Aug 2012	13	CSE.ENTC ,IT
4	Pioneer Learning Systems	Soft Skill Training	Shrikant Borgaonkar,	1st July to 15th Sept 2012	20	CSE.ENTC ,IT
5	Rishicool, Mumbai	Group Discussion and Personal	Tuhin Mukharjee	1st July to 30th Aug 2012	18	CSE.ENTC ,IT

Table No.1.3.1 (b): Details of Seminars conducted by the institution

Session 2016-2017

SN	Company Name & Address	Trainer Name	Date	No of Faculty Participant	Participating Branches
1	Gate forum pvt ltd, Amravati	Umesh Agrawal	19th July 2016	2	3rd & final
2	Technotalk Engineering, Tata Motors	Sumit Malpani	16th July 2016	3	3rd Year Mechanical
3	Educate to Automate, pune	Nitin Lokhande	7th July 2016	3	3rd Year Mechanical
4	HVPM COET, Dept of Mechanical	Pankaj Jaiswal	14th July 2016	3	3rd Year Mechanical

Session 2015-2016

SN	Company Name & Address	Trainer Name	Date	Participating Branches	No of Faculty Participant	Topic
1	HVPM COET, Amravati	A A Karmarkar, Asst. Prof and TPO	27th to 31 July 2015	CSE	05	Expectation Analysis with Final year Class Profile and Activites

Session 2014-2015

SN	Company Name & Address	Trainer Name	Date	Participating Branches	No of Faculty Participant	Topic
1	HVPM COET Amravati	A A Karmarkar,	23rd to 25th June 2014	CSE,ENTC, IT	05	Expectation Analysis with Class Profile
2	HVPM COET, Amravati	A A Karmarkar, TPO	7th Aug 2014	CSE,IT, ENTC	16	Preparation for Campus Day
3	HVPM COET, Amravati	A A Karmarkar, TPO	12th to 16th Jan 2015	CSE,IT, ENTC	17	Mock placement Interview

Session 2013-2014

SN	Company Name & Address	Trainer Name	Date	Participating Branches	No of Faculty Participant	Topic
1	HVPM COET, Amravati	Dr. U.A. Belorkar	12 Jan 2014	EXTC	20	Introduction to VLSI & FPGA

Session 2012-2013

SN	Company Name & Address	Trainer Name	Date	Participating Branches	No of Faculty Participant	Topic
1	HVPM COET, Amravati	A A Karmarkar,	26th & 28th June 2012	CSE, ENTC, IT	28	Expectation Analysis Of Final Year

Table No.1.3.1(c): Details of guest lecturers conducted by the institution

Session 2016-2017

SN	Company Name & Address	Trainer/Expert Name	Date	Participating Branches	No of Faculty Participant
1	Microsoft	Mandar Kulkarni	25th June 2016	3rd & final	10
2	Kokan corridor, science & technology, Pune university	Ashok Saraf	24 to 26th June 2016	3rd & final	29
3	Technotalk Engineering, Tata Motors	Sumit Malpani	17th July 2016	3rd Year Mechanical	3
4	ACIT, Pune	Rohit Paradasani	16th July 2016	3rd & final	4
5	Gate forum pvt ltd, Amravati	Umesh Agrawal	19th July 2014	3rd & final	2
6	Technotalk Engineering,Tata Motors	Sumit Malpani	16th July 2016	3rd Year Mechanical	3
7	Educate to Automate, Behind Indian oil pump, University road, Pune	Nitin Lokhande	7th July 2016	3rd Year Mechanical	3
8	S.R Academy s.r.Infracture, chandak construction	Chandak Shashank	22nd Aug. 2016	2nd year mechanical	3
9	CCIL	C Kajwadkar	24th Sept. 2016	2nd,3rd,final	40
10	Risk Quotient Pvt. Ltd, Mumbai	Chaitanya Kunthe	24th Sept. 2016	2nd,3rd,final	50
11	TCS	Girish Dandiga	1st & 2nd October 2016	3rd & Final CTA	30

12	Microsoft	Mandar Kulkarni	1st & 2nd October 2016	3rd & Final CTA	30
13	MNCE BIZ	Narayanan Ramanathan	1st & 2nd October 2016	3rd & Final CTA	30
14	Hackathon	Vijay Thakare Yash Kadakia Shomirondas Gupta. Gaurav Mishra Raviraj Doshi C. Kajwadkar	25&26-02-2017	3rd & Final CTA	05
15	Internet of Things	Vijay Gunti	27-02-2017 to 01-03-2017	EXTC	15

Session 2015-2016

SN	Company Name & Address	Trainer/Expert Name	Date	Participating Branches	No of Faculty Participant
1	Cognizant, Pune	Vaibhav Kalane	4th March 2016	ENTC	10
2	Sun SOFT Solutions & Consultancy Pvt. Ltd	Rajiv Ranjan	5th March 2016	ENTC	10
3	BSNL	G.B.Khatri	20th March 2016	ENTC	12
4	ISTE 2015	Nitin Gadkari	8th Jan 2016	All Branches	150

Session 2014-2015

SN	Company Name & Address	Trainer Name	Date	Participating Branches	No of Faculty Participant
1	Seedinfotech, Pune	Somnath Shendage	11th July 2014	CSE, IT,ENTC	18
2	Knowmax Solutions Sc. Opc. Pvt. Ltd. Nagpur	Laxman Hedaoo, ,	16th & 17th July 2014	CSE ENTC	27
3	Knowmax Solutions Sc. Opc. Pvt. Ltd. Nagpur	Sagar Khuje	18th July 2014	IT	08
4	Pranav Systtech Pvt.Ltd, Pune	Shyam Patil & Dhruv,	19th July 2014	CSE, IT, ENTC	18
5	HVPM COET, Amravati	A A Karmarkar,	7th Aug 2014	CSE, IT,	16

				ENTC	
6	HVPM COET, Amravati	A A Karmarkar,	12th Jan 2015 to 16th Jan 2015	CSE, IT, ENTC	17
7	Bizsence solutions, Nagpur	Shirish Wakil,	14th March 2015	CSE, IT, ENTC	18
8	Technoltalk Engineering, Pune	Sumit Malpani,	23rd March 2015	Mechanical	05

Session 2013-2014

S N	Company Name & Address	Trainer Name	Date	Participating Branches	No of Faculty Participant
1	Mastiff Solution Pvt. Ltd. Amravati	Piyush Hande	5th July 2014	CSE,IT	20
2	Seed infotech, Pune	Somnath Shendage	11th July 2014	CSE,IT, ENTC	18
3	Pioneer Learning Systems , Amravati	Shrikant Borgaonkar	5th July 2014	CSE,IT, ENTC	17

Session 2012-2013

S N	Company Name & Address	Trainer Name	Date	Participating Branches	No of Faculty Participant
1	Pioneer Learning Systems, Amravati	Shrikant Borgaonkar,	4th to 8th Aug 2012	CSE ENTC IT	30

Table No.1.3.1 (d): Details of Short Term Training Programme conducted by the institution:

Session 2016-2017

SN	Title of STTP	Date	No. of faculty attend	Approved or Sponsored (ISTE, IETE, Industry etc)
1	FPGA based Image Processing & VLSI	13th June 2016 to 22nd 2016	24	ISTE appr.
2	**Big Data analytics',** Resource Person : Mr. Tushar Kulkarni, MITU, Pune	15th Dec 2016 – 24th Dec 2016	25	ISTE appr.

Session 2014-2015

SN	Title of STTP	Date	No. of faculty attend	Approved or Sponsored (ISTE, IETE, Industry etc)
1	STTP on "Software Engineering" conducted by IEEE Society	23rd June 2014 to 3rd July 2014	20	ISTE appr.

Session 2013-2014

SN	Title of STTP	Date	No. of faculty attend	Approved or Sponsored (ISTE, IETE, Industry etc)
1	Image processing, artificial intelligence and its applications	18-27th Nov. 2013	25	ISTE appr.
2	Challenges in Environment Protection & Green Technology	21st to 25 April 2014	20	ISTE appr.

Table No.1.3.1 (e): Details of Field Visits organized by Institution

Session 2016-2017

SN	Name & Address of Company	Date of Visit	No of Faculty Visited	Participating Branches
1	Tomoe ,Amravati	19th Oct. 2016	1	CSE,IT
2	Cyber Security Cell Crime Branch, Amravati	24th Oct. 2016	1	CSE,IT

Session 2015-2016

SN	Name & Address of Company	Date of Visit	No of Faculty Visited	Participating Branches
1	Net magic RMM & Security(Mumbai)	19th Aug 2015	6	CSE/ IT/ TPO/ ENTC
2	Catrols (Mumbai)	19th Aug 2015	6	CSE/ IT/ TPO/ ENTC
3	Paledion Security, Mumbai	19th Aug 2015	6	CSE/ IT/ TPO/ ENTC
4	NSE-IT Ltd(Software testing & security)	20th Aug 2015	6	CSE/ IT/ TPO/ ENTC
5	NIT Consulting	20th Aug 2015	6	CSE/ IT/ TPO/ ENTC
6	NSDL trademode	21st Aug 2015	6	CSE/ IT/ TPO/ ENTC

| 7 | Desai Haribhakti | 21st Aug 2015 | 6 | CSE/ IT/ TPO/ ENTC |
| 8 | Covergold MIDC | 22nd Aug 2015 | 6 | CSE/ IT/ TPO/ ENTC |

Session 2014-2015

SN	Name & Address of Company	Date of Visit	No of Faculty Visited	Participating Branches
1	SRS Infosystems™ Pvt. Ltd., Nagpur	5th Aug 2014	5	CSE/ IT/ TPO
2	Percept Web Solution, Reet Villa, Nagpur, Maharashtra 440013	5th Aug 2014	5	CSE/ IT/ TPO
3	Knowmax Software Pvt. Ltd. Nagpur, Maharashtra 440010	5th Aug 2014	5	CSE/ IT/ TPO
4	Infocept, 11/1 I.T. Park, Nagpur, Maharashtra	5th Aug 2014	5	CSE/ IT/ TPO

Session 2013-2014

SN	Name & Address of Company	Date of Visit	No of Faculty Visited	Participating Branches
1	Chips Software System	20th Dec 2013	5	EXTC
2	Central Marine Fisheries Research Institute	20th Dec 2013	5	EXTC

Table No.1.3.1 (f): Details of Industrial Tours organized by the Institution

Session 2016-2017

SN	Name & Address of Company	Date of Visit	No of Faculty Visited	Participating Branches
1	Persistent Systems, Nagpur	29th Jan 2016	5	CSE,IT

Session 2015-2016

SN	Name & Address of Company	Date of Visit	No of Faculty Visited	Participating Branches
1	Precision Automation & Robotics India Ltd. Pune,	10th Sept 2015	2	ENTC / TPO
2	Maitreyee IT Services Pvt. Pune	10th Sept 2015	2	ENTC / TPO
3	Tungsten Information Management Pune	11th Sept 2015	3	CSE / IT / TPO
4	Inteliment Technologies India, Pune	11th Sept 2015	3	CSE / IT / TPO
5	Amdocs, Pune	11th Sept 2015	3	CSE / IT / TPO

6	ADP, IBM Campus, Fursungi, Pune	11th Sept 2015	3	CSE / IT / TPO
7	Insightant Technology Solutions Pvt. Ltd., Pune	12th Sept 2015	3	CSE / IT / TPO
8	Sungard Offshore Services Pune,	12th Sept 2015	3	CSE / IT / TPO
9	Survik Software Limited Pune,	12th Sept 2015	3	CSE / IT / TPO
10	Zensar Technologies, Pune,	12th Sept 2015	3	CSE , IT, TPO

Session 2014-2015

SN	Name & Address of Company	Date of Visit	No of Faculty Visited	Participating Branches
1	E-papers Inc., Nagpur, Maharashtra 440025	5th Aug 2014	5	CSE/ IT/ TPO
2	SRS Infosystems Nagpur	5th Aug 2014	5	CSE,IT
3	Mastiff solution Pvt. Ltd., Amravati	14th Aug 2014	15	CSE/ IT/ TPO
4	Global Logic Nagpur	19th Aug 2014	5	CSE,IT
5	Persistent System Ltd., Nagpur, Maharashtra 440022	19th Aug 2014	5	CSE/ IT/ TPO
6	Cryptex Technologies, Nagpur	19th Aug 2014	5	CSE/ IT/ TPO
7	Global Logic India Pvt. Ltd. Nagpur	19th Aug 2014	5	CSE/ IT/ TPO
8	Mastiff solution Pvt. Ltd., Amravati	28th Aug 2014	8	CSE / IT
9	Smart Data, Nagpur	25th Sept 2014	5	CSE,IT
10	Tungsten Information Management Pune	11th & 12th Sept 2014	3	CSE,IT
11	Infocept, Nagpur	8th Nov 2014	5	CSE , IT
12	HCL NAGPUR	30th Dec 2014	4	IT
13	Softech Solutions Pvt. Ltd. Nagpur	18th Dec 2014	4	EXTC,CSE
14	Sigma Electriclas Nagpur 4444016	18th Dec 2014	4	EXTC/CSE
15	Novatech Soft. Pvt. Ltd	18th Dec 2014	4	EXTC,CSE

 (Refer Table: 1.2.5 for Additional Skill oriented programme & effort to supplement University Curriculum)

1.3.2 What are the efforts made by the institution to enrich and organize the curriculum to enhance the experiences of the students so as to cope with the needs of the dynamic employment market?

In addition to the college effort to provide additional skill oriented programme to cope up with the needs of dynamic employment market (As given in 1.2.5) the institution has taken following efforts:

1. To organize University level, State level and national Level (ISTE) meeting, conventions, workshops with aim and objective as follows:
    i. Industry Expectation from technical Education (ISTE National convention).,AICTE chairman, directorate of technical Education, Vice Chancellors of Universities, Deans of faculty of Engineering & Technology, Large number of Industries from all domain where brought in one platform to deliberate, discuss and resolve to enrich curriculum to cope with the need of dynamic employment market.
    ii. Changes in Curriculum (University level)
    iii. Suggestion/Recommendation letter to ISTE, AICTE, University, State Govt. from   time to time
    iv. Institute takes feedback regarding curriculum from alumni, students, employers, industries & R/D organization.
    v. Faculty's opinion to enrich curriculum to enhance experience of students.
    vi. Feedback from various state holders has to conduct various events to design new   curriculum which support to improve other skills.
2. Members/ invited members from the Institution take up about feedback to University authority like BOS and try to enrich the curriculum.

1.3.3 Enumerate the efforts made by the institution to integrate the cross cutting issues such as Gender, Climate Change, Environmental Education, Human Rights, ICT etc., into the curriculum?

The present curriculum has integrated above mentioned issues through courses such as Environmental Engineering, Industrial Management, and Communication skills etc

Additionally the Institute takes efforts in two ways

1. To introduce the cross cutting issues into the curriculum of the university Through BOS & other authorities.

2. To integrate the above issues through the flexibility available in syllabus such as, topics of seminar and projects, activities of NSS etc.

3. The National Social Service (NSS) unit undertakes activities for making students sensitive towards societal issues such as Tree Plantation Programs, Blood Donation Camps, teaching rural children, adoption of Village and transformation into 'Nirmal Gram'.

4. Organization of seminar in association with University on women right, children right, human right.

5. To undertake survey projects and activities during NSS.

6. Final year students are encouraged to take projects/Seminars which address cross cutting issues viz. green energy, biogas, water management, agricultural, electronics, sport engineering etc.

Titles of Projects/Seminar

1. Environment Science

a. National seminar on technological innovation with environmental integrity

b. Eco System

c. EVS Projects on Chatri Talav & Wadali Talav

d. EVS Project on Wadali forest eco system

2. Sport Engineering Project

a. Player Monitoring System Using GSM

b. Speedometer

c. Electronic Cricket Batting Technique Analyzer / Trainer

d. Touch less Fingerprint Recognition System Using MATLAB

1.3.4 What are the various value-added courses/enrichment programmes offered to ensure holistic development of students?

1. Moral and ethical values

2. Employable and life skills

3. Better career options

4. Community orientation

1. **Moral and Ethical Values**

Tree plantation, Jayanti Celebration, Various national days like youth day, teacher day, engineering Day, Women day, martyr day, republic day, Independence Day celebrations, and movie club comes under this section.

Table 1.3.4(a): Details of various enrichment programmes offered to develop moral and ethical values:

Session 2015-2016

Sr. No.	Activities	Academic Year	No. of Students Involved
1	Mahatma Gandhi Birth Anniversary	02-10-2015	142
2	Teacher's Day	05-09-2015	136
3	Youth Day	12-01-2016	136
4	Women's Day	08-03-2016	122
5	Martyrs Day	23-03-2016	109

Session 2014-2015

Sr. No.	Activities	Activity Date	No. of Students Involved
1	Mahatma Gandhi Birth Anniversary	02-10-2014	142
2	Teacher's Day	05-09-2014	136
3	Movie Club Picture on Dr. Prakash Baba Aamte	27-10-2014	200
4	Documentary Films of HVPM	03-01-2015	150
5	Youth Day	12-01-2015	123
6	Women's Day	08-03-2015	130
7	Martyrs Day	23-03-2015	118

Session 2013-2014

Sr. No.	Activities	Activity Date	No. of Students Involved
1	Swami Vivekananda 150th Birth Anniversary	03-08-2013	147
2	Visvesvaraya Birth Anniversary	15-09-2013	143
3	Youth Day	12-01-2014	149
4	Gadge baba Birth anniversary Rally	23-02-2014	132
5	Women's Day	08-03-2014	120
6	Martyrs Day	23-03-2014	115

Session 2012-2013

Sr. No.	Activities	Activity Date	No. of Students Involved
1	Teacher's Day	05-09-2012	143
2	Gadge Baba Birth Anniversary Rally	23-02-2013	145
3	Women's Day	08-03-2013	124
4	Martyrs Day	23-03-2013	150

2. Employable and Life Skills:

Awareness Camp, Guest lecture on Career, Interview Skills, DIGITAL INDIA week presentation competition etc are included here.

Table 1.3.4(b): Details of various enrichment programmes offered to develop Employable and Life Skills
Session 2016-2017

SN	Name & Address of Company	Name of Expert	Date	Participating Branches	No of Students	Outcome
1	Microsoft	Mandar Kulkarni	25th June 2016	3rd & final	70	Cloud computing
2	Kokan corridor, science & technology, Pune university	Ashok Saraf	24 to 26th June 2016	3rd & final	60	.net, android, business development, elect fundamental lab
3	Technotalk Engineering,Tata Motors	Sumit Malpani	17th July 2016	3rd Year Mechanical	39	Presentation on CTA-10"Automobile component testing
4	ACIT, Pune	Rohit Paradasani	16th July 2016	3rd & final	80	Networking
5	Gate forum pvt ltd, Amravati	Umesh Agrawal	19th July 2014	3rd & final	280	How to prepare for gate exam
6	Technotalk Engineering,Tata Motors	Sumit Malpani	16th July 2016	3rd Year Mechanical	52	Analysis of fitment
7	Educate to Automate, Behind indian oil pump,Univercity road, Pune	Nitin Lokhande	7th July 2016	3rd Year Mechanical	44	Automation Engineering

Session 2015-2016

SN	Name & Address of Company	Name of Expert	Date	Participating Branches	No of Students	Outcome
1	Cognizant,Pune	Vaibhav Kalane	4th March 2016	ENTC	10	Career Orientation

| 2 | BSNL | G.B.Khatri | 20th March 2016 | ENTC | 125 | Government Opportunities & Aptitude Skill |

Session 2014-2015

SN	Name & Address of Company	Name of Expert	Date	Participating Branches	No of Students	Outcome
1	Seedinfotech, Pune	Somnath Shendage	11th July 2014	CSE, IT,ENTC	89	Importance of Global Certification
2	Knowmax Solutions Sc. Opc. Pvt. Ltd. Nagpur	Laxman Hedaoo	17th July 2014	ENTC	75	Virtual Internship Program
3	Pranav Systtech Pvt.Ltd, Pune	Mr.Shyam Patil & Mr.Dhruv,	19th July 2014	CSE, IT, ENTC	180	SAP Awareness Program for 3rd Year & Final Year Students of CS, IT & ENTC
4	Bizsence solutions, Nagpur	Shirish Wakil,	14th March 2015	CSE, IT, ENTC	180	Indusrty Expectation from fresher

Session 2013-2014

SN	Name & Address of Company	Name of Expert	Date	Participating Branches	No of Students	Outcome
1	Mastiff Solution Pvt. Ltd. Amravati	Piyush Hande	5th July 2014	CSE,IT	110	Internship Program at Mastiff Solution,
2	Seed infotech, Pune	Somnath Shendage	11th July 2014	CSE,IT, ENTC	89	Importance of Global Certification

Session 2012-2013

SN	Name & Address of Company	Name of Expert	Date	Participating Branches	No of Students	Outcome
1	Pioneer Learning Systems, Amravati	Mr. Shrikant Borgaonkar,	8th Aug 2012	ENTC	90	Resume Writing and GD PI Query Solving session

3. **Better Career Options**-: New opportunities in the industry, All CTAs, IOT, expert talk on better carrier option are mentioned below

Table 1.3.4(c): Details of various enrichment programmes offered to get better career options:

Session 2016-2017

SN	Name & Address of Company	Name of Expert	Date	Participating Branches	No of Students	Outcome
1	S.R Academy s.r.Infracture,chandak construction	Chandak Shashank	22nd Aug 2016	2nd year mechanical	36	Cost optimization and construction project for MEP
2	CCIL	C Kajwadkar	24th Sep 2016	2nd,3rd,final	300	Cyber Security Awareness program
3	Risk Quotient Pvt .Ltd, Mumbai	Chaitanya Kunthe	24th Sep 2016	2nd,3rd,final	250	Cyber Security Awareness program
4	TCS	Girish Dandiga	1st & 2nd Oct 2016	3rd & Final CTA	140	TCS initiative Digital Impact Square – DISQ
5	Microsoft	Mandar Kulkarni	1st & 2nd Oct 2016	3rd & Final CTA	140	driving the Azure adoption across various business verticals
6	MNCE BIZ	Narayanan Ramanathan	1st & 2nd Oct 2016	3rd & Final CTA	140	On Campus projects

Session 2015-2016

SN	Name & Address of Company	Name of Expert	Date	Participating Branches	No of Students	Outcome
1	Sun SOFT Solutions & Consultancy Pvt. Ltd	Rajiv Ranjan	5th March 2016	ENTC	110	Company Awareness

Session 2014-2015

1	Knowmax Solutions Sc. Opc. Pvt. Ltd. Nagpur	Laxman Hedaoo	16th Jul 2014	CSE	64	Virtual Internship Program
2	Knowmax Solutions Sc. Opc. Pvt. Ltd.	Sagar Khuje	18th Jul 2014	IT	68	Virtual Internship Program

	Nagpur					
3	HVPM COET, Amravati	A A Karmarkar,	7th Aug. 2014	CSE, IT, ENTC	165	Preparation for Campus Day
4	HVPM COET, Amravati	Mr. A A Karmarkar, TPO	12th Jan 2015 to 16th Jan 2015	CSE, IT, ENTC	175	Mock placement Interview
5	Technoltalk Engineering, Pune	Mr. Sumit Malpani,	23rd March 2015	Mechani cal	70	Career Options for Mechanical Engineering graduates

Session 2013-2014

S N	Name & Address of Company	Name of Expert	Date	Participati ng Branches	No of Stude nts	Outcome
1	Pioneer Learning Systems, Amravati	Shrikant Borgaonkar	5th July 2014	CSE,IT, ENTC	175	Resume Refinement session for Final Year Students of Batch 2015

Session 2012-2013

SN	Name & Address of Company	Name of Expert	Date	Participating Branches	No of Students	Outcome
1	Pioneer Learning Systems, Amravati	Shrikant Borgaonkar,	4th to 6 th Aug. 2012	CSE & IT	140	Resume Writing and GD PI Query Solving session for

4. Community Orientation-: blood donation camp, NSS students participate such program. Year wise

Table 1.3.4: List of Activities conducted by NSS
Session 2015-2016

Sr. No.	Activities	Date	No. of Students Involved
1	NSS Session Inauguration Program	15-08-2015	1236
2	Tree Plantation Program	20-08-2015	139
3	Swachh Bharat Abhiyaan	26-10-2015	142
4	Blood Donation Camp	09-09-2015	136
5	Blood Donation Camp	08-03-2016	120
6	NSS CAMP at Adgaon	20/01/2016 to 20/01/2016	75

Session 2014-2015

Sr. No.	Activities	Date	No. of Students Involved
1	NSS Session Inauguration Program	15-08-2014	144
2	Tree Plantation Program	20-08-2014	140
3	Swachh Bharat Abhiyaan	26-10-2014	136
4	Blood Donation Camp	09-09-2014	126
5	Blood Donation Camp	08-03-2015	128
6	NSS CAMP at ADGAON	01/01/2015 to 08/01/2015	75

Session 2013-2014

Sr. No.	Activities	Date	No. of Students Involved
1	NSS Session Inauguration Program	05-08-2013	147
2	Selection for NSS Students	10-08-2013	146
3	College Area Cleanliness Campaign	13-08-2013	136
4	Tree Plantation Program	15-08-2013	138
5	Indian Culture and Indian Games for Foreign Students Conducted by NSS	20-08-2013	128
6	Blood Group Checking Camp	01-09-2013	129
7	Blood Donation Camp	09-09-2013	125
8	In Debate Competition the Winner of National and State Level		141
9	Treatment of Hypnotism	20-09-2013	136
10	AIDS Awareness Rally	01-12-2013	137
11	Visit Madhuban Old Age Home	09-01-2014	145
12	Bicycle Rally- To Save Petrol	25-01-2014	148
13	Women's Disease Diagnostic Camp	30-01-2014	145
14	Blood Donation Camp	08-02-2014	136
15	Pulse Polio Camp	23-02-2014	142
16	NSS Unit Arranged Vidarbha Level Debate Competition	10-03-2014	135
17	NSS CAMP at pada	30-12-2013 to 06-01-2014	75

Session 2012-2013

Sr. No.	Activities	Date	No. of Students Involved
1	NSS Session Inauguration Program	10-08-2012	147
2	Selection for NSS Students	12-08-2012	148
3	Collage Area Cleanliness Campaign	13-08-2012	142
4	Tree Plantation Program	15-08-2013	132
5	Blood Group Checking Camp	02-09-2012	146
6	Blood Donation Camp	09-09-2012	142
7	Treatment of Hypnotism	22-09-2012	146

8	AIDS Awareness Rally	01-12-2012	142
9	Visit Madhuban Old Age Home	06-01-2013	141
10	Bicycle rally-To save Petrol	25-01-2013	147
11	AIDS Awareness Program	01-12-2013	145
12	Village Cleanliness	26-01-2013	142
13	Pulse Polio Camp	07-02-2013	136
14	NSS CAMP at pada	05-01-2013 to 12-01-2013	85

1.3.5 **Citing a few examples enumerate on the extent of use of the feedback from stakeholders in enriching the curriculum?**

Stakeholders of College are: Students, Faculty, Parents, Industry, Society, DTE, AICTE, Other Institutions, Universities, etc.

Effort made by institution on extent of use of feedback from stakeholder with following examples,

College takes feedback from stakeholders mainly alumni & Industry regarding requirement of enrichment of curriculum. The feedback is used to enrich curriculum by taking efforts by appropriate forum/authority. Following are the some example in this regards:

1. Introduction of subjects of Sport Managements, Health care management, Pharmaceutical management in the curriculum of MBA,

2. Syllabus of VLSI design drafted by Dr. U.A.Belorkar

 (Refer 1.3.2. as supportive document of implementation of curricular enhancement.)

1.3.6 How does the institution monitor and evaluate the quality of its enrichment programmes?

The institution monitors and evaluates the quality of its enrichment programmes on the following parameters:

- Evaluation by external agencies
- Mock placement drive
- Internship and feedback from Industry
- Feedback from CTA trainers
- Soft skill development in students
- Professional skill developments of students

- Through seminar & project competition

- Hackathon

- Placements of students

- Social gathering with sports week

- SGBAU Color Coat Holder in sports/ Avishkar/ Competition

- Technizzma and other Technical events

- Awards and rewards in extracurricular Activities

- Programs in Research & Developments Activities

- Quality Project Management

- Seminar Presentations

1.4 Feedback System

1.4.1 What are the contributions of the institution in the design and development of the curriculum prepared by the University?

Faculty Members of the college are members or invited members of Board of Studies of university. The University also conducts subject wise workshop for revision of curriculum and syllabus. The faculty members of the institution actively participate and contribute for changes in the design and curriculum.

(Refer Table No. 1.1.6 Members of BOS of affiliating University/Head of Department)

Table 1.4.1: Details of workshops held /participated by teachers

Name of Faculty Participated	Syllabus workshops in University	Venue
Dr.A.B.Raut	Computing Curriculum Vision-2020	SGBAU, Amravati
Dr.R.R.Keole	Computing Curriculum Vision-2020	SGBAU, Amravati
Prof. Y.R.Rochlani	Computing Curriculum Vision-2020	SGBAU, Amravati
Prof.P.M.Phadke	Syllabus designing and restructuring	SGBAU, Amravati
Prof.V.S.Gangwani	Syllabus designing and restructuring	SGBAU, Amravati
DR. U.A.Belorkar	Curriculum Review Dt.27-06-2014	JDIET, Yavatmal
DR. U.A.Belorkar	Syllabus Training of Programmes in BOS 13-08-2016	Mauli COET, Shegaon
Dr. P.L.Ramteke	Syllabus Designing	BNCOE, Pusad

Following changes are effected over the period.

1. Change to credit based system

2. Introduction of new subjects like Sport Managements, Health care management, Pharmaceutical management in the curriculum of MBA,

3. Syllabus of VLSI design drafted by Dr. U.A.Belorkar

4. Revision of syllabus to include advancement and global market requirement (put up changed syllabus)

1.4.2 Is there a formal mechanism to obtain feedback from students and stakeholders on Curriculum? If 'yes', how is it communicated to the University and made use internally for curriculum enrichment and introducing changes/new programmes?

There is no formal such mechanism at University Level but college takes the feedback from Industry (particularly those who comes for campus placement) and alumni. Head of Departments and TPO visit/ interact with Industry to know the gap between Industry expectation and curriculum. It is communicated to the University through faculty members who are members of Board of Studies. The Institutes introduced employment enhancement programme in CTA on the basis of the feedback.

1.4.3 How many new programmes/courses were introduced by the institution during the last four years? What was the rationale for introducing new courses / programmes?)

Table 1.4.3: Details of programmes introduced by the institute during the last four years

Sr. no.	Course	Level	Intake	Year of Starting	Rational for Starting
1	Mechanical Engineering	UG	60	2014	Mechanical engineering is the oldest engineering discipline. The course was demanded by majority of the students. Hence to impart quality Mechanical engineering knowledge, B.E. Mechanical Engineering program was introduced.

2	Computer Science Engineering.	UG (Direct Second Year) Lateral entry	60	2011	To give access to Diploma holders for degree education
3	Electronics & telecommunication Engineering	UG (Direct Second Year) Lateral entry	60	2011	To give access to Diploma holders for degree education
4	Computer Science Engineering.	PG	18	2011	To retain and bring in the gifted students for higher studies and promote R&D activities
5	Computer Science Engineering & IT	PG	24	2013	To retain and bring in the gifted students for higher studies and promote R&D activities
6	Electronics & telecommunication Engineering	PG	24	2013	To provide quality education in the Post graduate level & To establish a research culture which in turn has enhanced the teaching-learning process

CRITERION-II

TEACHING-LEARNING AND EVALUATION

2.1 Student Enrolment and Profile

2.1.1 How does the College ensure publicity and transparency in the admission process?

The College ensures publicity and transparency in the admission process in the following manner:

- College admissions of B.E., M.E. and M.B.A. courses are done through State level centralized admission process conducted by State CET cell / Directorate of Technical Education Maharashtra State, Mumbai under admission regularity authority.

- Admission notification for JEE/CET examination, preparation of merit list and conduct of CAP rounds as per students choices on merit.

- The CAP vacancies, if any, are filled at institute level on merit basis by adopting the procedures as specified by admission regularity authority.

- The advertisements for admission against CAP vacancies of different courses are published in all leading newspapers and the same is displayed on the notice board and website of the institute. The advertisement contains detailed information about courses, eligibility, college fee and admission schedule.

- Merit List is prepared and displayed on the notice board and website of the institute.

- Admissions are done from the merit list as per mentioned schedule.

2.1.2 Explain in detail the criteria adopted and process of admission (Ex. (i) merit (ii)common admission test conducted by state agencies and national agencies (iii) combination of merit and entrance test or merit, entrance test and interview (iv) any other) to various programs of the Institution.

Criteria adopted and process of admission for B.E. Courses:

- First Year Engineering

For Maharashtra state candidate

1. Candidate should be an Indian National and should have passed the HSC (Std.XII) examination of Maharashtra State Board of Secondary and Higher Secondary Education or its equivalent examinations with subjects English, Physics, Mathematics and Chemistry / Biotechnology / Biology / Technical Vocational subject.

<div align="center">AND</div>

2. Secured minimum 50% marks (minimum 45% in case of Backward class categories and Persons with Disability candidates belonging to Maharashtra State only) in the subjects Physics, Mathematics and Chemistry / Biotechnology / Biology / Technical Vocational subject added together.

<div align="center">AND</div>

3. Score obtained in MHT-CET

For All India candidates (Maharashtra & OMS)

1. Candidate should be an Indian National and should have passed the HSC (Std.XII) examination of Maharashtra State Board of Secondary and Higher Secondary Education or its equivalent examinations with subjects English, Physics, Mathematics and Chemistry/ Biotechnology/ Biology/ Technical Vocational subject.

<div align="center">AND</div>

2. Secured minimum 50% marks (minimum 45% in case of Backward class categories and Persons with Disability candidates belonging to Maharashtra State only) in the subjects Physics, Mathematics and Chemistry/ Biotechnology/ Biology/ Technical Vocational subject added together.

<div align="center">AND</div>

3. Score obtained in JEE (Main) (Paper 1) or score in MHT-CET

For Maharashtra State Candidates passing Diploma in Engineering/ Technology course

1. Diploma holders should have passed the Diploma course in Engineering/Technology with minimum of 50% marks (45% marks in case of backward class categories and Persons with Disability candidates belonging to Maharashtra State only) and medium of instruction as English from the AICTE approved Diploma Institutes affiliated to State Boards of technical education.

- **Direct Second Year Engineering**

1. The candidate must be an Indian National and should have passed Post-SSC or Post-HSC Diploma Course in Engineering/Technology with at least 45% marks (40% marks in case of candidates of backward class categories and Persons with Disability belonging only to Maharashtra State) in appropriate branch of Engineering / Technology from an AICTE approved institution with English as the medium of instruction at Diploma level.

<div align="center">OR</div>

2. The candidate must be an Indian National and should have passed B.Sc. Degree from a UGC / Association of Indian Universities recognized University with at least 45% marks (40% marks in case of candidates of backward class categories and Persons with Disability belonging only to Maharashtra State) and passed XII standard examination with Mathematics as the subject and with English as the medium of instruction at B.Sc. level.

B) Admissions for Institutional Quota and Vacancies after CAP rounds

Institute is permitted to admit up to 20% of students. For institutional quota, candidates are selected based on the merit criteria same as for CAP admissions.

The admission process defined by the Directorate of Technical Education, Maharashtra State and State Common Entrance Test Cell is strictly followed by the Institute for First Year Engineering and Direct Second Year Engineering admissions.

Criteria adopted and process of admission for M.E. courses:

1. Candidate should be an Indian National
2. Candidate should have passed/appeared Bachelor degree or equivalent in the relevant field of Engineering/Technology from State Governments/MHRD approved institutions, with at least 50% Aggregate marks* (at least 45% marks in case of candidates of Backward class categories and persons with disability belonging to Maharashtra State only)
3. The candidate should possess Bachelor degree in the relevant course of Engineering/Technology as specified in the eligibility criteria of the concerned University for which admission is being sought to a particular Post graduate degree course/specialization.

Eligibility Criteria for admissions to Maharashtra State and OMS Candidates

1. Candidate should have passed/appeared Bachelor degree or equivalent in the relevant field of Engineering/Technology from State Governments/MHRD approved institutions, with at least 50% Aggregate marks* (at least 45% marks in case of candidates of Backward class categories and persons with disability belonging to Maharashtra State only)

2. Having Positive GATE Score valid for the period.

Criteria adopted and process of admission for M.B.A. Course

Passed with minimum of 50% marks in aggregate or equivalent CGPA (45% in case of candidates of backward class categories and Persons With Disability belonging to Maharashtra State only) in any Bachelor's degree awarded by any of the Universities incorporated by an act of the central or state legislature in India or other educational institutions established by an act of Parliament or declared to be deemed as a University under Section 3 of the UGC Act, 1956 of minimum three years duration in any discipline recognized by the Association of Indian Universities, or possess an equivalent qualification recognized by the Ministry of HRD, Government of India.

OR

Appeared for the final year examination of any Bachelor's degree to be awarded by any of the Universities incorporated by an act of the central or state legislature in India or other educational institutions established by an act of Parliament or declared to be deemed as a University under Section 3 of the UGC Act, 1956 of minimum three years duration in any discipline recognized by the Association of Indian Universities, or an equivalent qualification recognized by the Ministry of HRD, Government of India. Such candidates can be considered for provisional admission subject to passing the Degree exam with minimum of 50% marks in aggregate or equivalent CGPA (45% in case of candidates of backward class categories and Persons With Disability belonging to Maharashtra State only).

2.1.3 **Give the minimum and maximum percentage of marks for admission at entry level for each of the programmes offered by the college and provide a comparison with other colleges of the affiliating university within the city/district**

The Details of marks at Admission at entry level are given below:

Table 2.1.3 (a) Details of marks for Admission on the Basis of JEE score
Academic year 2015-16

Sr. No	Name of Program	HVPM COET	
		MAX	MIN
1	Computer Science & Engineering(Regular)	74.40	12.70
2	Computer Science &Engineering (Direct second year)	76.90	53.48
3	Electronics & Telecommunication(Regular)	78.60	5.08
4	Electronics &Telecommunication(Direct second year)	80.00	58.40
5	Information Technology	53.69	15.80
6	Mechanical Engineering	70.65	15.18
7	ME (CSE)	16.36	2.63
8	ME(ENTC)	17.04	3.25
9	ME(CSIT)	11.02	4.14
10	MBA	76.98	0.85

Table 2.1.3 (b) Details of marks for Admission on the Basis of JEE score
Academic year 2014-15

Sr. No	Name of Program	HVPMCOET	
		MAX	MIN
1	Computer Science & Engineering	77.16	12.12
2	Computer Science &Engineering (Direct second year)	80.97	58.58
3	Electronics & Telecommunication	64.78	22.89
4	Electronics & Telecommunication(Direct second year)	76.91	59.49
5	Information Technology	50.44	20.27
6	Mechanical Engineering	59.89	15.04
7	ME (CSE)	21.25	2.85
8	ME(EXTC)	17.29	5.95
9	ME(CSIT)	17.56	1.64
10	MBA	77.25	2.68

Table 2.1.3 (c) Details of marks for Admission on the Basis of MH-CET score
Academic year 2013-14

Sr. No	Name of Program	HVPM COET	
		MAX	MIN
1	Computer Science & Engineering	90	36
2	Computer Science &Engineering (Direct second year)	82.52	56.41
3	Electronics & Telecommunication	101	29.5
4	Electronics & Telecommunication(Direct second year)	86.67	60.67

5	Information Technology	60.00	13
6	Mechanical Engineering	-	-
7	ME (CSE)	64.37	28
8	ME(EXTC)	68.00	24
9	ME(CSIT)	69.78	23
10	MBA	110.00	04

Table 2.1.3 (d) Details of marks for Admission on the Basis of MH-CET score
Academic year 2012-13

| Sr. No | Name of Program | HVPM COET | |
		MAX	MIN
1	Computer Science & Engineering	87.00	32
2	Computer Science &Engineering (Direct second year)	75.87	60
3	Electronics & Telecommunication	92.00	40
4	Electronics & Telecommunication(Direct second year)	78.20	68
5	Information Technology	112.00	25
6	Mechanical Engineering	--	--
7	ME (CSE)	57.00	22
8	ME(ENTC)	----	---
9	ME(CSIT)	---	----
10	MBA	94.00	45

2.1.4 Is there a mechanism in the institution to review the admission process and student profiles annually? If yes, what is the outcome of such an effort and how has it contributed to the improvement of the process?

Admission process (CAP and Institute level) is to be followed as specified by rules, regulations and act of the State Government. The process is reviewed and discussed in college council meet. The feedback is submitted to competent authority/ government.

Outcome: The changes are made in admission process such as getting facilitation centre, reducing number of steps of the process, verification of admissions by the competent authority from time to time.

Mechanism in the Institution to review student profiles annually

- The Institute collects and analyzes the detailed information about the admitted students on the following parameters:
  Personal Information, Academic background, Family Background, Economic status, Gender representation, HSC Marks, SSC Marks, Academic record from First to Final year.

- The profile record is maintained in the form of cards and soft copy.

Outcomes of such efforts:

This helps to understand the student competency, capability and interest. This data is useful in redefining the policy of enhancement of quality of education, training, and skills that aid teachers to Know Your Students (KYS)

- To identify fast learner, slow learner, attitude, motor skills of the students and helps to form groups for various academic, co-curricular activities.

- Need-based special efforts are taken.

- Useful during counseling of students and parents.

- Helps to motivate students for improvement in performance and overall development.

- The data is also useful for alumni record and giving feedback / recommendations for career perspective.

2.1.5 Reflecting on the strategies adopted to increase/improve access for following categories of students, enumerate on how the admission policy of the institution and its student profiles demonstrate/reflect the National commitment to diversity and inclusion SC/ST, OBC, Women, Differently abled, economically weaker sections, Minority community, any other

Strategies adopted: To attract students from vulnerable and deprived section of the society towards higher and technical education.

Policies adopted:

1) To appoint teachers from under privileged section of society like women, minority communities.

2) To conduct awareness camps at their locations.

3) To extend sports, gymnasium and physical fitness facilities available in the campus to these students.

4) To instill confidence and to wean out fear from the minds of students through counseling for reducing sense of insecurity and discomfort.

5) To extend co-operation to seek financial assistance and support from various government and NGO schemes.

6) To conduct remedial classes for slow learners.

7) To conduct personality development programme, employability enhancement programme

Activities:

The admission counseling team of the college visits and arrange technical education awareness program in the localities of

1) Villages, Taluka places and Allied Institutions.

2) Areas predominantly residents of these communities Viz. Ashramshala.

3) Motivational efforts such as installments in fees, fee concession, making all Govt. support schemes available, making private trust schemes available are undertaken to improve access to technical education.

4) The Anti-Ragging Committee ensures that no student faces any mental or physical harassment in the College.

5) Remedial classes for weaker students are arranged for academic improvement.

6) All Facilities such as Swimming, Gymkhana and Badminton are available freely to Students for their physical fitness.

7) Yoga classes are conducted in morning session for peace and concentration.

8) More than 50% are Girls admission at the Institute as shown in fig 2.1.5.
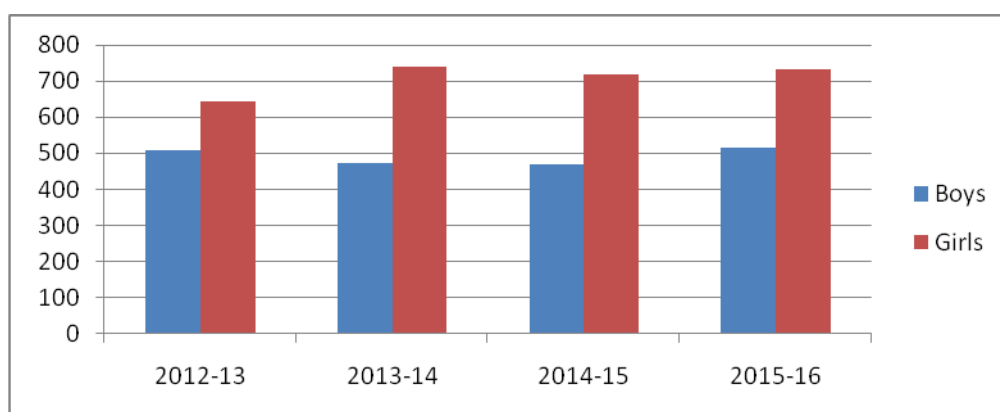
Fig. 2.1.5 Bar-Chart showing year and gender wise students' admission

As per the government rules, various scholarships and financial exemptions are availed to reserved category students so as to ensure the right of higher technical education for them. Following is given a summary of benefits made available to reserved category students through scholarships.

Table 2.1.5 (a) Scholarship details for the academic year 2015-16

Sr. No.	Scholarship for	Number of Beneficiary Students
UG Course (Bachelor of Engineering)		
1	SC	136
2	ST	04
3	VJNT	64
4	SBC	17
5	OBC	623
PG Course (Master of Engineering)		
1	SC	05
2	ST	--
3	VJNT	07
4	SBC	01
5	OBC	45
PG Course (Master of Business Administration)		
1	SC	11
2	ST	--
3	VJNT	05
4	SBC	02
5	OBC	36

Table 2.1.5 (b) Scholarship details for the academic year 2014-15

Sr. No.	Scholarship for	Number of Beneficiary Students
UG Course (Bachelor of Engineering)		
1	SC	114
2	ST	03
3	VJNT	64
4	SBC	19
5	OBC	576
PG Course (Master of Engineering)		
1	SC	08
2	ST	---
3	VJNT	06
4	SBC	01
5	OBC	37
PG Course (Master of Business Administration)		
1	SC	08
2	ST	---
3	VJNT	03
4	SBC	---
5	OBC	42

Table 2.1.5 (c) Scholarship details for the academic year 2013-14

Sr. No.	Scholarship for	Number of Beneficiary Students
UG Course (Bachelor of Engineering)	
1	SC	121
2	ST	02
3	VJNT	59
4	SBC	25
5	OBC	575
PG Course (Master of Engineering)	
1	SC	08
2	ST	---
3	VJNT	06
4	SBC	----
5	OBC	37
PG Course (Master of Business Administration)	
1	SC	09
2	ST	01
3	VJNT	02
4	SBC	02
5	OBC	46

Table 2.1.5 (d) Scholarship details for the academic year 2012-13

Sr. No.	Scholarship for	Number of Beneficiary Students
UG Course (Bachelor of Engineering)	
1	SC	126
2	ST	04
3	VJNT	76
4	SBC	29
5	OBC	519
PG Course (Master of Engineering)	
1	SC	04
2	ST	---
3	VJNT	04
4	SBC	----
5	OBC	14
PG Course (Master of Business Administration)	
1	SC	14
2	ST	---
3	VJNT	02
4	SBC	01
5	OBC	45

2.1.6 Provide the following details for various programmes offered by the institution during the last four years and comment on the trends. i.e. reasons for increase/decrease and actions initiated for improvement.

Admissions in all programmes B.E., M.E., M.B.A and for all courses are carried out by admission regularity authority, State CET cell and Directorate of Technical Education through centralized admission process. Hence applications are invited and received by the competent authority and so admitted students only report to the college. Thus table is suitably modified and demand ratio is calculated from intake capacity and number of admitted students.

Table 2.1.6 Various programmes offered by the Institution

	Programme UG and PG	Year	Intake Capacity	No. of Students Admitted	Demand Ratio (%)
UG	Computer Science & Engineering	2012-13	60	59	98.33
		2013-14	60	58	96.66
		2014-15	60	37	61.66
		2015-16	60	44	73.33
	Computer Science & Engineering (Direct second year 1st Shift)	2012-13	60	36	60.00
		2013-14	60	60	100
		2014-15	60	60	100
		2015-16	60	36	60.00
	Electronics & Telecommunication	2012-13	60	60	100
		2013-14	60	64	100
		2014-15	60	25	41.66
		2015-16	60	28	46.66
	Electronics & Telecommunication (Direct Second year 2nd Shift)	2012-13	60	60	100
		2013-14	60	60	100
		2014-15	60	60	100
		2015-16	60	53	88.33
	Information Technology	2012-13	60	56	93.33
		2013-14	60	21	35.00
		2014-15	60	10	16.66
		2015-16	60	18	30.00
	Mechanical Engineering	2012-13	--	--	--
		2013-14	--	--	--
		2014-15	60	25	41.66
		2015-16	60	57	95.00
P.G.	ME (CSE)	2012-13	18	18	100
		2013-14	18	18	100
		2014-15	18	18	100
		2015-16	18	18	100

		2013-14	24	24	100
	ME(CSIT)	2014-15	24	24	100
		2015-16	24	12	50
		2013-14	24	24	100
	ME(EXTC)	2014-15	24	24	100
		2015-16	24	22	91.66
		2012-13	60	60	100
	MBA	2013-14	60	60	100
		2014-15	60	60	100
		2015-16	60	50	83.33

Reasons:

1) National/State/University trend in reduction in intake of Electronics & Telecommunication branch.

2) Placement of Electronics' student in Computer/IT sectors rather in their core sector.

Efforts: Beyond syllabus, a special training is being undertaken for enhancement of technical skills of the students so as to improve their employability.

The trend of admission in the Institute is as follows:

Number of students admitted in Computer Science & Engineering programme is almost constant in last four years. But, in case of Electronics and Telecommunication Engineering and Information Technology, number of admissions is seen to be fluctuating since last two years because of the shift in paradigm of demand of particular skill set required by the industry.

Action for improvement

To deal with the incurred setback in the admission ratio, certain marketing strategies have been adopted through:

- Advertisement in State Level News Papers
- Conduction of Presentations at various Colleges by faculties
- Counseling before and during admission process
- Participation in various career guidance exhibitions
- Core Technical Areas (CTA), Domains group were formed
- Strengthening the training and placement activities

- Higher secondary Junior College students are being regularly invited to the college for various competitions, workshops and visits to Departmental facilities.

2.2   Catering to student diversity

2.2.1 How does the institution cater to the needs of differently-abled students and ensure adherence to government policies in this regard?

As per the quota of special, differently-abled students various amenities are incorporated in the institution for their better experience. Prime of them are being listed below:

- Special arrangements are made during examinations so that they feel comfortable like separate sitting arrangement, writer if required, extra time as per rule etc.
- Barrier free environment, ramps, toilets with special provisions.
- Medical facility is made available in case of emergency. Institute offers reservations for differently-abled students as per the Government policies in the admissions.
- Preferential treatment is given in the central library, canteen and allied places etc.
- Special care is to be taken by teachers, mentors and supporting staff.

2.2.2 Does the institution assess the students' needs in terms of knowledge and skills before the commencement of the programme? If 'yes', give details on the process.

Yes, the Institution assesses the students' needs in terms of knowledge and skills before the commencement of the programme. Following are the details of the process.

The scheme of KNOW YOUR STUDENTS-1(KYS1) is exercised out:

- The data is collected to get information of the students
- Mentors assess the student's interest, knowledge and skill during interactions.
- On the basis of the information, students are categorized into groups by analyzing their academic background and knowledge, skills, attitude and behavior.

- From above information, different attributes about the students like the learning capability, knowledge gap, skill gap, comprehension trend, attitude and behavior are known to the teacher's at large extent.

- Accordingly, groups are formed for activities like practical, group assignments, projects, extra-curricular and extra mural activities.

- An individual teacher recognizes and prepares a list of probable students for individual guidance in the subject of expertise looking into the interest, knowledge and skill.

2.2.3 What are the strategies adopted by the institution to bridge the knowledge gap of the enrolled students (Bridge/Remedial/Add on/Enrichment Courses, etc.) to enable them to cope with the programme of their choice?

The strategies adopted by the institution to bridge the knowledge gap of the enrolled students to enable them to cope with the programme of their choice as follows:

- The scheme of KNOW YOUR SUBJECT-2(KYS2): The 'KNOW YOUR SUBJECT' identifies the pre-requisite of subject, course-wise as well as topic-wise.

- To bridge pre-requisites gap: The foundation course and recall of pre-requisite knowledge is undertaken.

- To bridge skill gap**:** The different sessions are arranged like Communication skill, soft- skill sessions and technical skill sessions.

The Departments motivate students to participate at State level, National level paper presentations, workshops, training programs, conferences & technical events. This opportunity helps to bridge the gap between the current trends and course curriculum.

Remedial measures are made for slow learners and under performers. Extra lectures are scheduled for the students directly admitted to the third semester after their diploma. These students join the Department late due to admission procedural delay. Their academic loss is overcome through these extra lectures.

- **Add-on efforts**

  The Institute motivates students to participate in various technical events at University/State/National levels. This opportunity helps to bridge the gap between the current trends and course curriculum.

Field visits are arranged to nearby and remote Industries. This gives an opportunity to the students to know about real-world applications of the subjects being studied by them.

- **Enrichment Courses**

   Beyond syllabus, core technical area courses are run for employability enhancement and for envisioning the broader outlook.

2.2.4 How does the college sensitize its staff and students on issues such as gender, inclusion, environment etc.?

The College sensitizes its Staff and Students for the above mentioned issues by following ways:

Institute organizes various events like Welcome function, Fare well function, Get-together, Women's day, Republic day, youth, Independence day, Sports and Annual social function to inculcate a feeling of 'being together' and thereby promote harmony and integrity among Institutional community.

The Women's grievance committee is formed for the security, welfare and grievance redressal of women as per the instructions of Director of Technical Education. The committee is active in the Institution which looks into the grievances of women and endeavors for a safe and secure women friendly atmosphere in the campus of Institute.

- Institute organizes special training programs on ethics - moral values and social activities to maintain good social environment in the Institute under residential National Social Scheme camp.

- Institute publishes yearly magazine which provides an open platform to flourish out the hidden endowments of the students and staff by letting them express their views on plethora of issues like that of education, art, literature, social awareness linguistic skills etc.

- Institute arranges Tech-buzz talk series.

- Annually, Institute arranges visits to old-age houses, orphanages.

- Blood donation camps are organized by the Institute frequently. The students come forward and donate blood for the benefit of public.

- Institute promotes Pollution free and green environment.

- A tree plantation programme (LAPTOP) is carried out on the occasion of Republic day, Independence Day in campus. An intensive care policy after plantation with proper gardening makes campus a green and beautiful.

- 50 KW solar Power plant is established in campus for green environment.

- Solid waste management plant is in its efficient operational condition to clean environment.

- 'NO Vehicle Day' in a month is reserved to imbibe the culture of eco-friendliness so as to let a pollution-free environment.

2.2.5 How does the institution identify and respond to special educational/learning needs of advanced learners?

The Institute identifies and responds to special educational/learning needs of advanced learners by following ways:

- For advanced learners the Courses of Core Technical Areas are formed.

- The advanced learners are encouraged to participate in workshops and seminars to gain knowledge on the latest technological developments.

- The students are encouraged to take up Industry based projects and mini-projects in the advanced topics under the guidance of faculty members. They are provided with extra exposure by organizing competitions on paper presentations, projects, games, poster presentation, lectures series, software development etc.

- Advanced learners are motivated to study diverse technical topics – which are in recent discussion on the global platform. They are also encouraged to use this study to present at different platforms. They are motivated to write articles in magazine and participate in group discussion, poster presentation as and when organized.

- Students are encouraged to participate in national competition.

- Additional book and magazines are provided to these students as per their requirement. Prizes and rewards are also given to such students for their participation in advanced learning.

- Finally, counseling is given to student for his/her problem and is motivated to continue with their studies.

- Counseling is given for GATE and other competitive examination. An appropriate guidance is given for pursuing higher studies in foreign Universities by acquainting the students about the examinations like TOFEL, GRE, IELTS.
- Industrial visit is arranged to high-tech labs like INTEL, Data-center, and ISRO.
- Institute arranges expert talk from the premier Institutes like IIT's.
- Institute makes arrangements to learn new, global, foreign languages like Japanese, French and thereby add on multi-lingual skills to students.
- The event like Hackathon is arranged where Students are encouraged to work on Industry defined problems and participate in the Competitions.

2.2.6 How does the institute collect, analyze and use the data and information on the academic performance (through the programme duration) of the students at risk of drop out (students from the disadvantaged sections of society, physically challenged, slow learners, economically weaker sections etc. who may discontinue their studies if some sort of support is not provided)?

The Institute collect analyzes and uses the data and information on the academic performance of the students at risk by:

- A regular collection of data in the form of attendance, performance in class test, performance in practical's and University end semester examination.
- The data is interpreted into relevant information by subject teacher and mentor and put forward to Head of Department for implementing remedial measures.
- Unit test/Class test are conducted to measure their academic performance.
- The result analysis is done and accordingly measures like extra assignment, remedial classes and improvement tests are conducted.
- Teacher uploads notes on E-learning resource center to make understand the content easily.
- Old-question paper set of University along with model answers are made available in the library.
- Book bank scheme for students from weaker section of the society.
- Installments and concession in college fees for economically weak students.
- Concessional hostel facilities are provided to the needy students.

2.3 Teaching-Learning Process

2.3.1 How does the college plan and organize the teaching, learning and evaluation Schedules? (Academic calendar, teaching plan, evaluation blue print, etc.)

The College plans and organizes teaching, learning and evaluation schedule as below:

Academic Schedule

- Teaching–Learning schedule (Calendar) is published in students' diary and displayed on notice- board.
- University Academic calendar is available on SGB, Amravati University.
- Institutional Academic calendar is displayed well in advance on notice boards.
- Departmental Time Table is displayed on departmental notice boards.
- Individual Time Table is made available to all the faculties.
- Laboratory Time Table is displayed on Laboratory notice boards.
- Remedial classes Time Table is displayed on departmental notice board.

Self-Learning schedule: (Digital Class room/Virtual Class room) time table, NPTEL, SWAYAM time tables are displayed on departmental notice board.

Skill-sharpening schedule: CTA time table, Soft-skills time table, project schedule time table are displayed well in advance.

Evaluation schedule: Time table for Submission, Unit test, assignments, end examinations, practical examinations, improvement test, feedback-sessions, display of results, redresses and grievances are displayed on departmental notice board.

Teaching plan and Evaluation

Planning & Execution: Teaching plan of the subject, session and evaluation is prepared by the subject teacher and details of the same are mentioned in academic diary by the subject teachers.

The scheme 'Know Your Subject' for the faculty keeps them ready before the start of the sessions to deliver the subject efficiently and effectively.

2.3.2 How does IQAC contribute to improve the teaching student – learning process?

The multi-level contribution of IQAC to improve the teaching student-learning process is as mentioned below:

- Identification of scope of improvement by IQAC
- Analysis of feedback
- PBAS analysis
- Result analysis
- Suggestions for improvement by IQAC
- Study of current and future trends
- Study of NAAC and NBA manuals to understand expectations and aspirations
- Interact with industry to understand stakeholders expectations
- Implementation and Monitoring by IQAC
- On the basis of analysis for the scope of improvement, proper suggestions, advice and assistance are provided to the faculties and again the feedback of students are seek for further improvement
- It coordinates and invites guest lecturers in thrust areas to conduct seminars, interact with academicians and people from industry to get first-hand information on scientific trends and market need to boost the teaching quality
- Prizes are given to encourage and motivate faculty and students for better performance in academics

2.3.3 How learning is made more student-centric? Give details on the support structures and systems available for teachers to develop skills like interactive learning, collaborative learning and independent learning among the students?

The learning is made student–centric Learning by employing following ways:
- Know Your Student -To understand comprehension capabilities of students
- Encouraging students to participate by asking doubts, giving feedbacks.

- Use of lecture, power point presentation, display of videos, group discussions, mentoring and counseling, projects, internships, competitions, technical workshops, seminars, expert talks, interaction of students with industry experts, formation of departmental academic forums.
- Cultural and technical festivals are managed by students.

Details of support structures:

Support of policy structures

- Availing guidance of senior renowned faculty, industry expert by appointing on governing body, adjunct faculty as expert person and resource person from industry.
- Providing requisite modern ICT facilities in the college
- Organization of conferences, seminars, workshops to bring experts on institutional platform to happen interactive sessions with them.
- To ensure conducive environment through horizontal organizational structure and freedom of expression.
- To have vibrant and active college council, students council, local managing committee and governing body.

Support structures& System available

- LCD projectors, Audio a/video system , High bandwidth internet connection, optical fiber lease line connectivity , virtual classroom setup
- Empanelled experts for online sessions , consultation ,MOU with international and national institution to facilitate student/faculty exchange
- Planning and Execution of Hackathon , projects on real life problems ,zero lecture lectures , flipped classroom sessions, co-generation of knowledge, Implementation of live projects on local problems
- Motivation to participate in self-learning courses like MOOC (Massive Open Online Courses) courses, SWAYAM platform, NPTEL.

2.3.4 How does the institution nurture critical thinking, creativity and scientific temper among the students to transform them into life-long learners and innovators?

Institution nurture critical thinking temperament among the students by following ways:

- To make them understand the designing of problem statement
- Various parameters of problem
- Multiple possible set of solutions for a particular problem
- Evaluation of multiple solutions and then finalizing optimum solution.
- Implementation of optimum solution.
- Data collection
- Data Analysis
- Logical conclusion
- Basic principles of science
- Application of scientific principles
- Software development competition, Model development competition
- Students who are interested in Research and Development work are continuously aggravated and encouraged to present their Project/Research work in different National and International Seminars, Conferences and Workshops.

Creativity:

Institute organizes the events like paper presentation, art exhibitions, Poster competition, debate competition, Art Gallery etc to nurture creativity temperament in the students.

Scientific temper:

Scientific temperament is nurtured through following ways:

- Demystification of natural and complex system
- Visits to data centers
- Technical exhibitions
- Workshops on recent technologies
- Expert lectures on great expedition like mission on mars, Chandrayan.
- Students are encouraged to get involved in industry sponsored projects as a part of their curriculum in final year.
- Students are motivated to write scientific and technical articles for college Magazine.

- Students are motivated to refer books, journals, and periodicals in central library as it is important in life-long learning process. Students are advised to appear for Post Graduate entrance exams like GATE, GMAT, GRE, TOEFL to continue their studies and research activities and professional certification examinations.

2.3.5 What is the technologies and facilities available and used by the faculty for effective teaching? E.g. Virtual laboratories, e-learning - resources from National Program on Technology Enhanced Learning (NPTEL) and National Mission on Education through Information and Communication Technology (NME-ICT), open educational resources, mobile education, etc.

The technologies and various facilities available and used by the faculty for effective teaching are mentioned below:

- High-speed , high bandwidth optical fiber lease line for internet facility
- Wi-fi facility
- Networking of computer (Intra-net)
- Each department is provided with minimum 20 systems separate computer lab.
- Three seminar halls are provided with internet connection, camera (Virtual class room set up) and audio-visual systems
- A centralized computer center with high speed internet, server and 100 numbers of Computers
- Digital library with high speed internet connection.
- e-repository consisting of NPTEL videos, e-books and other e contents like study material, question paper, model answers.
- Subscription of e-journal.
- Membership national digital library(NDL)
- Motivation and incentives for conducting virtual class-rooms, digital classroom sessions and laboratories.
- Virtual expert talk of industry, academician regularly.
- Deployment of MOOC (Massive Open Online Courses), SWAYAM resources.

Apart from traditional classroom teaching practices, the faculties are encouraged to use different Audio-visual stuff, Self-explanatory models and other such exemplary teaching aids.

2.3.6 How are the students and faculty exposed to advanced level of knowledge and skills (blended learning, expert lectures, seminars, workshops etc.)?

The students and faculty are exposed to advanced level of knowledge and skills through:

- Organization of experts talk of scientist from professional of high knowledge area like ISRO, BARC, Cyber forensics, IOT, Embedded systems, Nanotechnology .

- Visits to laboratories with advance knowledge like Intel Corporation, IBM, FAB lab, Artificial Intelligence.

- By Inviting experts from high knowledge education technologies : Flip classroom, National and International seminars on Sports engineering , Cloud computing, Androids, Environmental science, solid waste management, solar energy, Scilab, Matlab, DSP, Data mining and mobile computing, VLSI, Multi-layer manufacturing, 3D printing.

- Advanced level skills : Big-data analysis, Parallel computing skills (Super computing), ICT Skills.

- Advanced teaching learning skills like conducting flipped lectures, blended lectures, Zero lecture.

- Workshops , Special training courses like Hackathon , Internships, Seminars, National and International level seminars, Exhibitions, Visit to high tech laboratories like Intel, IBM etc, E-journals, journals , internet , e-books , access to knowledge resources, Mission 10 X.

Few Examples of exposure to advanced knowledge and advanced skills for students and Faculty:

- **For students :**

Table 2.3.6(a) Details of various advanced level of programs arranged for students

Sr. No.	Advanced knowledge		Sr. No.	Advanced Skills	
	Component	Efforts		Component	Efforts
1	Challenges & Opportunities in Technical Education in the era of Sustainable Development	3 days ISTE Convention	1	Internet of Things Using Android Programming	3 days workshop
2	ISRO : Its Mission & Completion	1 day expert talk	2	PCB Design	2 days workshop
3	Cyber Security	1 day expert talk	3	ASP DOT NET Technology	1 day workshop
4	Cloud Computing	1 day expert talk	4	Ek Nayi Khoj	1 day expert talk
5	Accessing the e-learning Resources	1 day expert talk	5	Technical Write Up and Presentation of Seminar	1 day expert talk
6	Trends in VLSI	1 day expert talk	6	Research Aptitude test for MBA and BE Final Year Students	2 days Research Aptitude Assessment Test
7	PHP and Joomla	Two day Expert talk	7	Embedded System	2 days workshop
8	AMCAT Awareness Program	1 day Awareness Program	8	Quadcopter	2 days workshop
9	National and International Industry's perspectives and expectations from Engineering Education	1 day Expert talk	9	Importance of Aptitude Test	1 day expert talk
10	Data Ware House and Web Mining	1 day Expert talk	10	Cyber Crime	1 day awareness program
11	Idea Incubation	Expert talk and interaction	11	Advance Intelligence Robotics	2 day workshop

12	Four Absolutes of Quality Management	Expert talk 1 day	12	Hands on work experience	Under Earn while Learn scheme
13	Guidance on Academic Project	1 day seminar	13	Green Glory Foundation and Membership Campaign for NGO	1 day awareness program
14	Software Testing	1 day Expert talk			
15	Computer Languages	1 day Expert talk			
16	Green Technology	1 day conference			

- **For Faculty:**

Table 2.3.6(b) Details of various advanced level of programs arranged for faculty

Sr. No.	Advanced Knowledge	
	Component	**Efforts**
1	FPGA based Image Processing & VLSI	Two week Short Term Training Program
2	ISRO : Its Mission & Completion	One day Expert talk
3	Big Data analytics	Two week Short Term Training Program
4	Challenges & Opportunities in Technical Education in the era of Sustainable Development	3 days ISTE Convention
5	Image Processing, Artificial Intelligence and Its Applications	Two week Short Term Training Program
6	Emerging Trends in Computer & Information Technology in Multidisciplinary Applications	Two week Short Term Training Program
7	Use of Mathematical Softwares & Fundamentals for Engg. Multidisciplinary Applications	Two week Short Term Training Program
8	Recycling and Reuse of Engineering Materials: Conservation of Energy Sources	Two week Short Term Training Program
9	Integrated approach towards Teaching – learning Methodology for Engineering Colleges	Two week Short Term Training Program
Advanced Skills		
1	Advance teaching skills	Workshop on flip class room Mission 10X
2	Orientation Program	2 days program
3	Advance teaching skills	Mission 10X

2.3.7 Details (process and the number of students \ benefited) on the academic, Personal and psycho-social support and guidance services (professional counseling / mentoring / academic advice) provided to students.

Table 2.3.7 (a) Details of efforts taken to give extra-curricular support to students

Type of Support	Process	Benefited students
Academic support & Guidance services	Mentoring	6 students per faculty in each department
	Remedial measures	4 students per faculty in each department
	Counseling	6 students per faculty in each department
	Book Bank	12 students per faculty in each department
	Professional counseling	10 students per faculty in each department
Personal support & Guidance services	Help to seek financial supports	4 students per faculty in each department
	Counseling	6 students per faculty in each department
	Self defense course	Nil
Psycho-social support & Guidance services	Counseling	6 students per faculty in each department
	Help to seek financial supports	4 students per faculty in each department
	Parent counseling	2 or more depends on situation
	Special sessions of Psycho-experts , Yoga , Self defense course	30
	Women grievance committee	4 Members
	Buddy system	2 Members
	Earn learn system	3 Members
	Conduction of team events	10 students per faculty in each department
	Dazzler group, Daksh Band, Movie club, Red-ribbon club , Blank-pages bank, NSS, Srujan, Departmental students forum	Average 8 to 10 students in each

2.3.8 Provide details of innovative teaching approaches/methods adopted by the faculty in the last four years? What are the efforts made by the institution to encourage the faulty to adopt new and innovative approaches and the impact of such innovative practices on student learning?

Efforts taken by Institution:

1) Providing ICT infrastructure like high speed internet, LCD projector, free access to this infrastructure.

2) Deputing faculty for training, workshop, conference.

3) Conducting workshop, seminar, and conference.

4) Inviting experts, industry person to interact with faculty.

5) Recognition, Award, felicitations and incentives for implementing innovative methods.

6) Record Mentioning of teacher's diary and student's diary.

7) Financial support for modernization and innovation in theory/practical

Table 2.3.8 Various Innovative teaching approaches adopted by faculties and its impacts.

Sr.No.	Innovative Methods	Impact
1	CTA	It helps to enhance placement ratio.
2	Hybrid learning	It helps to boost self learning orientation.
3	Flip class room	It initiate to application of knowledge.
4	Zero lecture	It initiates active learning among student.
5	Blended learning	It Stimulates critical thinking and helps students clarify ideas through discussion
6	Internship	Its gives real world exposure.
7	Mock teaching	It helps students to realize actual situation according to key area.
8	Collaborative learning	Develops higher level thinking skills.
9	Virtual Class-room	It increases convenience & flexibility
10	Digital Class room	It gives huge wealth of knowledge
11	Innovative experimentations in practical	Students stay on task more and are less disruptive
12	Digital evaluation	Enhances student satisfaction with the learning experience
13	Group Assignment	Promotes positive race relations
14	Role play	Enhances self management skills
15	Quickest query contest	Increases student retention
16	Student seminar & presentation	Promotes positive race relations
17	Mini& Major projects	Encourages diversity understanding
18	Ice breaking session	Develops higher level thinking skills

2.3.9 How are library resources used to augment the teaching- learning process?

Faculties use various resources during teaching like:

- College digital Library
- E-Book
- E- Journal
- Departmental & Central Library
- Use of e-repository
- Literature survey is compulsory for presentation of seminars, projects.
- Encouragement for publication of papers based on critical review, project and advance technology.
- Issue of text books before the commencement of the session and till the end of semester.
- Conduct of open book test
- Development of departmental library for ease and convenience.
- Subscription to national digital library
- Membership subscription to concertia of SGBAU, Amravati.

2.3.10 Does the institution face any challenges in completing the curriculum within the planned time frame and calendar? If 'yes', elaborate on the challenges encountered and the institutional approaches to overcome these.

<u>Yes</u>

- First year and direct second year admissions are delayed beyond reasonable period by centralized admission competent authority.
- Delay in deceleration of result by university.
- Long duration of university examination
- Compact academic calendar with academic curricular and extra-curricular activities.
- Non-availability of time for beyond syllabus, add-on academic activities.

Institutional approaches

- To follow academic calendar strictly
- College timings 8.30 am to 3.30pm and 3.30 pm onwards for add- on, beyond syllabus and remedial classes.

- Inclusion of beyond syllabus, add-on courses/activities after academic hours including Saturdays
- Conduction of extra classes on holidays if required
- Use of ICT
- Collaborative learning
- Group assignment and activities

2.3.10 How does the institute monitor and evaluate the quality of teaching / Learning?

- **Quality**
  - Record of teachers, planning , execution in teachers diary
  - Monthly progress report from every subject teacher, class teacher ,head of dept., principal
  - Students feedback : mid-session and end-session, SRC
  - Students academic record
  - Performance in class test and university examination.
  - Students attendance in practical , laboratory
  - 360 degree performance based appraisal system.
  - Student parent meet
  - Meeting and mentoring from highly respected academicians who are not directly connected with the institution.
  - Appraisals of students projects from industry experts
  - Visits, interactions, mentoring and evaluation by industry experts
  - Mock interviews
  - Class monitoring by senior teacher for new teacher.
  - Suggestion box.

2.4 Teacher Quality

2.4.1 Provide the following details and elaborate on the strategies adopted by the college in planning and management (recruitment and retention) of its human resource (qualified and competent teachers) to meet the changing requirements of the curriculum

Table 2.4.1Qualification details of faculty

Highest Qualification	Professor		Associate Professor		Assistant Professor		Total*
	Male	Female	Male	Female	Male	Female	
Permanent teachers(Qualified and Regular Teacher)							
D.Sc./D.Lit	0	0	0	0	0	0	00
Ph.D	3	2	2	1	1	2	11
M.Phil	0	0	0	1	0	0	01
PG	0	0	2	0	37	32	71
*PG pursuing permanent teachers (Qualified & regular teacher)	0	0	0	0	5	0	5
Temperoray teachers							
Ph.D	0	0	0	0	0	0	0
M.Phil	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0
Part time teacher							
Ph.D	0	0	0	0	0	0	0
M.Fill	0	0	0	0	0	0	0
PG	0	0	0	0	1	0	1

*University Approved

- Approved teachers   : 43
- Regular (against vacant post) : 45
- Adjunct Professor/Resource persons from Industry   : 15

➢ **Recruitment and retention strategies**

1)   Catch them young

The promising students from final year engineering are encouraged for post graduation and during post graduation they are groomed, motivated and incentives are given to join teaching profession.

2)   Train the trainers

The senior faculty of the college is given in-house and external training, exposure, interaction through training programmes, conferences and seminars, workshops like mission 10X programmes , courses on teaching methodologies , visits to research laboratories , attending academicians of repute , continual education program . The trained senior faculties then in turn transfer their knowledge and mentor the young faculties.

The young faculty is inducted as regular teachers by proper selection process.

3)   Rewards and Incentives

The faculty is motivated to pursue higher education, publish technical articles in reputed journal are given incentives and rewards for performances.

4)   Conducive environment

The conducive environment is strategically ensured to feel freedom of expression, freedom to perceive the study , freedom to perceive area of interest.

5)   Implementation of Career Advancement Schemes for faculty and staff.

➢ **Recruitment: Planning and Processes**

Recruitment of teaching and technical staff is as per norms of AICTE/DTE and SGBAU Amravati. Requirement of staff is calculated on the basis of workload in both semesters (in the academic year) and accordingly, roster is finalized in consultation with SGBAU Amravati university.

i) In order to ensure quality in teaching, the institute follows the standard procedure of University in recruiting the staff. All positions are filled up by open competition.

ii) Applications are invited after the approval of draft advertisement from University, from eligible candidates through news paper, advertisement and publication of the same on institute website.

iii) Screening of applications is done by a scrutiny committee. Interviews are conducted by University selection committee. Committee recommends the candidates based on the performance shown in the interview.

iv) Any other instruction given or rule prescribed, from time to time, by AICTE & affiliated to Mumbai University, Mumbai regarding selection procedure will automatically form part of the rules/procedure of selection.

v) All temporary and ad-hoc appointments are based on the recommendations of the institute/local staff selection committee duly constituted and the criteria's of qualification and experience mentioned in AICTE norms are strictly

followed.

vi) However, in case of urgent need if well qualified persons are identified, direct recruitment is made by the local selection committee comprised of head of department and subject expert on full-time basis with regular pay scale.

> **Retention: Policies and processes**

i) Institute gives promotion, incentives based on the qualification, performance, and experience.

ii) A performance appraisal of the employees is carried out by the immediate head of the department, dean, principal and thereafter competent expert's decision on yearly basis.

iii) Timely promotion is considered strictly as per AICTE norms.

iv) Welfare scheme such as medi-claim for entire family, personal accident policy is provided.

v) Teachers are allotted subjects as per their area of specialization and preference.

vi) Institute deputes/sponsors faculty for higher studies, conferences, workshops, STTPs.

vii) Service flexibility is provided for higher education.

viii) Medical facility, stores and recreational facilities are made available.

ix) All sport facility of international level are provided to staff and their family members.

2.4.2 How does the institution cope with the growing demand/scarcity of qualified senior faculty to teach new programmes /modern   areas (emerging areas) of study being introduced (Biotechnology, IT, Bioinformatics etc.)? Provide details on the efforts made by the institution in this direction and the outcome during the last three years.

1) Institute identifies qualified senior faculty and/or experts in the emerging areas and involves them to fulfill the scarcity through adjunct appointment, and/ or expert lecture/sessions, invited lectures, workshop, industrial visits.

2) Institute organizes expert lectures by inviting the senior and experienced persons from research organizations, industries and academic institutes of importance.

3) Institute has signed MOU with IT companies, industries for exchange of expertise for the benefit of the society at large. Through this many lectures have been organized on advanced topics for the students and the resource persons were from these IT companies.

Following are the expert lectures arrange

Table 2.4.2Details of efforts taken by institute to be in the race of advancement and its outcome

Name	Field	Organization	Outcome
Dr.Nitin Ghatpande	Space research and satellitie communication	Ex. Brahmaprakash scientist, ISRO,Banglore	Knowledge,
Dr.Jaywant Ingle	Space programme	Ex. Scientist, ISRO,Banglore	Placement
Shri C.S.Kajwadkar	Application of Information technology in finance sector	Sr.Vice-President, Clearing Corporation of India Ltd. , Mumbai	Placement.
Mr.Mandar Kulkarni	Cloud computing	Microsoft India	Placement
Mr.Taral Shah	Software testing	Treshta	Knowledge, Placement.
Mr.Girish Dandige	Software Development	TCS	Knowledge, Placement,
Mr. Mangesh Bharti	Embedded systems	MDB Electrosoft	Knowledge
Mr. Suyash Zanwar	Software development	Effigrity Solutions .	Knowledge, Placement.
Dr.B.N.Jajoo	Ex principal HVPM	HVPM	Knowledge
Dr. Vishram Bapat	Ex HOD Electrical Dept Sihgad.	Sihgad Pune	Knowledge
Dr.Vasudha Kamat	Education technolgy	Vice Cha. SNTD Mumbai	Skills , Knowledge
Dr.Jayshree Shinde	Education Technolgy	-	Skills, Knowledge
Dr.Vijay Thakre	Forensic science and cyber security	Dep. Director, Forensic lab, Govt. of Maharahstra	Knowledge, Placement,
Mr. Shrikant Pande	Android Technology.	-	Knowledge.
Mrs. Gitanjalli	Cyber security	-	Knowledge, Placement,

Kunte			
Mrs.Ritu Malpani	Internet of things	Bryton	Knowledge, Placement,
Mr. Gunti	Internet of things	Digilab, Hydrabad	Knowledge, Placement,
Mr. Rolf	Sports management	German Tours and travels , Germany	Skills
Mr. Ashok Saraf	Android	-	Knowledge.

2.4.3 Providing details on staff development programmes during the last four years elaborate on the strategies adopted by the institution in enhancing the teacher quality.

Staff Development Programme:

a) **Nomination to staff development programmes:**

Table 2.4.3(a) List of staff development programs undertaken

Academic Staff Development Programmes	No. of Faculties Nominated			
	2016-17	**2015-16**	**2014-15**	**2013-14**
Refresher courses	**--**	**--**	**--**	**--**
HRD Programmes	**03**	**--**	**01**	**--**
Orientation Programmes	**02**	**--**	**07**	**--**
Staff training	**45**	**05**	**31**	**39**
Conducted by the university Staff training	**35**	**--**	**02**	**--**
Conducted by other institutions Summer/winter schools, workshops, etc	**37**	**20**	**24**	**27**

b) **Faculty Training programmes organized by the institution to empower and enable the use of various tools and technology for improved teaching-learning**

1. **Teaching learning methods /approaches**

   a) Use of Digital Resources

   b) Flip class room lecture

   c) Induction programme

2. **Handling new curriculum**

   a) 2 weeks ISTE Sponsored STTP Programme

   b) Green technology workshop

   c) Workshop on Skylab, MATLAB

d) Green Technology

3. Content/knowledge management

a) Use of E-repository

b) How to access e-journals

c) Academic diary, session & Teaching Plan

d) Digital evaluation

4. Selection, development and use of enrichment materials

a) Use of advance s/w testing tools

b) Android OS application

c) VLSI

d) Workshop on Know your subjects

e) MOOC Courses

f) Swayam Courses

g) NPTEL video

h) Prerequisite and analysis

i) Application design

5. Assessment

a) Evaluation of projects from external experts

b) Assessment of students from external agency

c) Hackathon

d) Quiz

e) Project competition

6. Cross cutting issues

a) Deputation of faculty for curriculum

b) Syllabus development workshop

c) Industry required beyond syllabus curriculum development

7. Audio Visual Aids/multimedia

a) PPT.

b) LCD Projector

c) Skype session

d) Webinar

8. OER's (Open educational resources)

Use of open course material from,

a) E-books

b) You tube

c) SWAYAM

d) MOOC

e) NPTEL

f) E-journals,

g) Use of Padlet

h) Slideshare

9. Teaching learning material development, selection and use

a) Lab manuals

b) Books written

c) Provide useful linkage for self-learning

d) Development of beyond syllabus course material for domain areas of:-

RIMM, S/w testing and validation of course contents from user industry, conduct of course for minimum 240 hours and enhancement of placement of students.

c) **Percentage of faculty**

- Invited as resource persons in Workshops / Seminars / Conferences organized by external professional agencies :

Table 2.4.3(b) Details of faculty members being invited as resource persons

Sr. No.	Academic Year	Name of Eminent Person	Contribution to Institute
1	2015 -2016	Dr. A. B. Marathe	UGC Academic Staff College SGBU Amravati)
		Dr. U. A. Kshirsagar	UGC – Human resource development center, SGBAU, Amravati.
			VNIT, Nagpur
			G. H. Raisoni, college of engg. And Management, Amravati
			DCPE,HVPM's, Amravati
			IETE-NTPC-2016
			Global Advanced Research Publication House, Amravati
2	2014 -2015	Dr. U. A. Kshirsagar	V-chip design and training pvt, ltd
		Prof. A. P. Vartak	Dr.Panjabrao Deshmukh Girl's Polytechnic, Amravat
			UGC- Academic staff college, SGBAU, Amravati

		Dr. U. A. Kshirsagar	BhartiyaMahavidhyalay, Amravati
			EECO, P.R. Patil Institute of Poly. & Tech., Amravati
3	2013-2014	Dr. U. A. Kshirsagar	P. R. Pote(Patil) Education & welfare Trust's, Group of Institution, College of Engg and Mang., Amravati
			Sipna college of Engg. and Tech., Amravati
			Sipna college of Engg. and Tech., Amravati
			EECO, P.R. Patil Institute of Poly. & Tech., Amravati
4	2012-2013	Dr. U. A. Kshirsagar	Polytechnic, Badnera
			Sipna college of Engg. and Tech., Amravati
			P. R. Pote(Patil) Education & welfare Trust's, Group of Institution, College of Engg and Mang., Amravati
			DCPE,HVPM's, Amravati

- **Participated /presented papers in external Workshops / Seminars / Conferences recognized by national/ international professional bodies**

Table 2.3.4(c) Details of faculty members who attended various seminars, conferences etc.

Sr No.	Name Of Activity	Department	Date	Sponsoring Agency/self sponsored
1	FPGA based Image Processing & VLSI	EXTC	13th june 2016 to 22nd 2016	Self
2	Undergraduate engineering programs(TIER-II)	EXTC	8th Aug 2015	Self
3	Entrepreneurship	EXTC	09-Sep-15	Self
4	Visit & Seminar of ISRO Scientist Mr. Ghatpande on "Mission of Mars" on	CMPS	24th & 25th of January 2015	Self
5	"STUDY TOUR" of HVPM Staff at United Arab Emirates(U.A.E.)	CMPS	18th Jan to 24th Jan 2014.	Self
6	ISTE Approved Two weeks Short Term Training Program On "IMAGE PROCESSING, ARTIFICIAL INTELLIEGENCE AND ITS APPLICATIONS"	CMPS	During 18th – 27th Nov 2013.	Self
7	Expert Lecture by Dr. N. L. Sarda, Professor IIT Mumbai on topic	CMPS	Dated 26th Nov 2013	Self
8	Faculty Training at IBM Pune under IBM India University Relations Program on	CMPS	2nd to 6th Dec 2013	Self

	"Industry trends in Computer Science & Information Technology"			

2.4.4 What policies/systems are in place to recharge teachers? (eg: providing research grants, study leave, support for research and academic publications teaching experience in other national institutions and specialized programmes, industrial engagement etc.

The following policies are adopted to recharge the teachers:

1. **Industrial Engagement**

   Train the students through Core technical Area (CTA) and tie-the industries based on it.

2. **Teaching experience in to the national institutions** :-

   a. Expert lecture in Govt. College of Engineering Amravati By Dr. U. A. Kshirsagar

   b. Expert lecture in Govt. College of Engineering Amravati By Prof. V. L. Agrawal

   c. Prof. R. M. Sahu and Prof. S.V. Khond as Expert teacher for Sport management at Colombo, Srilanka.

   d. Dr. P. L. Ramteke as an expert Lecture conducted at PG Department SGB Amravati University, Amravati

   e. Prof A. J. Khambare has carried out expert sessions at SIPNA Engineering college in Amravati for Electrical Subject.

   f. Prof. A. E. Bhande conducted his expert talk on personality development at P. D. Polytechnic College, Amravati.

   - **List of Lien teachers**-

     1. Prof. S. V. Rode

3. **Support for research and academic publications**
   a) All paper Publication journal/conferences.
   b) University academic staff college.
   c) Waste management, renewable energy.

2.4.5 Give the number of faculty who received awards / recognition at the state, national and international level for excellence in teaching during the last four years. Enunciate how the institutional culture and environment contributed to such performance/achievement of the faculty.

The list of faculties who received awards/recognition are tabulated as under

Table 2.4.5 List of faculties who received awards / recognition

Name	Recognized by	Category	Year
Dr. A. B. Marathe	Computer Society of India	As a distinguished Principal. Vasundhara Nomination for CII best Innovation Award	2017
Dr. U. A. Kshirsagar	SGBAU, Amravati	Project under research category	2016
Prof. V. L. Agrawal	SGBAU, Amravati	Project under research category	2016
Prof. A. M. Jaiswal	SGBAU, Amravati	Project under PG category	2016
Prof. S. V. Khond	Vision next foundation Nagpur	Best essay Award	2015
Prof. H. P. Oak	SGBAU, Amravati	Project under PG category	2015
Prof. Y. Rochlani	SGBAU, Amravati	Project under PG category	2015
Prof. Javeriya Naaz	SGBAU, Amravati	Project under PG category	2015
Dr. P. L. Ramteke	SGBAU, Amravati	Project under research category	2014
Prof. N. A. Rathod	SGBAU, Amravati	Project under PG category	2014
Prof. A.B. Kharate	Govt. of Maharashtra and SGBAU, Amravati	Best programme officer award	2013

The Institutional culture and environment contributed to such performance/achievement of the faculty

- Missionary culture of century old founder trust

- Horizontal organizational behavior (No Hierarchical barrier)

- Dignity of Individual and respect for work

- Student centric system

- Strong Industry- Institute Interaction

- Attribute of commitment and dedication

- Availability of IT Infrastructure including high speed Internet and latest Computer system

- Culture of adoption and adaptation of new development

- Environment Culture to learn

- Societal concept
- No rate tepisium for proposals
- Delegation of authority and responsibility

2.5 Evaluation Process and Reforms

2.5.1 How does the institution ensure that the stakeholders of the institution especially students and faculty are aware of the evaluation processes?

The Institution ensures and makes the stakeholders, specially students and faculty aware of the evaluation processes by following measures:

1. Every year student's academic diary is published and given to each and every student of college. The academic diary contains academic calendar, assignment schedule, unit test schedule, examination, evaluation scheme, and distribution of marks. Additionally the time table of semester and end semester examinations is also published well in time on website of college.

2. The university publishes copy of curriculum of syllabus. It contains teaching and examination scheme, distribution of credits and marks, pattern of question paper, method of practical and practical examination, distribution of marks, scheme of revaluation, incentive marks, grace and condonation marks.

3. The above information is in public domain as well as widely published and is printed in student's academic diary.

2.5.2 What are the major evaluation reforms of the university that the institution has adopted and what are the reforms initiated by the institution on its own?

The major evaluation reforms of the university that the institution has adopted are as below:

1) Unitization of syllabus

2) Continuous evaluation system i.e. internal assessment by college 20% theory and 50% for practical and university end semester examination of 80% theory and 50% external practical examination.

3) On screen end examination theory paper evaluation.

4) On line question paper delivery system for end semester examination.

5) On line submission of internal assessment marks and external practical examination marks.

6) Evaluation of the student for the subjects of environmental science. Question paper is given by college and evaluation is done as well.

Evaluation Reforms done by Institute on its own:

1) Evaluation of student by external agency for Communication skill, Aptitude, Core technical knowledge for employability enhancement scheme, Internship and evaluation of internship projects by industry experts.

2) Technical competition like Hackathon monitored by industry experts.

3) Group assignments, subject seminars, mini-projects

4) Class test, Quiz

5) Remedial test.

6) Internal work submission.

7) Project report for the subjects like environmental studies.

8) Use of Language lab for communication skill evaluation.

2.5.3 How does the institution ensure effective implementation of the evaluation reforms of the university and those initiated by the institution on its own?

a) The Institution ensures effective implementation of the evaluation reforms of the university by following ways:

- A separate team with officer in charge teacher is formed to study, to plan, to implement and to co-ordinate for implementation of reforms

- The reforms are effectively communicated to students and faculty through regular college council meeting, departmental meeting and principal meeting

- The administration is given training on the reforms

b) The evaluation reforms initiated by Institutions on its own are mentioned as below:

- The short comings and weaknesses are identified by mentors, Head of the Departments, T & P officer in consultation with stake holders like Industry

- A strategy is planned to find out the gap between expectations and capability of the students and faculties by conducting test, counseling sessions by external agency

- A structured program is designed to implement the scheme of employability enhancement, personality development, to update the knowledge to required level
- Mock tests, post training assessment, presentations, and internship evaluation is carried out by internal as well as external experts
- Regular communication with parents about the performance of their wards

2.5.4 Provide details on the formative and summative assessment approaches adapted to measure student achievement.

1. Details of formative and summative approaches adopted to measure student achievements are:
    - (Aspiring mind and other agencies) - Pre-training and post-training assessment test
    - Pre-course, short training in core technical areas and assessment test to identify trainable students
    - Continuous assessment of identifying trainable students in core technical areas chosen by students
    - Assessment by giving post-training internship, preferably by experts in industry
2. Achievement of students
    - Employability enhancement
    - Selection of students at University, State, National level competitions like Avishkar , Hackathon organized by University
    - Gold Medal, Merit ranking and other academic achievements
    - Improvement in soft skills, problem solving attitude and confidence building
3. Few examples which have positively impacted the system are tabulated below:

Table 2.5.4 Details of formative and summative approaches adapted

Aspiring Mind Pre-assessment test	Training	Post Assessment
• Weaknesses identification, Communication skills, Soft skills , Verbal , Logical aptitude	• Communication • Soft skills • Aptitude training	• Visible improvement

• Industry identified Employability gap (Readiness to employ)	• Core technical areas beyond syllabus	• Significant placement enhancement
• Identification of slow learners	• Remedial class • Remedial tests	• Improvement in academic results

2.5.5 Detail on the significant improvements made in ensuring rigor and transparency in the internal assessment during the last four years and weightages assigned for the overall development of students (weightage for behavioral aspects, independent learning, communication skills etc.)

The significant improvements made in ensuring rigor and transparency in the internal assessment by following ways:

1) Display of internal assessment marks.

2) Communicating student's attendance and performance to the parents regularly.

3) Parent meetings are regularly arranged for face to face communication.

4) Provision of getting photo-copy at the University examination and College examinations.

5) IQAC cell monitoring the centralized internal examination and evaluation.

6) IQAC monitors project evaluation by calling faculty of different dept.

7) Internship projects are evaluated by external experts.

8) Data of all students including behavioral aspects, interest, involvement, communication skills is maintained by the class teacher for all eight semesters.

9) Internal assessment policy is publicized and made known to all the students in advance.

2.6 Student performance and Learning Outcomes

2.6.1 Does the college have clearly stated learning outcomes? If 'Yes', give details on how the students and staff are made aware of these.

Yes, the College has clearly stated learning outcomes which are as follows:

Table 2.6.1Details of Institute's core learning outcomes

Core Learning Outcomes	Employability Enhancement Outcomes
Identify, Formulate, and solve technical / Engineering problem	Integrity
Design a system, component, or process to meet desired needs	Self Discipline

Use appropriate/modern tools, equipments and techniques	Reliability
Apply knowledge of mathematics, Science and Engineering	Self Motivation
Acquire knowledge of contemporary issues	Team work
Develop Creativity	Understanding and taking Decisions for work assignments
	Willingness to learn
	Flexibility
	Empathy

Details:

1) In induction program and College council meeting faculties are made aware of the working of programme. Students are addressed about this in SRC meeting.

2) All outcomes are printed in student's academic diary and faculty academic diary.

3) Students are also motivated during various training and placement related activities, workshops, training programs.

4) All outcomes are displayed on college notice board and at prominent places in the campus.

5) Learning outcomes displayed on College web-site.

2.6.2 Enumerate on how the institution monitors and communicates the progress and performance of students through the duration of the course / programme? Provide an analysis of the student's results/achievements (programmes / course wise for last four years) and explain the differences if any and patterns of achievement across the programmes / courses offered.

The Institution monitors and communicates the progress and performance of students through the duration of course / programme:

- **Monitor**

1) College has a Card system with purpose of Know your students which gives all information of students.

2) Examination result for each subject is analyzed thoroughly.

3) Student's performance is monitored by class teacher and Head of Department.

4) Student's performance is monitored by Unit Test, class test and performance analysis and it is informed to their parents.

5) Progress is monitored by subject teacher regularly.

- **Analysis of students result for VIIIth semester : (Percent wise and subject wise):**

Table 2.6.2(a) Analysis of students result for VIIIth semester: (Percent wise and subject wise)

Name of Department	Academic Year	Name of Subject						Overall Result in %
		AI	ES	SE	NS	MC	---	
Computer Science & Engineering	2015-16	99.13	99.13	99.13	98.24	100		98.27
	2014-15	96.00	99.00	99.00	99.00	---		95.05
	2013-14	92.66	97.25	97.25	88.99	---		86.24
	2012-13	DSP	SE	MMT	IT	---	---	83.91
		89.66	89.66	89.66	94.25	---	----	
Electronics & Telecommunication Engg.		**Name of Subject**						
		UHF	ECD	WC	BM (E-1)	DIP (E-2)	ARM	
	2015-16	89.00	96.00	78.00	97.00	---	---	77.39
	2014-15	95.04	96.69	98.34	89.83	100	100	87.60
	2013-14	98.26	99.15	94.02	96.15	90.00	---	93.16
	2012-13	UHF	ECD	CN	SAT COM	WC	---	82.05
		88.16	84.21	94.74	90.91	96.88	---	
Information Technology		**Name of Subject**						
		DWC	NAS	SE	WCOM	Dataware housing	---	
	2015-16	97.00	91.00	98.00	100	---		91.00
	2014-15	95.56	97.78	100	95.45	100		95.56
	2013-14	95.45	97.73	97.73	90.91	---		90.91
	2012-13	DSP	NAS	ECOM	IT	---		76.74
		91.86	80.23	96.51	89.53	---		

- After conducting the unit tests, marks obtained by students are analyzed to understand student performance. Continuous assessment is done through retests, assignments
- Remedial classes are provided to needy students
- Academic progress of students is conveyed to their parents within the semester
- Feedbacks from students are taken during midsession and at the end of session. Primitive measures are taken by Institute according to feedback given in SRC meet
- Feedback from stakeholders also helps to achieve learning outcomes
- The University examination result for each subject is analyzed thoroughly

- **Achievement of the students:**

The top University rankers are given accolades so as to encourage them. Some of the details regarding university rank holders are listed below:

Table 2.6.2(b) Result details of University rankers

Name of Department	Academic year	Name of students	University Rank	CGPA score / marks
Computer Science & Engineering	2015-16	Ku. Sapana A. Churare	1	9.43
		Ku. Shiba T. Sheikh Vazir	4	9.23
	2014-15	Ku. Sanjana P. Dhanorkar	2	9.21
		Ku. Uroojussama Abdul Waheed	3	9.19
		Ku. Ashna Rukhsaar Mohammad Ashfaque	5	9.09
	2013-14	Ku. Priyanka Pursani	2	8.81
	2012-13	Ku. Pooja S. Dhole	1	1098/1350
Electronics & Telecommunication Engg.	2015-16	Ku. Huda Anum Abdul Majid	6	9.12
		Ku. Trupti A. Bidwai	7	9.09
	2014-15	Ku. Anupriya P. Mishra	2	9.38
		Mr. Abhijeet V. Sarkate	9	9.10
		Mr. Atul P. Dhoke	10	9.07
	2013-14	Ku. Zebunissa Abdul Mobin Shakir Sheikh	1	9.40
		Ku. Madhavi R. Mendhe	7	9.07
	2012-13	Mr. Vaibhav Kalhane	1	1051/1300
		Mr. Yukesh M. Kapgate	2	1048/1300
Information Technology	2015-16	Ku. Madhurika S. Pendke	7	8.73
	2014-15	Ku.Poonam M Sharma	2	9.11
	2013-14	---	---	---
	2012-13	Ku.Sapana A. Gawande	3	1065/1350
		Ku. Sneha V. Kalbande	6	1055/1350
		Ku. Javeria Naaz Ishtiyaque Syed	7	1050/1350

- **Placement Data:**

Table 2.6.3 Data of students placed through campus (Department-wise and academic year wise)

Name of Department	Academic Year	No. of placed students
Computer Science Engineering	2016-17	15
	2015-16	25
	2014-15	15

	2013-14	29
	2012-13	26
Electronics and Telecommunication	2016-17	05
	2015-16	23
	2014-15	51
	2013-14	09
	2012-13	08
Information Technology	2016-17	03
	2015-16	14
	2014-15	10
	2013-14	10
	2012-13	19

The placement of the students of different branches are shown department-wise by following bar charts
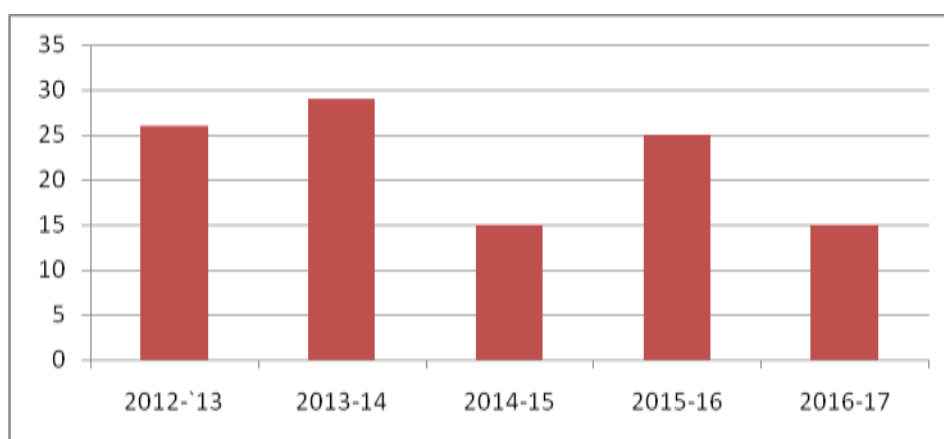
Fig. 2.6.3(a) Data of students placed through campus (Computer Science & Engg.)
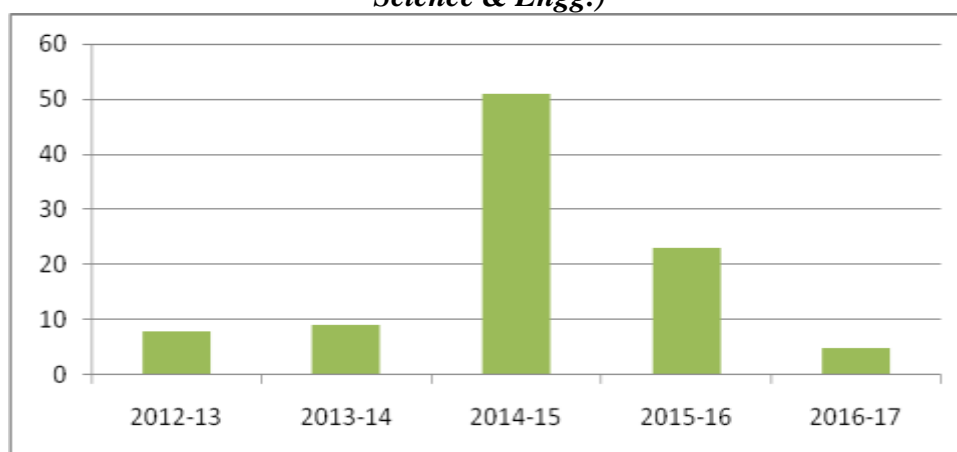
Fig. 2.6.3(b) Data of students placed through campus (Electronics & Telecommunication Engg.)
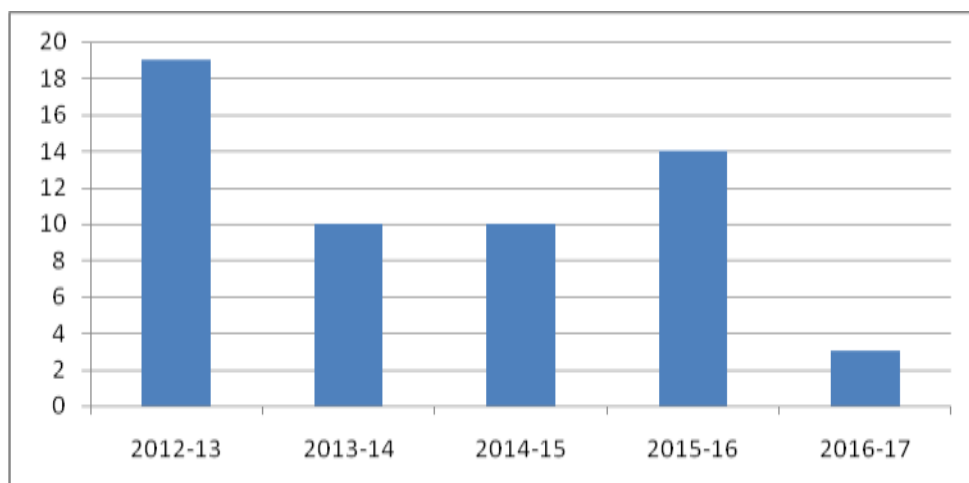
Fig. 2.6.3(c) Data of students placed through campus (Information Technology)
The reasonable uniformity is observed in performance of students. The difference in progress and achievement of all program and courses does not appear to be significant.

2.6.3 How are the teaching, learning and assessment strategies of the institution structured to facilitate the achievement of the intended learning outcomes?

Teaching Strategies:
1) Induction of qualified teachers.
2) Training should be provided to young teachers and monitored them.
3) Continuous faculty development programme in the area of teaching methodology.
4) Advance knowledge.
5) Student evaluation systems and core subject knowledge are also part of teaching strategies.
6) Integration and orientation of teachers with mission, vision, goals and objectives and desired education outcomes of the trust and the Institutions.
7) Providing ICT infrastructure for teaching and learning process.

Learning strategies:
1) Student centric system.
2) Preparing students for self learning and pro-active approaches.
3) Involvement of adjunct faculty, resource persons from industry for learning by objectives.
4) Group learning, blended learning and participative learning strategies.

5) Special provision for learning in beyond syllabus, employability enhancement, technical knowledge and other skills.

6) Organization of co-curricular and extra-curricular activities, cultural festival, technical festival and sport festival to learn life skills.

Assessment strategies:

1) Pre-training assessment, Post-training assessment by internal and external systems.

2) Continuous evaluation and performance, assessment information is provided to students and parents.

3) Centralized internal assessment examination by separate cell is done.

4) Students are encouraged to participate in university, state, national level project competition.

2.6.4 What are the measures/ initiatives taken up by the institute to enhance the social and economic relevance (students placement, entrepreneurship, innovation and research aptitude developed among the students etc.) of the courses offered?

The following measures/ initiatives are taken up by the Institute to enhance the social and economic relevance:

1) Formation of separate Training & Placement cell.

2) Employment enhancement training is designed, developed and implemented with the help of Industry.

3) Placement brochure is printed and distributed to the Industry.

4) Senior faculty and Head of Departments visit and interact with Industry experts to understand their requirement and accordingly guide the students for placements.

5) Industry experts are invited to conduct workshops, technical expert talks and project competition on relevant industrial problems.

Entrepreneurship:

1) Entrepreneurship Development Cell is formed.

2) Faculty is deputed for training.

3) Successful entrepreneurs are invited for motivation.

Innovation and Research aptitude development:

1) Faculty identifies the student with research/innovation aptitude

2) Special training is given by faculty in the areas of interest of the students.

3) Mini/Major projects are developed by the students under the guidance of faculty.

4) Students are encouraged to participate at University, State, National levels.

5) The success stories are highlighted in College magazine.

6) Laboratory and other facilities are extended to the students**.**

7) Advanced technology infrastructure is established for students.

Student placement:

1) Training and Placement cell is established to enhance employability of the students.

2) Training and Placement cell conducts various training programs to increase employability of the students.

3) Every department appoints faculties for various training programs to enhance skill sets of students with the help of Training and Placement cell.

4) Institute has various cells which identify the student's domain and train them for quality jobs.

5) Guest lectures by industry experts are arranged to gain good knowledge in the relevant courses.

6) Students are encouraged to do projects with social and economic relevance.

7) A teacher from institute undergoes special training in industry to give additional support to students for quality jobs.

Enhance Social Relevance:

1) Formation of social club like 'Srujan' (orphanage, old-age homes, Red-ribbon club).

2) AIDS awareness programme.

3) NSS programme for sanitization in rural areas, conservation of nature and environment, tree plantation, blank –page bank, solar energy.

4) Programme on Value added education and awareness of gender equality.

5) Farmer's awareness programme (problems of drought prone areas and farmer suicidal tendencies).

6) Students work for Child help line, women help line.

7) Self defense programmes for girls are organized in college.

8) National integration and social integration program like 'Dashera festival'.

9) International relation programme.

10) Encouragement for active participation and useful activities of various social groups formed in the College.

11) Sharing and extension of educational and sports facilities to adjoining Institutions of under privileged societies.

CRITERION-III

RESEARCH, CONSULTANCY AND EXTENSION

3.1   Promotion of Research:

3.1.1 Does the Institution have recognized research center/s of the affiliating University or any other agency/organization?

Yes, The Institute has recognized Research Center of Sant Gadge Baba Amravati University, Amravati for the subject of Chemistry and applied for recognition of research Centers for the subjects of Computer Science & Engineering, Electronics and Telecommunication Engineering as per revised ordinances of University.

3.1.2 Does the Institution have a research committee to monitor and address the issues of research? If so, what is its composition? Mention a few recommendations made by the committee for implementation and their impact.

- Yes, the institute has a Research Review Committee namely H.V.P.M's COET RRC to monitor and address the issues of research, innovation and internship projects. It plays an active advisory role to identify domain areas with experts, to improve the quality of research & development and internship projects. The board formulates and implements policies and encourage faculty to pursue research in identified domain areas of their interest & expertise and also to mentor the students during internship & for indulging in innovation work.

- **Some of the recommendations made by the Committee:**
    - To promote and develop research culture in the institution
    - Wherever required, RRC will work in association with IQAC.
    - To involve domain industry experts in formulation of problem statement.
    - UG, PG students and faculty should participate in research project competitions like Avishkar, Hackathon every year.
    - PG projects reviewed by RRC before submission to S.G.B. Amravati University, Amravati.
    - To develop advance research facility for identified domain areas.
    - To organize at least one Tech-fest and a Training program.

- ▪ Faculty should regularly publish research papers in peer reviewed standard journals listed in Thomson Reuter's list.
- ▪ To apply for funding/research grants under various research scheme of various funding agencies.

- **The Impact of recommendations made by Committee:**
  - ▪ Every year at least two faculty members are getting awarded by Ph.D. degree from SGB Amravati University, Amravati or other than home University.
  - ▪ Receipt of grants under MODROB scheme of AICTE and PRISM scheme of DSIR, New Delhi.
  - ▪ Technology developed in institution is implemented by Amravati Municipal Corporation that is directly leading to societal benefit through technological advancement.
  - ▪ Filing of Patents.
  - ▪ An average 20 no. of research publications are getting published in reputed journals.
  - ▪ Students/Teachers participation in research activities, project competitions and Paper publications at University, State, National and International level.
  - ▪ Winner in research contest namely, 'Avishkar' every year.
  - ▪ Internship projects development up to the satisfaction level of industry.
  - ▪ Organization of STTP/Training programs/Workshops on emerging technological areas.

3.1.3 What are the measures taken by the Institution to facilitate smooth progress and implementation of research schemes/projects?

a. **Autonomy to the Principal Investigator**

Institute provides autonomy to Principal Investigator, to select research problem, collaborate, associate and facilitate resource mobilization for research.

b. **Timely availability or release of resources**

As per the requirement of Principal Investigator and sanctioned budget, the amount is released by the Institute.

c. **Adequate Infrastructure and Human Resources**

Separate research labs are made available with computing facilities, internet, library, workshop etc. to the researchers/ investigators/innovators. Human

resources in the form of Industry experts, research associates, technical and skilled manpower are made available as & when needed.

d. Time-off, reduced teaching load, special leave etc. to teachers

Yes, special leave, time-off during working hours, reduced work load, travel supports etc. are extended.

e. Support in terms of Technology and Information needs

- The Institute has dedicated lease line of 50 Mbps for internet connectivity for computer Centre, 20 Mbps for library and 20 Mbps for administration. Additionally, Wi-Fi facility 24x7 is available.

- All Departments have sufficient number of computers with Internet and login credentials to access e-resources.

- The Institute has Rational Rose servers, MATLAB, XILINX, NETSIM, QUARTUS and Statistical Simulation Software.

- Institute encourages teachers to undergo training programs and various knowledge transfer workshops.

- Central library has facilities such as:
  - Reference Books (Monograph, treaties, Conference Proceedings, Annual Reports, Handbooks, Standards etc.)
  - National Digital Library under IIT Kharagpur
  - E-resources
  - Research paper access using J-gate plus and Proquest.
  - Information Search Facility.
  - Photocopy Services.
  - Scanned copies of useful article are circulated or mailed to faculties.

f. Facilitate timely auditing and submission of utilization certificate to the funding authorities

The accounts department of the Institution facilitates maintenance of books of accounts, preparation of account statements and for auditing of accounts from Chartered Accountant to help submission of utilization certificate to the funding authorities.

g. **Any others**

- Exposure to outside world to study the implementation of similar projects, interaction and consultation with experts is facilitated through visits.
- Providing utilities like electricity, water, space, and infra-structure whenever needed.

3.1.4 What are the efforts made by the Institution in developing scientific temper and research culture and aptitude among students?

The Institute makes efforts to organize the activities like Tech-fest, project competitions, workshops, expert talks, conferences and training programs for all students to conceptualize, design, implement and present novel ideas. Interaction sessions are arranged for students with eminent scientists, academicians from various Institutes and Industries. Students are motivated to participate in inter-collegiate, inter-university project and technical competitions at various levels.

Mr. C. Kajwadkar, Senior Vice President, CCIL, Mumbai, Dr. Nitin Ghatpande, Ex. ISRO Scientist and team member of Mission on Mars (MOM), Dr. Vishram Bapat, Senior Professor from Pune and many others had interacted with students. National laboratories and R & D centers like ISRO, Data Centers and FAB Labs etc. visits are regularly arranged for Students and Faculties. This helps to develop research aptitude, research culture and scientific temper among students.

3.1.5 Give details of the faculty involvement in active research (Guiding student research, leading Research Projects) engaged in individual/collaborative research activity etc.

There are two recognized Ph.D. research guides; and three more faculty members have applied for getting recognition as a Ph.D. Supervisor in the Research domain for the broader subjects of Computer Science, IT and Electronics & Telecommunication Engineering. The engrossment of many other faculty members in plethora of research projects at UG and PG level is listed in the table below.

Table 3.1.5: Faculty Involvement in active Research:

Sr. No	Research Activity	Engaged in Research Activity	Faculty/ Collaborative Organization Involved
1	Ph. D. registered: 03 Ph. D. Awarded: 01 Ph. D. Under Process: 02	Individual	Dr. A. B. Marathe
2	Municipal Solid Waste (Organic) Management	Collaborative	Dr. A. B. Marathe , Waste Bin Solution Nagpur & Amravati Municipal Corporation
3	Plastic Waste Management	Collaborative	Dr. A. B. Marathe, Waste Bin Solution Nagpur & Amravati Municipal Corporation
4	Memristor Design & Fabrication using Nano Technology and two other projects	Collaborative	Dr. U. A. Belorkar, Ms. Jinal Tapar & IIT Bombay
5	Research Lab Modernization	Collaborative	Dr. U. A. Belorkar & MODROB
6	Battery less Solar Power Generation	Collaborative	Dr. A. B. Marathe, Mr. S. V. Khond and Samved Energy Pvt. Ltd. Pune
7	Study of Orphanages in Amravati City	Collaborative	HVPM COET & SGB Amravati University, Amravati

3.1.6 Give details of workshops/training programs/sensitization programs conducted/organized by the Institution with focus on capacity building in terms of research and imbibing research culture among the staff and students.

Institute takes initiatives to inculcate research culture among faculties and students by conducting workshops, training programs and research activities every year. Following are different workshops, training programs, sensitization programs conducted/organized by the Institution. A year-wise list of Programs organized with focus on research and Research Culture are given below.

Table: 3.1.6(a) List of research oriented programs held during year 2016-17

Sr. No.	Type of Program Organized	Date	Duration
1	**"Orientation Program for faculty"** By: Dr. Vishram Bapat, Ex. Professor & Head, Department of Electrical Engineering, Sinhgad Institute of Technology, Lonavala	22nd June - 23rd June 2016	Two days
2	FPGA based Image Processing & VLSI	13th June -22nd June 2016	Two weeks
3	**"Industry Institute Interaction for Projects Initiative"** By: Mr. Ashok Saraf, Consultant in Multinational Company, Pune	24th June - 26th June 2016	Three days
4	Expert TalkFor faculty, Staff and Students on **"ISRO : Its Mission &Completion"** By Dr. JayavantIngale, Ex-Scientist at Indian Space Research Organization	07th July, 2016	One day
5	**Summer Internship program (SIP) Project Review** By: Mr. Narayanan and Mr. C. Kajwadkar.	23rd and 24th October, 2016	Two days
6	Expert Talk on **"Cyber Security"** By: Mr. Chaitanya Kunthe, Mrs. Dipanjali Kunthe from Risk Quotient Consultancy Pvt. Ltd., Vashi Navi Mumbai, Mr. C. Kajwadkar, Vice President, CCIL, Mumbai.	24th September, 2016	One day
7	Expert Talk on **"Cloud Computing"** By: Mr. Girish Dindike, Program Director, Tata Consultancy Services, Thane and Invited talk by Mr. Mandar Kulkarni, Director – Cloud and Datacenter Programs, Operations, Microsoft Corp. (India) Pvt. Ltd.	02nd October, 2016	One day
8	Workshop on, **"Internet of Things Using Android Programming"**	3rd -5th October, 2016	Three days
9	Students Visit to **Cyber Cell** at Amravati Division	24th October 2016	One day
10	STTP on **"Big Data Analytics"** Resource Person : Mr. Tushar Kulkarni, MITU, Pune	15th Dec – 24th Dec 2016	Two weeks

Table: 3.1.6(b) List of research oriented programs held during year 2015-16

Sr. No.	Type of Program Organized	Date	Duration
1	Workshop on **"ASP DOT NET Technology"** By: A.M. Kabra, JK Innovative Pvt. Ltd, CAD DESK, Amravati	31st July 2015	One day
2	Techno–buzz Expert Talk on **"Accessing the e-learning Resources"** By : Dr. U.A. Kshirsagar (Belorkar)	06th August 2015	One day
3	Workshop on "Trends in VLSI"	24th August 2015	One day
4	Workshop on **"PHP and Joomla"**, By- SSIT Pvt. Ltd., Nagpur	24th & 25th August 2015	Two days
5	Workshop on **"Awareness of Various Sectors where Mechanical Engineers can Contribute"** By: Mr. Sumeet Malpani, Mr. Makrand Terkar, Mr. Swapnil, Techno talk Engineering, Pune.	01st September - 05th September, 2015	One week
6	Workshop on **"Ek Nayi Khoj"** By: Sheikh Jahangir, Rancho of Movie 3 Idiots	23rd September, 2015	One day
7	Workshop on **"Quadcopter"**	6th October 2015- 7th October 2015	Two days
8	Workshop on **"Awareness about and Importance of Aptitude Test"** By: Mr. Rishi Chourasia, Founder and Director, Online Vikalp Education, Mumbai and Mr. Anant Farkade, Director, Online Vikalp Education, Nagpur	08th October, 2015	One day
9	Industry Visit to RGen technology, SHATAM technologies Solutions, Nagpur.	05th November, 2015	One day
10	45th ISTE Annual National Convention and International Conference on **"Challenges & Opportunities in Technical Education in the era of Sustainable Development"**	09th , 10th and 11th January, 2016	Three days
11	**AMCAT Awareness Program** By: Mr. Zee Ali, Head Institute Relationship, West Region, Aspiring Mind Assessments Pvt. Ltd., New Delhi.	09th March, 2016	One day
12	Expert Talk on **"National and International Industry's perspectives and expectations from Engineering Education"**, By: Mr. Vikas Gadre, Ex. Director General at Bombay Chamber of Commerce and Industry.	14th May, 2016	One day

Table: 3.1.6(c) List of research oriented programs held during year 2014-15

Sr. No.	Type of Program Organized	Date	Duration
1	STTP on **"Software Engineering"** conducted by IEEE Society	23rd June to 3rd July 2014	Two week
2	**Seminar on "Data Warehouse and Web Mining",** By: Zuber Qurasi, Escurve Solution India Pvt. Ltd, Akola	03rd February, 2015	One day
3	**Discussion for Idea Incubation** Industry R & D By: Mr. Gadre, Mr. Patankar, Mr. Jakate, Mr. Kajwadkar	25th & 26th April 2015	Two days

Table: 3.1.6(d) List of research oriented programs held during year 2013-14

Sr. No.	Type of Programme Organized	Date	Duration
1	Techno Buzz Talk on, **"Four Absolutes of Quality Management"** By: Dr. V. R. Katkhede, Professor MBA	29th June, 2013	One day
2	Seminar on **"Technical Write Up and Presentation of Seminar"** By: Dr. B.N. Jajoo (Tech. Advisor)	18th July, 2013	One day
3	Seminar on **"Software Testing"** By: Ms. Neelima Giri, STQL Education Pvt. Ltd.	19th July, 2013	One day
4	Seminar on **"Guidance on Academic Project"** By: Mr. Ranjan Pani (Pearson Edu. Services Pvt. Ltd.)	22nd July, 2013	One day
5	Workshop on **"Advance Intelligence Robotics"** In association with UV Softs Technologies, New Delhi and Pravega, IISc, Bangalore	05th & 06th August, 2013	Two days
6	**"National Network Security Championship for Computer Machinery"** By: IIT Delhi	03rd & 04th August, 2013	Two days
7	Workshop on **"Advanced Intelligence Robotics"**	05th August, 2013	One day
8	Seminar on **"Computer Languages"** By: Mr. Sachin Shukre, Seed InfoTech Pune.	06th August, 2013	One day
9	Conference on **"Green Technology: Scientific & Engineering. Solutions to Environmental Issues"** in association	02nd October, 2013	One day

	with Institute of Engineers, Amravati, Satpura Foundation, Kirloskar Vasundara, Nature conservation Club, Indian Water Works Association.		
10	STTP on 'Image Processing, Artificial Intelligence and Its Applications"	18th- 27th November, 2013	Two weeks
11	Awareness Program on "Cyber Crime" By: Mr. Manish Kumar, Vioal E-Learning Pvt. Ltd.	29th November, 2013	One day
12	Workshop on "Robotics"	10th March, 2014	One day
13	Workshop on "PCB Design"	21st & 22nd August, 2014	Two days

Table: 3.1.6(e) List of research oriented programs held during year 2012-13

Sr. No.	Type of Program Organized	Date	Duration
1	Project Exhibition/Competition on "Engineering in Sports" at Global Conference, Amravati	15th- 17th January, 2013	Two days
2	"Awareness about Green Glory Foundation and Membership Campaign for NGO" By: Mr. Vaishnav Sunil Kadu, President, Green Glory Foundation (NGO), Amravati	18th February, 2013	One day
3	Conducted Research Aptitude Assessment Test for MBA and BE Final Year Students By: Aspiring Minds Assessment Pvt. Ltd.	11th and 12th August, 2012	Two days
4	"AGSTS Contest by Apropos Gumption Level 1 Aptitude & Technical online test"	30th September and 1st October 2012	Two days
5	"Conduction of Work Place Inventory for Professionals and Thinking Skill Test Online" By: Eskillat Academy, Hyderabad.	26th - 10th October 2012	Two weeks
6	Workshop on "Embedded System"	24th September - 6th October, 2012	Two days

3.1.7 Provide details of prioritized research areas and the expertise available with the institution.

Following are the prioritized research areas & available expertise from the Institution.

Table 3.1.7 Details of prioritized research areas & expertise available with Institute

Sr. No.	Prioritized Research Areas	Available Expertise
1	Appropriate & Green Technology	Dr. A. B. Marathe, Mr. S. V. Khond
2	Advanced Computing	
	(i) Mobile Computing	Dr. P. L. Ramteke, Mr. Akhil Jaiswal
	(ii) VLSI	Dr. U. A. Belorkar, Ms. Jinal Tapar
	(iii) Data Mining	Dr. A. B. Raut, Dr. R. R. Keole
	(iv) IOT & Embedded System	Mr. Barun Pandhwal
	(v) Cyber Forensic & Information Security	Mrs. S. P. Gawande, Mr. Amol Jangid
	(vi) Image Processing	Mr. V. L. Agrawal, Mr. Akshay Vartak
	(vii) Artificial Intelligence	Dr. P. L. Ramteke, Mr. Yogesh Rochlani
3	Applied Chemistry	Dr. M. E. Shelke

3.1.8 Enumerate the efforts of the Institution in attracting researchers of eminence to visit the campus and interact with teachers and students?

Table 3.1.8 Details of efforts carried out for attracting eminent researchers to institute

Sr. No.	Efforts of the Institution	Eminent Persons Visited & Interacted with Teachers and Students
1	Organization of International Conference on Sports Engineering, Global Conference and MoU with International Institutions.	Dr. Isamu Koyam(Japan), Prof. Seeram Ramakrishna (Singapore) Mr. Wolfgang B, Mr. Finn Berggren, (President, Gerlev P. E & Sports Academy, Denmark) Mr.Rolf Dungefeld(Germany) Mr.Tajma Toshio (Japan)
2	Organization of ISTE National Convention	Dr. Vijay Bhatkar (Eminent Scientist &Creator of Super Computer- PARAM) Dr. Anil Sahastrabudde (Chairman, AICTE), Dr. S. P. Kane (Vice Chancellor RTM Nagpur university, Nagpur) Dr. Mohan Khedkar, (Vice Chancellor SGB Amravati University, Amravati)
3	Conduction of National Seminar on NBA Accreditation.	Dr. Anil Sahastrabudde (now Chairman, AICTE)
4	Special Expert talk organized on **Mission on Mars (MOM)**	Dr. Nitin Ghatpande (Ex. Bramha Prakash Scientist ISRO, Bangalore), Dr. Jaywant Ingale (Ex. Scientist ISRO, Bangalore)
5	National Conference conducted on Green Technology	Dr. A. M. Vaidya & Dr. Patil (Sr. Scientist, National Environmental Research Institute NEERI) Dr. B.B. Gogte

6	National Seminar organized on Solar Energy	Dr. V. S. Sapkal (Ex. Vice Chancellor RTM Nagpur University, Amravati)
7	FDP and STTP	Dr. M. S. Ali, Dr. Sanjay Dudul, Dr. V. M. Thakare, Dr. Kamal Singh

3.1.9 What percentage of the faculty has utilized Sabbatical Leave for research activities? How has the provision contributed to improve the quality of research and imbibe research culture on the campus?

Sabbatical leave is granted to faculty for research activities. In addition, study leave is granted to many others for completing their Ph.D. work, for doing PG and undergo training outside the institute. Approximately 20 % of faculties have utilized Sabbatical Leave.

Table 3.1.9: List of Faculty Members Availing Sabbatical Leaves

Sr. No.	Name of the Faculty	Department	Period of Sabbatical Leave	Reason for Sabbatical Leave
1	Dr. U. A. Belorkar	Electronics and Telecommunication	30/11/2015 to 05/12/2015 and 24/08/2016 to 26/08/2016	INUP, Research project work at IIT Bombay
2	Ms. Jinal K. Tapar	Electronics and Telecommunication	01/05/2016 to 03/07/2016 and 05/11/2016 to 26/12/2016	INUP, Research project work at IIT Bombay
3	Mr. Barun Pandhwal	Electronics and Telecommunication	27/04/2015 to 29/06/2015	GATE Classes, Hyderabad
4	Mr. P. M. Kakade	Electronics and Telecommunication	1/05/2014 to 30/04/2014	Ph. D. work at Yavatmal
5	Dr. A. B. Raut	Computer Science and Engineering	17/09/2013 to 17/10/2013	Research Work
6	Dr. K. G. Bagde	Computer Science and Engineering	20/05/2015 to 17/07/2015	To attend Faculty research Program
7	Mr. S. V. Khond	First Year Engg.	11/03/2017 to 11/4/2017	Foreign Tour-Sports Management
8	Mr. R. M. Sahu	MBA	14/01/2014 to 24/01/2014 02/05/2014 to 15/05/2014 11/03/2017 to 11/4/2017	Foreign Tour-Sports Management
9	Mr. A. S. Shah	MBA	23/08/ 2016 to 22/08/2017	Ph. D. work

Contribution to Improve quality of Research

1. Patents filed/ Technology transfer- 05

2. International / National level Paper publications- 200

Contribution to imbibe Research culture

1. No. of faculty completed Ph. D: 10

2. No. of faculties registered for Ph.D: 10

3. No. of international /National conferences organized at Institute: 03

4. No. of Faculty Participated in International/National Conferences: 83

5. No. of awards received at research project Competition Avishkar: 15   Color Coat holders

6. No. of Research lab developed: 02

7. No. of FDP/STTP Program conducted: 05

3.1.10 Provide details of the initiatives taken up by the Institution in creating awareness/advocating/transfer of relative findings of research of the institution and elsewhere to students and community (lab to land)

Every year, from our institute, faculties are invited as Resource person for creating awareness about the recent state-of-art technology. Prominently, Dr. A. B. Marathe have been revered as a resource person to plethora of institutions like in UAE, BMC, AMC, NMC, SGBAU; On similar paths, Dr. U. A. Belorkar, Dr. A. B. Raut, Dr. P. L. Ramteke have also made their expertise flourish and available to numerous whereabouts. To keep note of possible vulnerabilities through Cyber-crime in the current scenario of digital world, an awareness program on "Information Security" have been taken for students of other institute. Other initiatives taken were solar rain water Harvesting, Zero discharge projects during NSS Camp at various villages.

3.2 Resource Mobilization for Research

3.2.1 What percentage of the total budget is earmarked for research? Give details of major heads of expenditure, financial allocation and actual utilization.

Every year the Institute allocates a handsome amount of approximately, 4% to 8% of total Institutional budget fund in budget for propelling research activities.

Table: 3.2.1 Details of percentage of total budget earmarked for research

Sr. No.	Acade-mic Year	Total Budget Allocated to Research & Develop-ment (in Lacs)	Total Budget Utilize for Research (in Lacs)	Percentage of Budget Utilize for Research (%)	Total Budget of College (in Lacs)	Percentage of total Budget Utilized for Research (%)
1	2012-2013	24.63	23.72	96.30	679	3.62
2	2013-2014	28.45	6.76	23.79	827	3.4
3	2014-2015	71.6	34.39	48.36	961	7.44
4	2015-2016	48.1	41.62	86.52	833	5.77

3.2.2 **Is there a provision in the institution to provide seed money to the faculty for research? If so, specify the amount disbursed and the percentage of the faculty that has availed the facility in the last four years?**

The Seed Money is provided as per the faculty request and released as per provision in SOP of College.

Table: 3.2.2 Details of amount disbursed to faculty as seed money for research

Sr. No.	Year	No. of faculty	Research head/ purpose	Amount disbursed
1	2016-17	Prof. S. P. Gawande	FDP (IBM)	10225
2		Prof. S. P. Gawande	FDP(Information security MIT,Pune)	11700
3		Dr. A. B. Raut	FTP	8800
4	2015-16	Dr. U. A. Belorkar	Post doctoral interface meeting	15961
5		Prof. Karuna Bagade	Research Program	24975
6		Prof. Pragati Chauhan	FTP	7262
7	2014-15	Prof. A. A. Karmarkar	Conference	
8		Prof. A. B. Raut	STTP	21690
9		Prof. S. V. Khond	Conference	9650
10		Prof. V. M. Umarkar	STTP	2500
11	2012-13	Prof. V. S. Gangwani	STTP	3000
12		Prof. N. M. Sharma	STTP	1750
13		Prof. V. M. Umarkar	STTP	1000
14		Dr.P.K. Sontakke	STTP	1000

3.2.3 **What are the financial provisions made available to support student research projects by students?**

Student research projects are supported on the basis of need. These projects are sponsored in the sense by making available consumables, tools, lab facilities, software, journals, workshop facilities and skilled man power available. The different core technical areas are formed to encourage, train and motivate students for innovative work. Various industrial personnel and experts are invited to train students in their domain. Financial provisions are made by providing recurring expenses to the students. At times, capital/non-recurring expenditure is also made whenever specific requirement is made by students.

Table: 3.2.3 Details of financial provisions made available to students for research projects

Sr No	Academic Year	Dept.	No. of Student	Name of Student	% of Student	Support	Name of Program
1	2016-17	EXTC	All	2nd year students	80	Devices and component	mini project
2	2015-16	EXTC	All	2nd year students	80	Devices and component	mini project
3	2014-15	EXTC	All	2nd year students	80	Devices and component	mini project
4	2013-14	EXTC	All	2nd year students	80	Devices and component	mini project
5	2012-13	EXTC	All	2nd year students	80	Devices and component	mini project

3.2.4 **How does the various departments/units/staff of the institute interact in undertaking inter-disciplinary research? Cite examples of successful endeavors and challenges faced in organizing interdisciplinary research.**

To inculcate the spirit of carrying out collaborative, inter-disciplinary research, joint meetings of Research Review Committee (RRC), HODs and senior faculty are held regularly. Some of the points of concern that were chalked out in the discussion for fruitful implementation of idea are:

- To Interaction with Industry
- To Understand Problem Statements
- To identify thrust research areas
- To identify inter disciplinary projects and subject experts
- To access requirement such as Labs facility & other resources
- To monitor progress of project work

Table: 3.2.4 List of Successful endeavors and Challenges faced

Sr. No.	Name of interdisciplinary project	Department involved	Challenges
1	Waste management system	Mechanical, Workshop and Electrical Lab	• Professional Skills of technical Staff • Analytical facility
2	Battery less Solar Power System	EXTC, Workshop and Physics	• Domain Expertise • Professional Skill of technical Staff • Finance • Location and adequacy of space
3	Bluetooth operated door lock system and appliance control	EXTC and CSE	• Finance • Renovating the existing infrastructure.
4	Precision water saving irrigation automatic control system by plant physiology	EXTC and Chemistry lab	• Confluence of domain knowledge.
5	Wireless soil moisture parameter monitoring & germs development condition	EXTC and Chemistry lab	• Continuous Wi-Fi connection.
6	Third umpire for cricket.	EXTC and DCPE	• Sophisticated module.
7	Player monitoring using cell phone	EXTC and DCPE	• Professional Skills of technical Staff.
8	Microcontroller based project for basic training in Archery	EXTC and DCPE	• Practical Acceptance for technology.
10	Automated system for measuring height and weight	EXTC and DCPE	• Finance • Domain Expertise
11	Handy Instrument to analyze reflexes	EXTC and DCPE	• Confluence of domain knowledge.
12	Automation of induction motor parameters with fault announcement	EXTC and DCPE	• Data base management.
13	Morphological Background Detection and Enhancement of Images with Poor Lighting	EXTC and DCPE	• Finance.

14	Fingerprint based registration system for Athletes	EXTC , DCPE and CSE	• Optimal implementation.
15	Optical response sheet analysis for competitive examination	EXTC and CSE	• Domain Expertise
16	M- Kisan Application	CSE + Agriculture	• Data base collection. • Knowledge transfer.

3.2.5 How does the institution ensure optimal use of various equipment and research facilities of the institution by its staff and students?

Following measures are taken by the institutions to ensure optimal use of various equipment and research facilities

- Time table scheduling & Management
- Utilization of spare time& spare capacity during holidays, vacation and beyond working hours
- Use of ICT and e-resources

Table: 3.2.5 Various facilities availed by the institution for research

Sr. No.	Department	Name of Lab.	Utilized by
1	Common Facilities	Computer Center	All
		Workshop	
2	EXTC	Research lab	All
		EDC Lab	IT & CSE
		Instrumentation lab	Mechanical
3	CSE	Research lab	All
		Open source lab	All
		PM lab	IT
4	IT	DBMS lab	All
5	First year	Electrical lab	EXTC

3.2.6 Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facility? If 'yes' give details.

"Yes", Institution has received special grants from industry, AICTE, DSIR as well as under CSR from corporate. Details are given below.

Table: 3.2.6 Details of special grants availed to institute for research development

Sr. No.	Grant Sanctioned/Received (In Lakh)	Name of Funding Agency	Development of Research facility
1	23.00	CCIL, Mumbai	Research Lab Development under CSR
2	11.80	DSIR	Promoting Innovations in Individuals, Start-ups and MSMEs (PRISM)
3	5.00	Ministry of New and renewable energy, new Delhi	Detail Project Report on Green campus development
4	3.44	AICTE	MODROB Lab. Development
5	2.50	Waste bin Solution, Nagpur	Waste Management
6	1.50	Mahesh Saraswat, Sangar (Himachal Pradesh)	Pyrolysis Set up Research
7	1.50	Alchemi Industry Amravati	S.S.316 Distillation Setup Research

3.2.7 Enumerate the support provided to the faculty in securing research funds from various funding agencies, industry and other organizations. Provide details of ongoing and completed projects and grants received during the last four years.

The faculty and students are doing their research projects with support from the external funding agencies. Four major research projects are in progress under surveillance of Indian Nano electronics User Program (INUP). INUP does not provide any grant in terms of money but it take all responsibility of providing the crucial facilities like materials, equipments, machineries, travelling allowances and accommodation. The funding agency Texas instrument and DST, collaboratively held a competition on novel project development; for this they sponsor their instrument to the innovators for bringing the venture to fruition.

Table: 3.2.7(a) Details of incentives in terms of amount available to faculty from various agencies to carry out research

Nature of the Project	Duration Year From-To	Title of the project	Name of The Funding Agency	Total Grant		Total grant received till date
				Sanctioned	Received	
1	2014-17	Conversion of vegetable/fruit market/kitchen/ eating house waste into organic manual and biogas	DSIR	11.80 (Lacs)	11.80 (Lacs)	2.70 (Lacs)

Table: 3.2.7(b) Details of incentives in terms of resources available to faculty from various agencies to carry out research

Sr. No.	Academic Year	Department	Name of Faculty	Name of student	Special Grant Received (Amount)	Name of Funding Agency	Purpose (Project STTP/ Lab. Development
1	2012-2013		Dr. A. B. Marathe	-	11.80 Lacs	DSIR PRISM	PROJECT
2	2013-2014	EXTC	Dr. U. A. Belorkar	--	Infrastructure ,Lab facility& TA/DA facilities for development of projects are provided	Govt. of India & MCIT at IIT Bombay	Project development
3	2014-2015		Dr. U. A. Belorkar & Prof. J. K.Tapar	--		Govt. of India & MCIT at IIT Bombay	Project development
4	2015-2016		Dr. U. A. Belorkar	Shrushti K. Tapar		Govt. of India & MCIT at IIT Bombay	Project development
5			Prof. J. K. Tapar	Mr. Akshay Lakade	consumables are given for project development	Govt. of India, department of science and technology and Texas instruments Inc, India Innovation challenge.	Project development
6				Mr. Swapnil Mushrif			
7				Ms. Kasturi Auranga badkar			

3.3 Research Facilities

3.3.1 What are the research facilities available to the students and research scholars within the campus?

Following are the research facility available to the students, faculty and research Scholars within the campus:

- IOT Trainer lab
- Availability of Wi-Fi network throughout the campus.
- 24*7 Internet connection facilities.
- Computing facilities are made available beyond working hours in Computer center.
- Laboratories with equipments needed for research.
- Central library and digital library facility.
- Subscription of National and International journals along with E-journals
- Facilities like Testing labs, CAD Lab, tools, equipment, software and Hardware

3.3.2 What are the Institutional strategies for planning, upgrading and creating infrastructural facilities to meet the needs of researchers especially in the new and emerging areas of research?

Following are the strategies and policies adopted by the Institute to create and upgrade infrastructural facilities for research as:

1. To appoint eminent personalities from various Institution and corporate as members of governing body and as adjunct faculty.
2. To invite eminent persons and experts to the Institution to seek advice and guidance for development.
3. To interact with leading eminent scientist from research Institutes, experts from Industry & Corporate, eminent faculty and senior teachers from Institutes of highest reputation like IITs to understand the new development in the field.
4. To motivate faculty to undergo doctoral programme
5. To make budgetary provision for R & D infrastructure
6. To seek assistance for funding of research infrastructure under various schemes

7. To grant special leave to faculty for all above.

8. To organize National/ International Conferences, training programmes, workshops on emerging technological trends.

9. To encourage faculty of the college to attend and participate in National/ international conferences.

10. Up gradation of Computers and software with latest versions.

11. To promote and motivate faculties for Industrial visit and training.

3.3.3 Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facilities??If 'yes', what are the instruments/facilities created during the last four years.

- AICTE MODROB grants were received for development of research lab.
- Institute has purchased "SPARTAN 6" and "VIRTEX 5" FPGA kits.

3.3.4 What are the research facilities made available to the students and research scholars outside the campus/other research laboratories?

Yes, facilities are made available for research scholars outside the campus.

Table 3.3.4 Details of facility available to faculty outside the campus for research

Sr No	Name of Faculty/ Research Scholar/ Students	Facility Outside Campus	Research Areas
1	Dr. A. B. Marathe	Amravati Municipal Corporation, Amravati	Waste Management
2	Dr. U. A. Belorkar	Applied Electronics Department, SGBAU, Amravati	VLSI Backend Designing (Analysis and design of low power phase locked loop with multiple output using VLSI technology.)
3	Dr. U. A. Belorkar	CEN(Centre of Excellence for Nano-electronics) at IIT Bombay under INUP	Nano Memory Fabrication (Fabrication and characterization of Silicon based memristor using TiO_2)
4	Dr. U. A. Belorkar and Prof. Jinal Tapar	CEN(Centre of Excellence for Nano-electronics) at IIT Bombay under INUP	Nano-electronics (Characterization and fabrication of vertical 1T1R ReRAM cell)

5	Dr. U. A. Belorkar and Prof. Jinal Tapar	CEN(Centre of Excellence for Nano-electronics) at IIT Bombay under INUP	Nano-devices(Characterization and fabrication of vertical nanopillar GAA p-TFET transistor)
6	Dr. U. A. Belorkar and Miss. Shrushti Tapar	CEN(Centre of Excellence for Nano-electronics) at IIT Bombay under INUP	Neuromorphic Computing with Micro-electronics device (Fabrication and characterization of HfOx based RRAM synaptic cell)
7	Prof. P. M. Kakde	JDIET, Yavatmal	Image Processing (Development Of An Efficient Handwritten Devnagri Character Recognition System.)
8	Prof. V. L. Agrawal	Applied Electronics Department, SGBAU, Amravati	Artificial Intelligence and Image processing (Study of optimal classifier based on computational intelligence techniques for diagnosis of lung cancer)
9	Prof. A. P. Vartak	PRMITR, Badnera	Image Processing(Improved Morphological Image segmentation techniques for identifying edge and background detection)
10	Mr.Sayed Z Abbas	Shree Trinity Infotech	Automation (Automation testing using selenium tool)
11	Mr.Amol Agarkar	Prolofic system & Technology	Process Control (PLC SCADA)
12	Dr. A. B. Raut	PRMIT, Badnera Amravati	Data mining
13	Dr.P.L.Ramteke	PG Dept, CSE, SGBAU	Mobile Computing
14	Dr. M.E.Shelke	JijamataMahavidyalaya Buldana (SGBAU)	Chemistry (Synthesis of 1,3Diformamidinothiocarbamide hydrochloride derivatives and their cyclization to 1,3,5 thiadiazines and triazines.)
15	Dr.P.K.Sontakke	G.V.I.S.H. Amravati	Mathematics (Study of distributional generalized fractional Hartley transform)
16	Dr.V.M.Umarkar	R.D.I.K. & K.D.I. College Badnera	(Study of two fluid cosmological model in higher dimension)
17	Dr.V.P.Chaudhary	Deptt. Of Physics, SGBAU Amravati	Industrial noise control
18	Dr.A.S.Shrirao	Govt. Engg. College Amravati (Chemistry Deptt.)	(Physio-chemical study of some thiopyrimidines derivatives by analytical technique.)

19	R.R. Keole	P.G. Deptt. Of computer science SGBAU, Amravati	(Design of an efficient approach to improve the performance of information retrieval in web search engine results.)

3.3.5 Provide details on the library/information resource centre or any other facilities available specifically for the researchers?

- Subscription of National Digital library
- Availability of NPTEL Resources and E-books
- Reference books on various research topics and project
- High speed digital Library section in central library
- Repository of digital records and conference proceedings
- Subscription of IEEE, CSI, J-GATE plus, Proquest, global E-journal
- Subscription of Journals and Magazines

3.3.6 What are the collaborative researches facilities developed/created by the research institutes in the college? For ex. Laboratories, library, instruments, computers, new technology etc. : NIL

3.4 Research Publications and Awards

3.4.1 Highlight the major research achievements of the staff and students in terms of

1. **Patents obtained and filed (process and product)**
2. **Original research contributing to product improvement**
3. **Research studies or surveys benefiting the community or improving the services**
4. **Research inputs contributing to new initiatives and social development**
1. **Patent Obtained and filed (process and product)**

Table: 3.4.1(a) List of Patents filed/obtained

Name of Faculty	Patent Number	Name of Field	Year	Patent Journal Name & Number
Dr. A. B. Marathe	204095	A Method Of Manufacturing Lubricating Gels From Polyoleffinic Waste	2006	Intellectual property India 022/001256
Dr. A. B. Marathe	PCT/IN2016 /000032	Process for Rapid disposal and conversion of vegetable-fruit market waste into manure	2016	Application under Patent cooperation treaty

Dr. A. B. Marathe	2641/MUM/ 2012	An automated integrated domestic waste treatment and disposer [EKO BIN]	2012	Intellectual property India UNDER EXAMINATION
Dr. U.A. Belorkar	313/MUM/2 011	Power efficient phase locked lop with four multiple output using 45nm CMOS technology	Applie d year 2011	Intellectual property India Patents/ design/trademarks/ geographical indications C.B.R.No.:1293
Dr. U.A. Belorkar	TEMP/E-1/44983 /2016-MUM	Fabrication and Characterization of memory using 6x6 array of memristors	02-01-2017	Intellectual property India Patents/ design/trademarks/ geographical indications C.B.R.No.:5

2. Original research contributing to product improvement

- Alternative route for Hydrogen Chloride gas generation- Generation of waste sulfuric Acid eliminated.

- Down jet combustion technique for efficient & smokeless energy recovery from Nilgiri wood.

3. Research studies or surveys benefiting the community or improving theservices
   Research studies benefiting the Community

1. Municipal solid waste management system
2. Plastic waste management system
3. Organic waste from vegetable/ fruit market and eating houses management system
4. Wireless LCD Display board system

   Surveys benefiting the community

1. Survey of effect of Green initiatives on Environment
2. Survey of status of children homes (orphanages) in Amravati city
3. Survey of status of Aadhar Card Linked, Bank Accounts in the adopted village through NSS

4. Research Inputs contributing to new initiatives and social development

Table: 3.4.1(b) Details of research inputs contributing to new initiatives and social development

Title of research topic	Status
Waste Management System	Completed
Plastic compaction System	Completed
Analysis and design of low power phase locked loop with multiple output using VLSI technology.	Completed
Fabrication and characterization of HfOx based RRAM synaptic cell.	In-process
Characterization and fabrication of vertical 1T1R ReRAM cell.	In-process
Characterization and fabrication of vertical nanopillar MOS transistor And oxide based ReRAM synaptic cell for neuromorphic computing	In-process
Fabrication and characterization of Silicon based memristor using TiO2.	Completed
Study of optimal classifier based on computational intelligence techniques for diagnosis of lung cancer	In process
Improved Morphological Image segmentation techniques for identifying edge and background detection	In process
Development Of An Efficient Handwritten Devnagri Character Recognition System	In process

3.4.2 Does the Institute publish or partner in publication of research journal(s)? If 'yes', indicate the composition of the editorial board, publication policies and whether such publication is listed in any international database?

Our revered faculty members are on editorial board of various reputed journals, for which compiled data is presented below:

1. **International Journal of Research in Computer & Information Technology (IJRCIT)**

Dr. Anjali B. Dahake

Professor and Head,

Department of Computer Science and Engineering,

H.V.P.M College of Engineering & Technology, Amravati,

Maharashtra, India

Dr.Prof. P. L. Ramteke

Professor and Head,

Department of Information Technology,

H.V.P.M College of Engineering & Technology,

Amravati, Maharashtra, India

2. **International Journal of Advanced Innovative Technology in Engineering (IJRCIT)**

   Dr. Ujwala A. Belorkar

   Professor and Head,

   Department of Electronics & Telecommunication,

   H.V.P.M College of Engineering & Technology, Amravati,

   Maharashtra, India

3. **International journal of VLSI & communication system (VLSICS)**

   Dr. Ujwala A. Belorkar

   Professor and Head,

   Department of Electronics & Telecommunication,

   H.V.P.M College of Engineering & Technology, Amravati,

   Maharashtra, India

4. **International Journal of Advanced Electrical & Electronics Technology (IJAEET).**

   Prof. P. M. Kakade,

   Department of Electronics & Telecommunication,

   H.V.P.M College of Engineering & Technology, Amravati,

   Maharashtra, India

5. **Eranioun fuzzy neural network Journal**

   Prof. P. M. Kakade,

   Department of Electronics & Telecommunication,

   H.V.P.M College of Engineering & Technology, Amravati,

   Maharashtra, India

6. **International Journal of Chemical & Physical Sciences**

   Editor-in-chief: **Dr. M. E. Shelke,**

   Department of Chemistry,

   HVPM College of Engineering& Technology, Amravati,

   Maharashtra, India

3.4.3 Give details of publications by the faculty and students:

- Publication per faculty

- Number of papers published by faculty and students in peer reviewed journals

(national/international)

- Number of publications listed in International Database (for Eg: Web of Science, Scopus, Humanities International Complete, Dare Database- International Social Sciences Directory, EBSCO host, etc.)
- Monographs
- Chapter in Books
- Books Edited
- Books with ISBN/ISSN numbers with details of publishers
- Citation Index
- SNIP
- SJR
- Impact factor
- h-index

Table: 3.4.3(a) Details of publications in National/ International journals by the faculty

Sr. No.	Name	No. of Publication in International Journal				No. of Publication in National Journal			
		AY-12-13	AY-13-14	AY-14-15	AY-15-16	AY-12-13	AY-13-14	AY-14-15	AY-15-16
1	Dr. Anjali B. Raut (Dahake)	8	13	19	20	-	-	1	1
2	Ms. Karuna G. Bagde	1	7	8	5	-	-	-	-
3	Mr. Abhijeet B. Potey	2	3	-	-	-	-	-	-
4	Mrs. Rajeshri R. Shelke	1	7	2	5	-	1	-	-
5	Ms. Rashmi P. Bijwe	-	3	2	5	-	-	-	-
6	Mr. Pravin D. Kaware	-	2	1	1	-	-	-	-
7	Mr. Nachiket A. Rathod	2	1	-	-	-	-	1	1
8	Ms. Prajakta P. Chapke	3	3	10	1	-	-	-	-
9	Ms. Rupali R. Deshmukh	2	2	1	5	-	-	-	-
10	Ms. Sneha R. Kaware	-	1	2	2	-	-	-	-
11	Ms. Poonam A. Manjare	-	1	1	-	-	-	-	-
12	Mr. Akhil Jaiswal	1	-	1	1	1	-	1	-
13	Mr. Yogesh R. Rochlani	2	1	2	1	-	-	-	-
14	Mr. Ritesh G. Anantwar	1	1	1	1	1	-	-	-
15	Ms. Javeriya Naaz	-	1	2	3	-	1	1	-
16	Ms. Trupti Ghongade	-	2	2	-	-	-	-	-
17	Ms. Apurva Tayade	1	2	-	3	-	-	-	1
18	Mr. Prathamesh Phadke	-	-	-	2	-	-	-	-
19	Dr. Ujwala A. Kshirsagar (Belorkar)	6	1	9	9	-	-	1	-

20	Mr. Vijay L. Agrawal	2	1	1	2	-	-	-	-
21	Mr. Ajay J. Khambre	1	1	1	-	-	-	-	-
22	Mr. Prashant M. Kakde	1	-	3	-	-	-	-	-
23	Mr. Ashish B. Kharate	2	4	4	4	-	-	-	-
24	Mr. Ashish E. Bhande	2	4	4	-	-	-	-	-
25	Mr. Anup Madghe	-	2	-	-	-	-	-	-
26	Mr. Akshay P. Vartak	-	-	3	-	-	-	-	-
27	Mr. Nahed N. Mulla	-	1	1	-	-	-	-	-
28	Mr. Pankaj Sanghavi	-	1	-	-	-	1	-	-
29	Mr. Harshad Oak	-	-	2	-	-	-	-	-
30	Mr. Sagar Bakale	-	1	-	-	-	-	-	-
31	Ms. Chetana Rathi	2	2	-	-	-	-	-	-
32	Mr. Pranav Pattewar	-	1	-	-	-	-	-	-
33	Mr. Chaitanya Koleshwar	-	2	-	-	-	-	-	-
34	Ms. Ashwini Tonde	-	2	-	-	-	-	-	-
35	Ms. Jinal Tapar	-	3	2	-	-	-	-	-
36	Mr. Prabhakar L. Ramteke	1	5	4	-	-	-	-	-
37	Mr. Mukund R. Joshi	-	4	4	-	-	-	-	-
38	Mr. Vinod S. Gangwani	2	1	1	-	-	-	-	-
39	Mr. Ranjeet R. Keole	-	7	8	-	-	-	-	-
40	Mr. Ashivin W. Hote	-	1	1	-	-	-	-	-
41	Ms. Nazneen Tarannum	-	1	3	-	-	-	-	-
42	Mr. Sarang V. Khond	1	-	1	1	-	-	-	-
43	Dr. Mangesh E. Shelke	5	3	2	1	3	4	3	-
44	Mr. Santosh U. Bande	-	2	-	-	-	2	-	-
45	Mr. Milind B. Anasane	2	-	-	-	-	2	6	-
46	Dr. Pritibala K. Sontakke	1	2	-	-	3	4	-	-
47	Mr. Amol S. Shrirao	-	-	7	-	-	-	-	4
48	Ms. Vandana M. Umarkar	2	4	2	1	-	4	5	-
49	Ms. Vaishali P. Choudhary	2	2	3	-	1	5	-	-
50	Mrs. M V. Mantri (Rajopadhye)	-	-	-	-	1	2	1	-

Table: 3.4.3(b) Details of publications in National/ International journals by the students

Sr. No.	Name of Student	Paper Title	Journal name, Volume, Issue, Pages	Month	Total
Academic Year: 2015-16				
1	Ku.Ankita Agham	Smart Phone Application for Menu Card in Restaurant	IJIR	April'16	01

2	Ku.Shweta Lande	Smart Phone Application for Menu Card in Restaurant	IJIR	April'16	
3	Ku.Sneha Matte	Android Application for Menu Recommendation System	IJESC	April'16	01
4	Ku.Sapna Ramtke	Android Application for Menu Recommendation System	IJESC	April'16	
5	Ku.Tejaswini Marodkar	Training and Placement office automation system	IJIR ,Vol2, Issue 6	2016	01
6	Ms. Diksha Kuthe	Cloud Database- As a Service	IJIR	April-2016	01
7	Ms. Apurva Bhutad	A Study of Various Haze Removal Techniques for Image Processing	IJIR	April-2016	01
8	Ms. Mayuri Nehar	Discovery of Ranking Fraud for Mobile Apps	IJIR	April-2016	01
9	Ms. Bharati Chaudhari	Facial Expression Recognition and Analysis	IJIR	March 2016	01
10	Ms. Deepa Deulkar	Data Mining Classification	IJIR	April-2016	01
11	Ms. Bhavana Borkar	4D Password Mechanism	(IJIR) Vol-2, Issue-5, 2016 ISSN: 2454-1362	MAY 2016	01
12	Ms. Shiba Sheikh	4D Password Mechanism	IJIR, Vol-2, Issue-5, 2016 ISSN: 2454-1362	MAY 2016	
13	Ms. P.V. Ninawe	Recommendation system based on Tourist Attraction	IJIR, Vol-2,ISSN2454-1362	2016	01
14	Ms. M.L. Dabhire	Recommendation system based on Tourist Attraction	IJIR, ISSN2454-1362ISSN 2454-1362	2016	
15	Ms. Rutuja Bonde	Recommendation system based on Tourist Attraction	IJIR, ISSN2454-1362ISSN 2454-1362	2016	

16	Ms. Mayuri Gawande	Recommendation system based on Tourist Attraction	IJIR, ISSN2454-1362ISSN 2454-1362	2016	
17	Ms. Damini Jayale	A Context Aware COI Model	Imperial Journal of Indiscipli nary Research ISSN2454-1362	2016	01
18	Ms. Maithili Kale	A Context Aware COI Model	IJIR, ISSN2454-1362	2016	
19	Ms. Schita Jadhav	A Context Aware COI Model	IJIR, ISSN2454-1362	2016	
20	Ms. Nutan Girhe	Delay Tolerant Network with the content sharing scheme	IJESC, ISSN 2250-1371	March 2016	01
21	Ms. Radhika Kale	Delay Tolerant Network with the content sharing scheme	IJESC, ISSN 2250-1371	March 2016	
22	Ms. Pooja Pokale	Global Wireless E-Voting System	IJAITE	2 March 2016	01
23	Ms. Pooja Shelke	Global Wireless E-Voting System	IJAITE	2 March 2016	
24	Ms. Priyanka Bansod	To study of Brain Fingerprinting Technology and its Application	IJAITE	2 March 2016	01
25	Ms. Shital Burghate	To study of Brain Fingerprinting Technology and its Application	IJAITE	2 March 2016	
26	Ms. Ravina.H. Popli	Research and Development of College Department System in Android	IJARCSSE, Volume 6, Issue 2, ISSN: 2277 128X, pp 448-451	February 2016	01
27	Ms. Rani Ingle				
28	Ms. Sonali Sable				
29	Ms. Samiksha Kakde				
30	Ms. Mohini H. Chandwani	VANET & It's Security Issues	IJRCIT	Vol 1, 2015	01

	Total Student participants	**30**	Total publication by students		**16**
			Academic Year: 2014-15		
1	Ms. Uroojussama	Game Based Intelligent Tutoring System	IJERGS Vol. 3, Issue 2	April 2015	01
2	Ms. Uzma Farheen				
3	Ms. Aaliya Anwari				
4	Ms. Sonal Agashe				
5	Ms. Rucha Pujari	Integration of Heterogeneous Data Sources	IJRASET Vol. 3,Issue 4	April 2015	01
6	Ms. Neha Solio	Heterogeneous Database Integration using XML	IJRASET Volume 3,Issue IV	April 2015	01
7	Ms. Sapana Churare	Filtering Unwanted Messages from Android Messaging Application	(IJIR) Vol-2, Issue-5, 2016 ISSN: 2454-1362	MAY 2015	01
8	Ms. Gauri Banore	Filtering Unwanted Messages from Android Messaging Application	(IJIR) Vol-2, Issue-5, 2016 ISSN: 2454-1362	MAY 2015	
9	Ms. Noaman Khan	Use Of ICT in Education Online Computer Based Test	IJMTER Volume 02, Issue 01,	January - 2015	01
10	Mr. Dheeraj V. Purohit	Introduction to .NET	IJIRME	Feb-2015	01
11	Mr. Sachin R Rokade	Introduction To .NET	IJIRME	Feb-2015	
12	Mr. Gajanan D. Gawande	Session Management And Data Security	IJIRME	Feb-2015	01
13	Mr. Sagar L. Dongre	Session Management And Data Security	IJIRME	Feb-2015	
14	Mr. Anam Sultana	CLOUD COMPUTING: Comparison with grid computing, cloud service models, architecture components and virtualization	IJARCSSE 2277 128X	DEC-2014	01
15	Ms. Neha Pramod Patil,	Performance Enhancement of Cloud Computing using Clustering	IJMTER 2393-8161	JAN-2015	01

16	Ms. Aashna Rukhsaar M. Ashfaque	Exploring Cloud Computing Services and Applications	IJERGS 2091-2730	JAN-2015	01
17	Ms. Arwaainewala	Security issues in cloud computing and their countermeasures	IJESRT 2277-9655	JAN-2015	01
18	Ms. Snehal Taglpallewar	Data mining in cloud computing	IJRASET 2321-9653	MAR-2015	01
Total Student participants		**18**	**Total publication by students**		**12**

Book Published:

Table: 3.4.3List of books published by the faculty

Sr. No	Name of faculty	Name of book	Name of publisher	ISSN/ISBN No.	Year of Publica tion
1	Dr. U. A. Kshirsagar	Phase Locked Loop with multiple output using VLSI Technology	Lambert Publishing House, Germany.	ISBN No.978-659-32925-8	2013
2	Prof. P. M. Kakde	Character recognition: a machine intelligence approach	Lambert Publishing House, Germany.	ISBN:978-365-9358104	2013
4	Dr.M.E.Shelke	Engineering Chemistry	Dasganu Prakashan, Nagpur	ISBN No. 978-93-81660-54-6	2013
5	Dr.M.E.Shelke	Text book of Chemistry, B.Sc. II Year Sem. III,	Nabha Prakashan Amravati	ISBN No 978-81-905776-101-6	2015

3.4.4 Provide details (if any) of

- **Research awards received by the faculty**

- **Recognition received by the faculty from reputed professional bodies and agencies, nationally and internationally**

- **Incentives given to faculty for receiving state, national and international recognitions for research contributions.**

Details of Research awards received by the faculty:

Table: 3.4.4(a) Details of Research awards received by the faculty

Academic Year 2016-17		
Sr. No.	**Name of faculty**	**Name of research for which award is received**
1	Dr. U.A. Kshirsagar	46th ISTE National Annual convention, Calcutta for best paper Award
2	Prof. A. M. Jaiswal	Avishkar SGB Amravati University
3	Prof. V. L. Agrawal	Avishkar SGB Amravati University
4	Prof. A. E. Bhande	46th ISTE National Annual convention, Calcutta for best paper Award
Academic Year 2015-16		
1	Prof. J. I. Syed	Avishkar SGB Amravati University
2	Prof. H.P. Oak	Avishkar SGB Amravati University
Academic Year 2014-15		
1	Dr. U.A. Kshirsagar	46 IETE MID-TERM SYMPOSIUM, ITSD - 2015, on impact of technology on skill development
2	Prof. Y. R. Rochlani	Avishkar SGB Amravati University
3	Prof. P. D. Chowhan	Avishkar SGB Amravati University
Academic Year 2013-14		
1	Prof. P. L. Ramteke	Avishkar SGB Amravati University
2	Prof. A.M. Madghe	Avishkar SGB Amravati University
Academic Year 2012-13		
1	Dr. U.A. Kshirsagar	Best Paper Award S B Jain COET, Nagpur
2	Prof. N. A. Rathod	Avishkar SGB Amravati University

Recognition received by faculty from reputed professional bodies and agencies, nationally and internationally.

Table: 3.4.4(b) Details of honor conferred upon faculty by reputed institution

Sr. No.	Name of faculty	Details of faculty achievement	National/ international	Year
1	Dr. A. B. Marathe	Distinguished Principal Award by CSI MUMBAI	National	2016-17
2		Vasundhara award	National	2012-13
3		Fellow of IEI	National	2013-14

4		Nominated for national award for innovation organized by CII & AICTE	National	2015
5	Dr. U.A. Kshirsagar	Best woman award 2012	National	2011-12
6	Prof.S. V.Khond	IEI Best Engineers Award	National	2014-15
7	Prof. A. B. Kharate	Best NSS Coordinator	State & SGB AU	2015-16
8	Dr. M.E.Shelke	ISTE Best Engineering College Teacher Award for Maharashtra & Goa State	National	2016-17

*Incentives were given to faculty from college for receiving state, national, international recognitions for research contributions:

Additional Increments/ Incentive DA is given

Table 3.4.4(c) Details of incentives given to faculty for remarkable contribution

Sr.No.	Name of Faculty/Staff	Designation	Purpose	Incentive amount	w.e.f
1	Prof. Ashish B. Kharate	Asst. Professor	Received State Level Award by Govt. of Maharashtra for Outstanding Contribution towards NSS Programmes for year 2013-14	Additional One increment i.e. 3% of Basic pay	January-2016

3.5   Consultancy

3.5.1   Give details of the systems and strategies for establishing institute-industry interface?

Following are the systems and strategies of establishing relation with industry:

- Industrial visits for students and faculty are arranged by the institute

- Internship program to students and faculty during vacation period

- Deputing students and faculty for exhibitions/Conference/Seminar organized by associations of Industries.

- Training and placement activities
- Inviting industry experts for Guest lectures, projects and evaluation.[Refer table 3.7.2(a)]
- Inviting participations for technical festivals [Refer *table 3.7.4(a)]*
- MoU's are signed for workshop and FDP's to be conducted for students and faculty, to make them technically competent of new technology.
- Core Technical Area (CTA) modules are conducted for students and faculty, under the guidance of industrial experts

3.5.2   What is the stated policy of the institution to promote consultancy? How is the available expertise advocated and publicized?

Stated Policy:

Consultancy earning will be shared between faculty and the Institution in the ratio of 60:40

Ad vocation and publication of available expertise by:

- Information brochure of College
- College website
- News papers

3.5.3   How does the institution encourage the staff to utilize their expertise and available facilities for consultancy services?

- Special Leave granted
- Flexibility in working hours
- Use of infrastructure & other resources
- Sharing of Consultancy earning
- Facilitation to faculty to visit throughout India for interaction

3.5.4   List the broad areas and major consultancy services provided by the Institution and the revenue generated during the last four years

Table: 3.5.3(a) Collaboration of Faculties with Consultancy Services

Area of Advisory/Consultancy Services	Faculty/ Faculties Involved	Company/Industry/Institute
Preparation for Accreditation	Dr. A. B. Marathe	Gharda Institute of Technology, Lavel Dist. Ratnagari
		Dr. Kamaltai Gawai Institute of Engineering & Technology, Darapur
		P.R.Pote College of Engineering & Technology, Amravati.
Process Development	Dr. A. B. Marathe	Maharashtra State Seeds Corporation Ltd., (MAHABEEJ) Govt. of Maharashtra Enterprise.
		M/s Akshay Chemicals, MIDC, Akola
		Mahesh Singhal, Himachal Pradesh
Lab development	Dr. U. A. Belorkar	DCPE, HVPM, Amt
Technical consultant	Prof. A. P. Vartak	DOTCOM Pvt. Ltd
		Trupti Software solution
		PC Care
Lab development		Bhartiya Mahavidhyalaya Amravati
Lab development		Jijau D. Ed. College
Technical consultant	Prof. R. J. Jillawar	Sthapatya consultant Pvt. Ltd
Technical advisor	Prof. P. U. Ishwarkar	Sthapatya consultant Pvt. Ltd
Technical Developer	Mr. Anirudhadh Pande	Oryix Solar energy Pvt. Ltd
Technical Trainer	Mr. Anirudhadh Pande	Oryix Solar energy Pvt. Ltd
Technical advisor	Prof. Anup Madghe	Infobench, Pune
Technical Assistance	Mr.Vijay L. Agrawal	Assistance in installation of Linear Accelrator Machine(Radiation Unit) at Amravati Cancer Foundation, Amravati
Coordinator and consultant	Prof. P. M. Kakade	Science Olympiads foundation and MPG learning area PVT. LTD. New Delhi
Consultant		National book trust of india

3.5.5 What is the policy of the institution in sharing the income generated through consultancy (staff involved: Institution) and its use for institutional development?

Consultancy earning will be shared between faculty and the Institution in the ratio of 60:40

3.6 Extension Activities and Institutional Social Responsibility (ISR)

3.6.1 How does the institution promote institution-neighborhood community network and student engagement, contributing to good citizenship, service orientation and holistic development of students?

Our Institute always tried for the holistic development of the students and encourages them for participation in the various social activities. Institute perform the following social activities

- Student sensitization program toward various facts of societies :
  - Orphanage, Old-age home, Child helpline, Women helpline, HIV awareness among truck drivers and other vulnerable society through Red Ribbon Club of the college. Joint cultural program with the involvement of students from North-East states of neighboring college and students of our college viz. Music and Dance program

- Cyber security awareness programs.

- NSS (National Services Scheme) : Adoption of village and activities Rain harvesting , Water Conservation , Cleanliness drive , Tree plantation , Computer Literacy , Health check-up , Blood donation camps, help in the movement of digital India , eradication of blind faith and creation of scientific temper. Yoga, meditation practices among people. Technical awareness program in Ashram shalas. Contribution to confidence building in farmers (Farmers awareness program)Adoption of neighboring villages and activities such as tree

- Social Gathering (Tarang) and Inter-collegiate tournaments by organizing sport festivals.

- Making the college playground available to neighboring industries and communities on weekends.

- Sharing computer Lab for the 11th and 12th students from neighboring college.

3.6.2 What is the Institutional mechanism to track student's involvement in various social movements/activities which promote citizenship roles?

Institutional mechanism to track student involvement in various social activities which promote citizenship role as follows:

1. To monitor and promote students activities with respect to social concerns.

2. Well-developed organizational structure such as formation of groups, group leader, teacher in-charge/mentor, planning of activates, activity calendar, documentation of events, appreciation, rewards, publication in college magazine.

3. Students' achievement section is at Departmental level. Students have to submit their achievement certificates to this section.

3.6.3 How does the Institution solicits take holder perception on the overall performance and quality of the Institution?

1. Institute conduct the alumni meet every year and take feedback from them, share their views about the institute. Institutes take care of their views and try to improve every time.

2. Feedback from employer where ever possible

3. Institute conduct the parent meets on regular basis.

4. Governing body meet

5. Institute organizes half yearly College council meet, where feedbacks of various activities are taken to improve overall performance and quality of the institution.

6. Regular feedback from students representative committee (SRC)

7. Recognition by affiliating University in the form of declaration of college students name in merit list, giving awards to faculty of the college, declaration of winners in University level competition, college magazine, environmental award, selection of college students for Inter University sports tournament.

8. Selection of students for international Internship, internship and placement by Industry.

9. Appreciation by Industry for beyond syllabus technical skill empowerment program

10. Feedback boxes are installed at prominent places in the college.

3.6.4 How does the institution plan and organize its extension and outreach programs? Providing the budgetary details for last four years, list the major extension and outreach programs and their impact on the overall development of students.

The institution plan and organize its extension and outreach programs
1. The extension and outreach programs are done through NSS.
2. Tree plantation

3. Industrial visit

4. Rain water harvesting project during NSS camp

5. Dam creation

6. Personality Development (SSS)

7. Technical skill Empowerment (CTA)

8. Value Education Programme and Social Commitment

9. Swachha Bharat Abhiyaan

10. Celebration of Digital India Week

11. Constitution Day

12. Independence and Republic Day

13. Youth Festival

14. Woman Empowerment Program

15. Cyber Security Awareness

Table: 3.6.4(a) Details of various Institutional plan and outreach programs undertaken

Sr. No.	Academic Year	Activity	Allocation of budget (In Lac)	Expenditure
1	2012-13	NSS	0.9	0.9
		ECT		
		SSS	15.00	10.00
		Tree Plantation	1.00	0.30
		Earn and Learn	0.30	0.12
		Sports	1.10	0.93
		Technical Event		
		College Magazine	0.75	0.7
		College annual Function (Tarang)	1.70	2.7
		Industrial Visit	1.5	0.6
		Medical Checkup		
		Blood donation Camp		
		Youth Festival	0.50	0.50
2	2013-14	NSS	0.20	0.4
		ECT		
		SSS	22.00	1.95
		Tree Plantation	1.0	.24
		Earn and Learn	0.20	0.18
		Sports	1.20	.27
		Technical Event		
		College Magazine	1.0	1.0
		College annual Function(Tarang)	1.5	4.1

		Industrial Visit	0.9	0.94
		Medical Checkup	0.01	0.01
		Blood donation Camp		
		Dubai Tour		21.116
3	2014-15	NSS	0.30	1.04
		ECT		
		SSS	20.00	1.65
		Tree Plantation	1.5	0.83
		Earn and Learn	0.40	0.2
		Sports	0.50	0.34
		Technical Event		
		College Magazine	1.0	1.0
		College annual Function (Tarang)	1.70	7.46
		Industrial Visit	1.10	1.12
		Medical Checkup		
		Blood donation Camp		
4	2015-16	NSS	0.3	3.05
		ECT		
		SSS		
		Tree Plantation	1.5	0.51
		Earn and Learn	0.40	0.20
		Sports	0.50	0.15
		Technical Event	1.0	1.0
		College Magazine		
		College annual Function (Tarang)	4.0	4.4
		Industrial Visit		
		Medical Checkup		0.25
		Blood donation Camp		
		Youth Festival	0.5	0.74

3.6.5 **How does the institution promote the participation of students and faculty in extension activities including participation in NSS, NCC, YRC and other National/International agencies?**

The institution promote the participation of students and faculty in extension activities including participation in NSS, NCC, YRC and other National/ International agencies in following ways :

1. Institute conducts the various activities under NSS. Institute promotes the students time by time and provide facilities during camp like:

- Holiday during camp
- Camp
- Budgetary support

2. Two lady faculties are allotted per day in NSS camp to encourage and to increase participation of girl students.

3. Institute has created a RED RIBBON CLUB under YRS.

4. Institute organized the send off for the final students in that program our principal and director distribute the prize to students, who play the important role in various activities

5. Institute organized the felicitation program on 15th August and 26th January, in that program staffs are felicitated by our principal and director for their achievements.

6. Yoga sport and science.MOU is sign with Morgaratt Talbot.

3.6.6 Give details on social surveys, research or extension work (if any) under taken by the college to ensure social justice and empower students from under privileged and vulnerable sections of society?

1. College students visit various schools and colleges, conduct cyber security awareness program.

2. Students visit the orphanage under the mentor-ship of faculty. Students do the contribution and provide the lunch to orphanage. They donate old cloths to the orphanage.

3. During NSS camp underprivileged students of village have been given computer Handling.

4. Blank pages bank.

5. Medicine Distribution.

3.6.7 Reflecting on objectives and expected outcomes of the extension activities organized by the institution, comment on how they complement student's academic learning experience and specify the values and skills inculcated.

Following are the various objectives of extension activities.

1. Holistic development of students.

2. Awareness about the various aspect of society.

Table: 3.6.7 List of *Extension* Activities Organized by Institution

Sr.No.	Name of activity	Skill / Value inculcated
1	NSS	Social value, self-learning skill, team work, communication skill learning skill, moral values
2	Blood Donation	Social value

3	Orphanage visit	Ethical value, Social value, attitude
4	Cyber Security Awareness program	Presentation skill, Social value, motor skills
5	Annual Gathering "Tarang"	Social-cultural values
6	Tree plantation Value Education Program and Social Commitment Swachha Bharat Abhiyaan	Social value, team work , moral values
7	Personality Development (SSS)	self-learning skill, communication skill learning skill, , moral values
8	Celebration of Digital India Week Technical skill Empowerment (CTA)	Team work , communication skill learning skill, Technical Skill
9	Constitution Day Independence and Republic Day	Awareness of National Responsibilities, Ethical value

3.6.8 How does the institution ensure the involvement of the community in its reach out activities and contribute to the community development? Detail on the initiatives of the institution that encourage community participation in its activities?

1. Institute organized ISTE national convention.

2. Institute organized "Engineering in sport International Exhibition".

3. Global Conference.

4. Green Conference.

5. Institute has four core technical areas, through which institute interact with other communities.

3.6.9 Give details on the constructive relationships forged (if any) with other institutions of the locality for working on various outreach and extension activities.

1. Cyber security awareness program is conducted by college in association with Risk Quotient Pvt. Ltd. Mumbai.

2. Cyber cell, crime branch Amravati have encouraged for the program.

3. Institute has help line number.

4. Institute has child help center(1098)

5. Conducted Global Conference with HVPM DCPE.

6. Blood Donation Camps with HVPM DCPE.

7. Conducted ISTE National convention program with support of all engineering

college.

8. Pool Campus for placements.
9. Joint Training Programs (GATE, Workshops, STTPs, FDPs etc)

3.6.10 Give details of awards received by the institution for extension activities and/contributions to the social/community development during the last four years.

Table 3.6.10 Details of Awards received by the Institution

Sr. No.	Year	Name of the Award	Given By	Prize
1	2014-15	Environment Award	SGBAU, Amravati	Memento,15000 cash
2	2014-15	Best Annual College Magzine (3rd Rank)	SGBAU, Amravati	Memento,Certificate,3000 cash
3	2015-16	Best Annual College Magzine (1st Rank)	SGBAU, Amravati	Memento,Certificate,3000 cash
4	2016-17	Appreciation Award	ISTE New Delhi	Memento, Certificate

3.7 Collaboration

3.7.1 How does the institution collaborate and interact with research laboratories, institutes and industry for research activities. Cite examples and benefits accrued of the initiatives-collaborative research, staff exchange, sharing facilities and equipment, research scholarships etc.

Institute collaborates and interact with institutes, universities, industries for research, projects, consultancy, resource sharing. The purpose of interaction may be for higher studies, joint research, training, upgrading of skills, innovative studies etc. Following table gives the details regarding this.

Table: 3.7.1(a) Details of Collaboration with Organizations

Sr. No.	Name of faculty	Collaborating Organization	Topic
1	Dr. A. B. Marathe	NEERI, Nagpur	Waste management system
2	Mr. Zeshan Ali	Aspiring Minds Assessment PVT. LTD	AMCAT online Assessment test for all final year students

3	Mr. Shrikant Borgaonkar, Promotor	Pioneer Learning System, Amravati	Training for Industry Institute Interaction Program for Identified staff of CSE/IT/EXTC braches
4	Dr. U. A. Belorkar	Applied Electronics Department, SGBAU, Amravati	Analysis and design of low power phase locked loop with multiple output using VLSI technology.
5	Dr. U. A. Belorkar	Govt. of India & MCIT at IIT Bombay.	Fabrication and characterization of HfOx based RRAM synaptic cell
6	Dr. U. A. Belorkar and	Govt. of India & MCIT at IIT Bombay.	Characterization and fabrication of vertical 1T1R ReRAM cell
7	Prof. Jinal Tapar	Govt. of India & MCIT at IIT Bombay.	Fabrication and characterization of Silicon based memristor using TiO2
8	Dr. U. A. Belorkar and Miss. Srushti Tapar	Govt. of India & MCIT at IIT Bombay.	Characterization and fabrication of vertical nanopillar MOS transistor And oxide based ReRAM synaptic cell for neuromorphic computing
9	Prof. P. M. Kakde	JDIET, Yavatmal	Development Of An Efficient Hand written Devnagri Character Recognition System.
10	Prof. V. L. Agrawal	Applied Electronics Department, SGBAU, Amravati	Study of optimal classifier based on computational intelligence techniques for diagnosis of lung cancer
11	Prof. A. P. Vartak	PRMITR, Badnera	Improved Morphological Image segmentation techniques for identifying edge and background detection
12	Mr. Sayed Z. Abbas	Shree Trinity Infotech	Automation testing using selenium tool
13	Mr. Ampl Agarkar	Prolofic system & Technology	PLC skada
14	Dr. A. B. Raut	PRMIT, Badnera Amravati	Data mining
15	Dr. P. L. Ramteke	PG dept, CSE, SGBAU	Mobile Computing
16	Dr. M. E. Shelke	Jijamata Mahavidyalaya Buldana (SGBAU)	Synthesis of 1,3Diformamidinothiocarbamide hydrochloride derivatives and their cyclization to 1, 3, 5 thiadiazines and triazines.
17	Dr. P. K. Sontakke	G.V.I.S.H. Amravati	Study of distributional generalized fractional Heartly transform
18	Dr. V. M. Umarkar	R.D.I.K. & K.D.I. College Badnera	Study of two fluide cosmological model in higher dimension
19	Dr. V. P. Chaudhary	Deptt. Of Physics, SGBAU Amravati	Industrial noise control

| 20 | Dr. A. S. Shrirao | Govt. Engg. College Amravati (Chemistry deptt.) | Phisco chemical study of some thiopyrimidines derivatives by analytical technique. |
| 21 | R. R. Keole | P. G. Deptt. Of computer science SGBAU, Amravati | Design of an efficient approach to improve the performance of information retrieval in web search engine results. |

Industry visit by our student and faculty:

Table: 3.7.1(b) Details of Industry visits undertaken

Sr. No	Name & Address of Company	Date of Visit	No of Faculty Visited	No of Students Visited	Participating Branches	Academic Session
1	Chips Software System	20th Dec. 2013	5	65	EXTC	2013-14
2	Central Marine Fisheries Research Institute	20th Dec. 2013	5	65	EXTC	2013-14
3	SRS Infosystems™ Pvt. Ltd. 143, 2nd floor Thakre Bhavan, Abhyankar Nagar, Nagpur	5th Aug. 2014	5	Nil	CSE, IT, TPO	2014-15
4	Percept Web Solution, Reet Villa, Building No.4, Flat No.5 and 6, Aakar Bulders Colony, Chitnavis Layout, Byramjitown, Nagpur, Maharashtra 440013	5th Aug. 2014	5	Nil	CSE, IT, TPO	2014-15
5	Knowmax Software Pvt. Ltd. Ground Floor, NIT Complex, Gandhi Nagar, Hill Road, (Beside VNIT), Gandhi Nagar, Nagpur, Maharashtra 440010	5th Aug. 2014	5	Nil	CSE, IT, TPO	2014-15
6	Infocept, 11/1 I.T. Park, Parsodi, Nagpur, Maharashtra	5th Aug. 2014	5	Nil	CSE, IT, TPO	2014-15
7	Epapers Inc., Near Sonegoan Lake, 37/A1, Sahakar Nagar, Nagpur, Maharashtra 440025	5th Aug. 2014	5	Nil	CSE, IT, TPO	2014-15
8	SRS Infosystems™ Pvt. Ltd. 143, 2nd floor Thakre Bhavan, Abhyankar Nagar,	5th Aug. 2014	5	NIL	CSE,IT	2014-15

	Nagpur					
9	Mastiff solution Pvt. Ltd., Gulsshan Tower, Near Jaisthambh Square, Amravati	14th Aug. 2014	15	Nil	CSE, IT, TPO	2014-15
10	GlobalLogic India Pvt. Ltd. Harihar Nagar, Besa, Nagpur	19th Aug. 2014	5	NIL	CSE,IT	2014-15
11	Persistent System Ltd., 2nd, 3rd Floor, Infotech Tower, South Ambazari Road, M.I.D.C, Salt Lake, SMS India, Gopal Nagar, Subhash Nagar, Parsodi, Nagpur, Maharashtra 440022	19th Aug. 2014	5	Nil	CSE, IT, TPO	2014-15
12	Cryptex Technologies, 8, Gopal Nagar, Pratap Nagar, Nagpur	19th Aug. 2014	5	Nil	CSE, IT, TPO	2014-15
13	GlobalLogic India Pvt. Ltd. Harihar Nagar,, Besa, Nagpur	19th Aug. 2014	5	Nil	CSE, IT, TPO	2014-15
14	Mastiff solution Pvt. Ltd., Gulsshan Tower, Near Jaisthambh Square, Amravati	28th Aug. 2014	8	21	CSE , IT	2014-15
15	Smart Data, Nagpur	25th Sep. 2014	5	NIL	CSE,IT	2014-15
16	Tungsten Information Management C-404, Saudamini Commercial complex Right Bhusari Colony, Kothrud Pune - 411038 Maharashtra, India	11th & 12th Sept 2014	3	nil	CSE,IT	2014-15
17	Infocept, 11/1 I.T. Park, Parsodi, Nagpur, Maharashtra	8th Nov. 2014	5	18	CSE , IT	2014-15
18	HCL NAGPUR	30th Dec. 2014	4	21	IT	2014-15
19	Softech Solutions Pvt. Ltd. G.S, Anand Rajani Apts, I.T.Park Road OppDatta Mandir Nagpur	18th Dec. 2014	4	55	EXTC, CSE	2014-15

20	Sigma Electriclas u-54, MIDC, Hingna Road, Nagpur 4444016	18th Dec. 2014	4	55	EXTC, CSE	2014-15
21	Novatech Soft. Pvt. Ltd	18th Dec. 2014	4	55	EXTC, CSE	2014-15
22	Net magic RMM & Security(Mumbai)	19th Aug. 2015	6	NIL	EXTC	2015-16
23	Catrols (Mumbai)	19th Aug. 2015	6	NIL	EXTC	2015-16
24	Paledion Security, Mumbai	19th Aug. 2015	6	NIL	EXTC	2015-16
25	NSE-IT Ltd(Software testing & security)	20th Aug.2015	6	NIL	EXTC	2015-16
26	NIT Consulting	20th Aug. 2015	6	NIL	EXTC	2015-16
27	NSDL trademode	21st Aug.2015	6	NIL	EXTC	2015-16
28	Desai Haribhakti	21st Aug. 2015	6	NIL	EXTC	2015-16
29	Covergold MIDC	22-Aug-2015	6	NIL	EXTC	2015-16
30	Precision Automation & Robotics India Ltd. 6, NH4, Atul Nagar, Warje, Pune, Maharashtra 411058	10th Sept. 2015	2	Nil	EXTC, TPO	2015-16
31	Maitreyee IT Services Pvt. Ltd. 105, Gulmohar Centre Point Wadgaonsheri, Pune-Nagar Road, Pune: 411014	10th Sept. 2015	2	Nil	EXTC, TPO	2015-16
32	Tungsten Information Management C-404, Saudamini Commercial complex Right Bhusari Colony, Kothrud Pune - 411038 Maharashtra, India	11th Sept. 2015	3	Nil	CSE, IT, TPO	2015-16
33	Inteliment Technologies India Pvt. Ltd. Level 3, Meenasai, 4 Pushpak Park, Aundh-ITI Road, Aundh, Pune, Maharashtra 411007	11th Sept. 2015	3	Nil	CSE, IT, TPO	2015-16

34	Amdocs, CyberCity Tower 2, Magarpatta City, Hadapsar, Pune, Maharashtra 411013	11th Sept. 2015	3	Nil	CSE, IT, TPO	2015-16
35	ADP, IBM Campus, Fursungi, Pune	11th Sept. 2015	3	Nil	CSE, IT, TPO	2015-16
36	Insightant Technology Solutions Pvt. Ltd. Shree Maa Gayatri Krupa, First Floor, Lane No. 3, Vidya Nagar, Pimple Gurav, Pimpri-Chinchwad, Maharashtra 411061	12th Sept. 2015	3	Nil	CSE, IT, TPO	2015-16
37	Sungard Offshore Services (India) Westend Center One, 169/1, SangviKesri Rd, Harmony Society, Aundh, Pune, Maharashtra 411007	12th Sept. 2015	3	Nil	CSE, IT, TPO	2015-16
38	Survik Software Limited 2nd Floor, Sapphire Chambers, Baner Road, Opposite to Food Bazar, Baner, Pune, Maharashtra 411045	12th Sept. 2015	3	Nil	CSE, IT, TPO	2015-16
39	Zensar Technologies, Zensar Knowledge Park, Kharadi, Plot #4, MIDC, Pune, Maharashtra 411014	12th Sept. 2015	3	Nil	CSE , IT, TPO	2015-16
40	Persistent Systems, Nagpur	29th Jan. 2016	5	NIL	CSE,IT	2016-17
41	Tomoe School, Amravati	19th Oct. 2016	1	25	CSE,IT	2016-17
42	Cyber Security Cell Crime Branch, Amravati	24th Oct. 2016	1	25	CSE,IT	2016-17
43	Virtuoso Netsoft, Pvt. Ltd.	12th Sept. 2016	2	NIL	CSE,IT	2016-17
44	Bliss IT Solutions, Pvt. Ltd.	12th Sept. 2016	2	NIL	CSE,IT	2016-17
45	Infin Technologies, Pvt. Ltd.	12th Sept. 2016	2	NIL	CSE,IT	2016-17
46	Zscaler Softech Pvt. Ltd	12th Sept. 2016	2	NIL	CSE,IT	2016-17
47	SDP Labs	12th Sept.	2	NIL	CSE,IT	2016-17

48	Signity Software Solutions, Pvt. Ltd.	12th Sept. 2016	2	NIL	CSE,IT	2016-17
49	Weexcel Software Pvt. Ltd.	12th Sept. 2016	2	NIL	CSE,IT	2016-17
50	Futurework Technologies	12th Sept. 2016	2	NIL	CSE,IT	2016-17
51	Nysoftech Solutions	12th Sept. 2016	2	NIL	CSE,IT	2016-17
52	Visions	12th Sept. 2016	2	NIL	CSE,IT	2016-17

3.7.2 Provide details on the MoUs/ collaborative arrangements (if any) with institutions of national importance/ other universities/ industries/ Corporate (Corporate entities) etc. and how they have contributed to the development of the institution.

Much collaboration with other organizations has been made every year for institutional development. Following are the details of MoUs/ collaborative arrangements for the subjects/ field of mutual interest:

Table: 3.7.2(a) International MoUs signed

Academic Year	Name of organization	Subject/field of MOU	Contribution to institute development
2013-2016	GTC- German tours and conferences, Hamburg, Germany	Establishment of academic faculty development and student internship cooperation	faculty development and student internship
2013	Gerlev physical education and sports academy Denmark	On establishment of academic cooperation	Students and faculty development

Table: 3.7.2(b) National MoUs signed

Academic Year	Name of organization	Subject/field of MOU	Contribution to institute development
2016-17	Mitu Skillologies, Nagpur	Enriching technical education in new subject area	STTP for staff and sharing industry oriented courseware and technology
2015-2016	JDM, Design Technologies, Nagpur	Providing technical resources in the field of VLSI design	Providing technical resources in the field of VLSI design technologies

		technologies	
2013-2014	Dr.Babasaheb Ambedkar Marathwada University, Aurangabad	Research assistance & Guidance	Research assistance & Guidance
2014	Knowmax	Project development training	Software project development
2014	Code Instruct	PHP and MySQL workshop	Certified workshop for student
2012-2013	Military College of Engineering Mhow	Research assistance & Guidance	Research assistance & Guidance
2012	IBM (purple leap)	IBM academic project support program	Project development
2013	IEEE with HVPMCOET	Educational Provider	Certification program to faculty
2013	IBM	Carrier education program (web based)	Software project development

3.7.3 Give details (if any) on the industry-institution-community interactions that have contributed to the establishment/ creation/ up-gradation of academic facilities, student and staff support, infrastructure facilities of the institution viz. laboratories/ library/ new technology/ placement services etc.

Following are the details of industry institution interactions that have contributed to creation, up gradation of academic facilities:

Table 3.7.3 Details of Up-gradation of Placement Services

Academic Year	Name of Organization	Area of interaction	Particulars
2012-13	Single Point H. R. Mumbai	Conducted Mock Placement drive for Batch 2013 BE students of HVPMCOET, Amravati jointly with	Mr. Tuhin Mukharjee
	Pioneer Learning Systems	Soft Skill Training by for 5th Semester Students of BE	Mr. Shrikant Borgaonkar, Promotor
	Rishicool, Mumbai	Group Discussion and Personal Interview Practice activity 3 Sessions each per class by for Final year Students BE	Tuhin Mukharjee
	Pioneer Learning	Soft Skill Training by for	Mr. Shrikant

	Systems	5th Semester Students of BE	Borgaonkar, Promotor
	Single Point H. R. Mumbai	Conducted Mock Placement drive for Batch 2014 BE students of HVPMCOET, Amravati jointly with Single Point H. R. Mumbai	Mr. Tuhin Mukharjee
	Rishicool, Mumbai	Group Discussion for 1 Session and Personal Interview (Technical & Non-Technical) Practice 4 Session per class for Final year Students BE	Mr. Rahul Desai
	Seed Infotech, Pune	Conducted Seed IT Idol Contest First Phase (Technical Test of 60 Minutes)	Mr. Ghanasham Lokare
	Pioneer Learning	English Communication Training by Systems for 4th Semester Students of BE	Mr. Shrikant Borgaonkar, Promotor
	Seed Infotech, Pune	Aptitude Training Activity by for 6th Semester Students of BE	Ms. Pratiksha Tilekar, Mr. Narendra Kulkarni, Ms.Jasmine Khan,Ms. Poonam Singh
	Aspiring Minds Assessment PVT. LTD	Conducted AMCAT Test First Assessment for BE Batch 2014 (Computer Test of 3 Hours)	Mr. Zeshan Ali
2013-14	Aspiring Minds Assessment PVT. LTD	Conducted AMCAT Test Second Assessment for BE Batch 2014 (Computer Test of 3 Hours) from Aspiring Minds Assessment PVT. LTD	Mr. Zeshan Ali
	Aspiring Minds Assessment PVT. LTD	Conducted AMCAT Test First Assessment for BE Batch 2015 (Computer Test of 3 Hours) from Aspiring Minds Assessment PVT. LTD	Mr. Zeshan Ali

2014-15	Pioneer Learning Systems	Soft Skill Training by for 5th Semester Students of BE	Mr. Shrikant Borgaonkar, Promotor
	Epapers Educational HuB LLP, Nagpur	Conducted Mock Placement drive for Batch 2015 BE students of HVPMCOET, Amravati jointly	Mr. Ketan Kapale
	Creative Business Techniques	Mock Placement Drive by MK Placement, Nagpur for 7th Semester Students	Mr. Prakesh Shesh
	Creative Business Techniques	Mock Placement Aptitude Online Test by Nagpur for 7th Semester Students	Mr. Prakesh Shesh
	Aspiring Minds Assessment PVT. LTD	Conducted AMCAT Test Second Assessment for BE Batch 2015 (Computer Test of 3 Hours) from	Mr. Zeshan Ali
	Aspiring Minds Assessment PVT. LTD	Conducted AMCAT Test First Assessment for BE Batch 2015 (Computer Test of 3 Hours) from Aspiring Minds Assessment PVT. LTD	Mr. Zeshan Ali
	Smart data Enterprises, Nagpur	Mock Placement Drive for Green & Yellow Students of Batch 2015 Branches CS/IT by Agency M K Placements, Nagpur with team of Mr. Om Team Lead Grace Strategies, Nagpur & Mrs. Renu Khirodkar, HR	Mr. Om Team Lead Grace Strategies& Mrs. Renu Khirodkar, HR Smartdata Enterprises, Nagpur
	ACE Career Academy,	Syntel Campus pattern Practice session By (Paper Pencil Test of 60 Minutes)	
	Pioneer Learning Systems	English Communication Training for 4th Semester Students of BE	Mr. Shrikant Borgaonkar, Promotor
	Concept Academy,	Aptitude Training	Mr. Ashish Mithole

	Amravati	Activity by Concept Academy, Amravati for 6th Semester Students of BE (Partially completion of planned syllabus)	
	Seed Infotech, Pune	Conducted Seed IT Idol Contest First Phase (Technical Test of 60 Minutes)	Mr. Ghanasham Lokare
	Aspiring Minds Assessment PVT. LTD	Conducted AMCAT Test First Assessment for BE Batch 2016(Computer Test of 3 Hours) from Aspiring Minds Assessment PVT. LTD	Mr. Zeshan Ali
	Ready Tours and Travels Solution, Nagpur	Passport Camp for BE Students	
2015-16	Pioneer Learning Systems	Soft Skill Training for 5th Semester Students of BE	Mr. Shrikant Borgaonkar, Promotor
	passionEON, Amravati	Aptitude Training Activity for 7th Semester Students of BE (Partially completion of planned syllabus)	Mr. Aditya Hele
	Aspiring Minds Assessment PVT. LTD	Conducted AMCAT Test 2nd Assesment for BE Batch 2016 (Computer Test of 3 Hours)	Mr. Zeshan Ali
	passionEON, Amravati	Refresher Training For 7th Semester Students to Conduct By Mr. Aditya Hele,	Mr. Aditya Hele
	Online Vikalp Education, Mumbai	Workshop on Awareness about and importance of Aptitude test Conduct by Mr.Anant Farkade Director & Mr.Rishi Chouraisa Founder & Director, Online Vikalp Education, Mumbai for All 3rd Year Students	Mr. Anant Farkade & Mr Rishi Chouraisa

	Passion EON, Amravati	Aptitude Training Activity for 7th Semester Students of BE (Partially completion of planned syllabus)	Mr.Aditya Hele	
	Pioneer Learning Systems	English Communication Training for 4th Semester Students of BE	Mr. Shrikant Borgaonkar, Promotor	
	Aspiring Minds Assessment PVT. LTD	Conducted AMCAT Test First Assessment for BE students Batch 2017 (Computer Test of 3 Hours) from Aspiring Minds Assessment PVT. LTD	Mr. Zeshan Ali	
	Seed Infotech, Pune	Conducted Seed IT Idol Contest First Phase (Technical Test of 60 Minutes)	Mr. Ghanasham Lokare	
	B Ready Tours and Travels Solution, Nagpur	Passport Camp for BE Students		
2016-17	Meda(Maharashtra energy development agency, Pune)	Solar energy	Green Campus Project	
	CCIL, Clearing corporation dealing systems (India) limited Mumbai	Enhancement fund collaboration	Param Shavak Parellel Computing, 3-D Printing, IOT Instrument	
	Pioneer Learning Systems	Soft Skill Training by Pioneer Learning Systems for 5th Semester Students of BE	Mr. Shrikant Borgaonkar, Promotor	
	Govt. of India & MCIT at IIT Bombay.	VLSI and NANO Fabrication	Fabrication and characterization of HfOx based RRAM synaptic cell	
	Govt. of India & MCIT at IIT Bombay.	VLSI and NANO Fabrication	Characterization and fabrication of vertical 1T1R ReRAM cell	
	Govt. of India & MCIT at IIT	VLSI and NANO Fabrication	Fabrication and characterization of	

			Silicon based memristor using TiO2
	Govt. of India & MCIT at IIT Bombay.	VLSI and NANO Fabrication	Characterization and fabrication of vertical nanopillar MOS transistor And oxide based ReRAM synaptic cell for neuromorphic computing
	DST & TI Inc. India innovation challenge design context 2016, IIM Bangalore	Embedded system	Automatic vendor at Zip(AVAZ) A glimmer of hope
	Smart India Hackathon arranged by AICTE and Govt. of India	Internet of Things (IoT) and Cloud Storage	Smart Watch for getting 'Being Watched'

3.7.4 Highlighting the names of eminent scientists/ participants who contributed to the events, provide details of international conferences organized by the college during the last four years.

Details of National / International Conferences organized by college during last four years are given below.

Table: 3.7.4(a) Details of National-International Conferences held at institute

Sr. No.	AY	Name of conference	Eminent person who participated
1	2015-16	45th ISTE Annual National Convention and International Conference on "Challenges & Opportunities in Technical Education in the era of Sustainable Development" during 9-11 Jan,2016	Dr. Vishram Jamdar, Chairman, VNIT, Nagpur Dr. S. K. Mahajan, Director, Technical Education, Maharashtra state Dr. S. P. Kane, V.C., RTM university, Nagpur Dr. Mohan Khedkar, V.C., SGBA University, Amravati Dr. Pratapsingh K. Desai, President, ISTE New. Delhi Prof. Seeram Ramakrishna, Singapore Dr. V. S. Chaudhary, Director, VNIT, Nagpur Dr.V. S. Sapkal, Prof & Head UDCT SGBAU Amravati Dr. B. P. Chopane EX VC RTMNU Nagpur Mr. Sagar Deshpande Shri. C. D. Kajwadkar, Sr VP and Head IT –

			Clearing Corporation of India Mr. Nitin Ghatpande, Ex. Bramha Prakash Scientist ISRO, Bangalore Dr. ISAMU KOYAM , Japan Dr. M. L. Kamlesh, V.C. Gandhinagar Gujrat Prof. A. M. Moorthy, V.C. Tamil Nadu Physical Education Sports University, Chennai Dr. JatinSoni, V.C. Gujarat University, Gandhinagar Dr. Gulshan L. Khanna Mr. Wolfgang B Mr. Finn Berggren, President, Gerlev P. E & Sports Academy, Denmark Mr. Rolf Dungefeld, Denmark Mr. Tajma Toshid Japan
02	2013-14	One day Conference on GREEN TECHNOLOGY On Scientific & Engg. Solutions to Environmental Issues.	Dr. Dineshkumar Tyagi CCF & Field Director, Project Tiger Melghat Keynote Address : Sh. Dhananjay Dhawad Ex. Secretary, PWD, Mah. State.
03	2012-13	Global conference	Dr. Pratibhatai Patil, Dr. Mohan Khedkar,Dr. A. G. Kakde, Dr. Desai, Margaret Talbot and Dr. Marina
04	2012-13	Technizma-12	Dr. Kishor Burchandi, VNIT Nagpur, Dept. of Electronics & Telecommunication
05	2013-14	Technizma-13	Dr. V. M. Thakare, SGBAU Amravati, PG Dept of CSE, Dr. V. N. Chaudhari, JDIT, Yavatmal.

Names of eminent scientists/ Participants who contributed to different events during last four years are mentioned below.

Table: 3.7.4(b) Details of Visit of eminent persons to the institution

Year	Name of eminent person	Contribution to institute
2012-13	Mr. Shrikant Borgaonkar, Promotor, Pioneer Learning Sytems, Amravati	Resume Writing and GD PI Query Solving session for Final Year Students of Batch 2013 of Department of Electronics & Telecommunication Engg. of HVPM COET Amravati
	Mr. Shrikant Borgaonkar, Promotor, Pioneer Learning Sytems, Amravati	Resume Writing and GD PI Query Solving session for Final Year Students of Batch 2013 of Department of Information Technology of HVPM COET
	Mr. Shrikant Borgaonkar, Promotor, Pioneer Learning Sytems, Amravati	Resume Writing and GD PI Query Solving session for Final Year Students of Batch 2013 of Department of Computer Sci & Engg. of HVPM COET Amravati
	Mr. Vaishnav Sunil Kadu	Awareness about Green Glory Foundation and

		Membership campaign for NGO for all branch 2nd year students
2012-13	MR. Sudhir Raju Mateti	Expectations of Telecom Industry from Engineering Graduates
2013-14	Ms. Kalyani Bhokare	Interaction with Batch 2014 In Prespective of Campus in ADP, Pune
	Mr. Ashish Panjwani	Careers Orientation for CS/IT Students
	Mr. Ashish Panjwani,	Careers Orientation for EXTC Students
2014-15	Mr. Piyush Hande	Internship Program at Mastiff Solution, Amravati for Final and 3rd year CS/IT Students
	Mr. Somnath Shendage	Importance of Global Certification
	Mr. Shrikant Borgaonkar	Resume Refinement session for Final Year Students of Batch 2015
	Mr. Laxman Hedaoo	Virtual Internship Program at Knowmax Solutions, Nagpur for 3rd year IT Students
	Mr. Laxman Hedaoo, Knowmax Solutions Sc. Opc. Pvt. Ltd. Nagpur	Virtual Internship Program at Knowmax Solutions, Nagpur for 3rd year CSE-R Students
	Mr. Sagar Khuje	Virtual Internship Program at Knowmax Solutions, Nagpur for 3rd year CSE-G Students
	Mr. Shyam Patil & Mr .Dhruv	SAP Awareness Program for 3rd Year & Final Year Students of CS, IT & EXTC
	Mr. Shirish Wakil, Founder & Director Bizsence solutions, Nagpur	Industry Expectation from fresher
	Mr. Sumit Malpani, Technoltalk Engineering, Pune	Career Options for Mechanical Engineering graduates
2015-16	Mr. Vaibhav Kalane	Career Orientation
	Mr. Rajiv Ranjan	Company Awareness
	Mr. G. B. Khatri	Government Opportunities & Aptitude Skill
	Mr. Narayanan Ramanathan	On Campus projects
	Mr. Vikas Gadre	Domestic & International Industry's Perspective and expectations from engg. education
	Mr. Nitin Ghatpande	Special Talk on Mission on Mars (MOM)
	Mr. Brain Pereira	The Role and Expectations of Industry in shaping Engineering Education.
	Mr. Gajanan Palsule	The Role and Expectations of Industry in shaping Engineering Education.
	Mr. Shekhar Patankar	The Role and Expectations of Industry in shaping Engineering Education.
	Mr. Vilas Tathavadkar	The Role and Expectations of Industry in shaping Engineering Education.
	Mr. Babu Nair	The Role and Expectations of Industry in shaping Engineering Education.
	Mr. Anil Mahalle	The Role and Expectations of Industry in shaping

		Engineering Education.
	Mr. T. G. Chauragade	The Role and Expectations of Industry in shaping Engineering Education.
	Mr. Hiraman D. Aher	The Role and Expectations of Industry in shaping Engineering Education.
	Mr. Ravi Eppaturi	The Role and Expectations of Industry in shaping Engineering Education.
	Mr. Abhijiet Sen	The Role and Expectations of Industry in shaping Engineering Education.
	Mr. Parag V. Chepe	The Role and Expectations of Industry in shaping Engineering Education.
	Mr. Chittaranjan Kajwadkar	Member of governing body and member for CTA related with CS & IT
	Mr. Narayanan Ramanathan	Mentor and guide for summer internship program and project development.
2016-17	Mr. Ashok Saraf	.net, android, business development, elect fundamentals lab
	Mr. Sumit Malpani	Presentation on CTA-10"Automobile component testing
	Mr. Rohit Paradasani	Networking
	Mr. Umesh Agrawal	How to prepare for gate exam
	Mr. Sumit Malpani	Analysis of fit men
	Mr. Nitin Lokhande	Automation Engineering
	Mr. Chandak Shashank	Cost optimization and construction project for MEP
	Mr. C. Kajwadkar	Cyber Security Awareness program
	Mr. Chaitanya Kunthe	Cyber Security Awareness program
	Mr. Girish Dandiga	TCS initiative Digital Impact Square – DISQ
	Mr. Mandar Kulkarni	driving the Azure adoption across various business verticals
	Narayanan Ramanathan	On Campus projects
	Mr. Mandar Kulkarni	Dhayanachi Sahanirmiti
	Dr.Vasudha Kamat	Dhayanachi Sahanirmiti
	Mr. C. Kajwadkar	Dhayanachi Sahanirmiti
	Dr. Anil Sahasrabudhe	Live session topic on Desh Badal Raha Hai campaign of Smart India Hackathon 2017
	Mrs. Jaiswal	Vittiyasakshartaabhiyan(Digital financial literacy)
2015-16	Dr. U. A. Belorkar	UGC – human resource development center, SGBAU, Amravati.
		VNIT, Nagpur
		G. H. Raisoni, college of engg. And Management, Amravati
		DCPE,HVPM's, Amravati
		IETE-NTPC-2016
		Global Advanced Research Publication House, Amravati
2014-15	Dr. U. A. Belorkar	V-chip design and training pvt, ltd
		Dr. Panjabrao Deshmukh Girl's Polytechnic, Amravati

		UGC- Academic staff college, SGBAU, Amravati
	Prof. A. P. Vartak	Bhartiya Mahavidhyalay, Amravati
2013-14	Dr. U. A. Belorkar	EECO, P. R. Patil Institute of Poly. & Tech., Amravati
		P. R. Pote (Patil) Education & welfare Trust's, Group of Institution, College of Engg and Mang., Amravati
		Sipna college of Engg. and Tech., Amravati
		Sipna college of Engg. and Tech., Amravati
2012-13	Dr. U. A. Belorkar	EECO, P.R. Patil Institute of Poly. & Tech., Amravati
		Polytechnic, Badnera
		Sipna college of Engg. and Tech., Amravati
		P. R. Pote (Patil) Education & welfare Trust's, Group of Institution, College of Engg and Mang., Amravati
		DCPE,HVPM's, Amravati

3.7.5 How many of the linkages/collaborations have actually resulted in formal MoUs and agreements? List out the activities and beneficiaries and cite examples (if any) of the established linkages that enhanced and/or facilitated-

a) Curriculum development/enrichment:

b) Internship/On-the-job training: Think-soft , Trisha

c) Summer placement: BSNL,

d) Faculty exchange and professional development

e) Research

f) Consultancy

g) Extension

h) Publication

i) Student Placement

j) Twinning programmers

k) Introduction of new courses

l) Student exchange

m) Any other

College of Engineering & Technology aims at providing high quality technical education to its students. Its aim is to become a Centre of education training and skill development. Along with quality technical education, Soft skill

development is made an integrated part of regular academic under the imitative of skill sharpening schools; it has resulted in enhancing employability of rural / tribal students which are large in number in the college.

To encourage students for research, domain based special training is also given to pre-final & final year students. **Information security, RIMM, Software testing & Software development** are identified areas for special focused training and monitoring of students resulting in enhancement in employability of students. Collaborations have actually resulted in formal MoUs and agreements are as below.

Table: 3.7.5(a) Different Agreement/MoUs covering varied fields
(Please try to insert pie chart for this data)

Sr. No.	Area of Agreement/MoUs	Number of MoUs/Agreements
1	Curriculum development/ enrichment	3
2	Internship/ on-the-job training	1
3	Summer placement	--
4	Faculty exchange and professional development	2
5	Research	2
6	Consultancy	--
7	Extension	1
8	Publications	**--**
9	Student placement	**--**

Table: 3.7.5(b) Details of agreement / MoUs signed as a result of collaboration

Sr. No.	Area of agreement/MoUs	No. of agreement/ MoUs	Activity	Beneficiaries
1	Providing technical resources in the field of VLSI design technologies JDM Technology	1	Research assistance & Guidance	Students
2	Research assistance & Guidance ZAA Industry	1	Research assistance & Guidance	Students
3	Research assistance & Guidance Dr.Babasaheb Ambedkar Martwada University, Aurangabad	1	Research assistance & Guidance	Students
4	IEEE Educational provider	1	Certification program to faculty	Staff
5	IBM Carrier education program (web based)	1	Software project development	Students

6	IBM Academic project supporting program	1	Project development	Students
7	Project development training	1	Software Project development	Students
8	PHP and MySQL Workshop	1	Certified workshop	Students
9	Enriching technical education in new subject area	1	STTP	Staff and student
10	Summer internship program	--	Live project development and assessment by industry person	Students
11	Core technical area: Placement Activity	--	Training and project development	Students

3.7.6 **Detail on the systemic efforts of the institution in planning, establishing and implementing the initiatives of the linkages/ collaborations. Any other relevant information regarding Research, Consultancy and Extension which the college would like to include.**

The systemic efforts of the institution in planning, establishing and implementing the initiatives of the linkages/ collaborations:

1. Inviting experts on various occasions viz. National/International conferences, training and placement programmers.

2. Deputing Head of Departments, Senior Faculties and Placement Co-coordinator to understand the expectations of the industries from fresh graduate/ faculties.

3. Preparation of course materials on beyond syllabus as per the industry expectations and validation of the same from them.

4. Inviting industry experts as a resource person/ adjunct faculties for beyond syllabus course delivery/evaluation.

5. To depute Head of Departments, Senior Faculties to seek industry internship for the students who have undergone such courses.

6. Inviting high profiled industry experts to be a member of governing body of the college or mentor for such specialized programs.

7. Signing Memorandum of Understanding with their industry/institute for employability enhancement program/ internship/ placement.

The relevant information regarding Research, Consultancy and Extension would like to include:

- Solid waste management plant installation by the institute at Amravati Municipal Corporation, Amravati.
- Research projects by students and faculties at IITs.
- Funding from different agencies/industries to establish research labs
- Rain water harvesting at adopted villages.
- Solar plant and RO water plant in institute.
- MoUs with National and International Institutes/Organization.

CRITERION- IV
INFRASTRUCTURE AND LEARNING RESOURCES

4.1   Physical Facilities

4.1.1   What is the policy of the Institution for creation and enhancement of infrastructure that facilitate effective teaching and learning?

The Institute has always adopted policies and procedures to create the infrastructure at par with the standards and norms of AICTE and SGBAU with respect to the human resources, laboratory equipment, built-up area, learning resources and other teaching learning aids. The required demands had been strived to be satisfied whenever the variation in existing intake or new courses were introduced. The infrastructure required is planned by various departments and annual budget is prepared. After getting the approval from the management, the necessary actions are initiated. The policy followed by the Institution for creation and enhancement of infrastructure that will facilitate effective teaching and learning is as to comprehensively include but not limited to following:

1) To fulfill statutory regulatory norms and regulation regarding infrastructure.

2) To fulfill requirement of additional infrastructure as per university curriculum and syllabus.

3) To provide advance ICT infrastructure.

4) To provide amenities infrastructure.

5) To provide infrastructure for research, innovation and development.

6) To provide infrastructure for curriculum enrichment, skill development and employment enhancement.

7) To provide books journals e-resources, digital library and other infrastructure to knowledge resource center.

8) To develop computer center with adequate computer requirements, language laboratories, virtual class room, seminar halls.

9) Policy of institution in this respect is also reflected in mission, vision, objective & goal of institution.

10) Computers and Software

4.1.2 Detail the facilities available for

a) **Curricular and co-curricular activities – classrooms, technology enabled learning spaces, seminar halls, tutorial spaces, laboratories, botanical garden, Animal house, specialized facilities and equipment for teaching, learning and research etc.**

b) **Extra –curricular activities – sports, outdoor and indoor games, gymnasium, auditorium, NSS, NCC, cultural activities, Public speaking, communication skills development, yoga, health and hygiene etc.**

Details of infrastructure facilities available for effective Teaching, Learning and Research:

a) Co-Curricular activities:

Classroom, technology enable learning spaces, seminar halls, tutorial spaces, Laboratories, specialized facilities And equipment for teaching, learning and research are as follows

The following table shows the details of facilities available in the Institute:

Table 4.1.2 (a): Facilities available for Curricular & co-curricular activities

Facility	Total Number	Total Area in sq.m
Class rooms	17	1426.3
Laboratories	40	3353.8
Tutorial	04	144
Seminar Halls	03	397.09
Workshop shed (Labs)	03	650
Drawing Hall	01	133.07
Research Labs	03	199.69
Computer center	01	152
Language lab	01	60
Equipments and instruments-	All laboratories are equipped with sufficient modern equipments and instruments	

Table 4.1.2 (b): Teaching Aids and specialized facilities available for co-curricular activities

Teaching Aids and specialized facilities	Total Numbers available
LCD projectors	11
Virtual class room setup -	02
Computers	329
High speed internet lease lines -	03
Advance application softwares -	03
Operating system software and Microsoft campus agreement	10

b) Facilities available for Extra –curricular activities –

For sports, outdoor and indoor games: The institute belongs to a century years old trust Hanuman Vyayam Prasarak Mandal which is dedicated for physical fitness and youth empowerment. The campus has been sports & games facilities which are also available for student of our institution.

Table 4.1.2 (c): Facilities available for sports and games

Sr.No.	Facilities/Ground
1.	Indoor for badminton and table tennis
2.	Three Basket Ball Court
3.	Cricket Ground
4.	Football Ground
5.	Kabaddi Ground
6.	Three Volley ball ground
7.	Two Kho-Kho ground
8.	Swimming Pool
9.	Area for Mallkhamb
10.	Athletic ground
11.	Wrestling hall
12.	Hand Ball Ground
13.	Tennis Court
14.	Soft Ball Ground
15.	Ball badminton Ground
16.	Judo hall
17.	Hockey Ground

Other infrastructure for physical fitness and wellness:
Yoga Center, Aerobic Center, Well Equipped Health club, Indoor for Gymnastic
Initiatives for other social activities:
- NSS/NCC
- Helpline
- Tree plantation (LAPTOP)
- Srujan Group (Orphanage)
- Rain Water Harvesting
- Waste Management
- No Vehicle Day
- Shetkari Abhiyan (Projects for Farmers)
- Solar Power Plant

4.1.3 **How does the institution plan and ensure that the available infrastructure is in line with its academic growth and is optimally utilized? Give specific examples of the facilities developed, augmented and the amount spent during the last four years (Enclose the Master Plan of the Institution campus and**

indicate the existing physical infrastructure and the future planned expansions if any).

Following is the manifestation of the facilities developed/augmented with academic growth and the amount spent on it during the last four years.

(ANNEXURE- 3)- Master Plan of the Institution campus

Table 4.1.3 Details of facilities developed and amount spent

Year	Academic Growth and Development	Facilities		Investment (in lacs of Rs.)
		Required	Augmented/ Developed	
2013-14	Development of ICT infrastructure, Lab Modernization of existing course and for two ME courses i.e. ME in 1) *Electronics and Telecommunication* 2) *Computer Science and Information Technology* started in year-2013-14	Construction of New classroom- 01 Nos. New Research Lab.- 02 Nos. and development of existing lab- 02 Nos.	New classroom- 01 Nos. New Research Lab.- 02 Nos. and development of existing lab- 02 Nos.	Rs. 38.74
		Lab. Equipments		Rs. 3.82
		Furniture, fixture and equipment		Rs. 8.91
		Electrical and Power		Rs. 11.92
		Computer and Software		Rs. 30.14
2012-13	Development of ICT infrastructure, Lab Modernization of existing course and New two division of BE 1) *Electronics and Telecommunication* 2) *Computer Science and Information Technology* and one Course of ME 2) *Computer Science and engineering* started in year-2012-13	Construction of New classroom- 01 Nos. New Lab.- 02 Nos. and development of existing lab- 02 Nos.	New classroom- 01 Nos. New Lab. - 02 Nos. and development of existing lab- 01 Nos.	Rs. 47.93
		Lab. Equipments		Rs. 6.47
		Furniture, fixture and equipment		Rs. 12.16
		Electrical and Power		Rs. 2.95
		Computer and Software		Rs. 18.00

4.1.4 How does the institution ensure that the Infrastructural facilities meet the requirement of students with physical disabilities?

1. Institute provides room at ground floor, for university examination along with helper tutor as per need.
2. Ramp is available.
3. User friendly wash room on ground floor.

4.1.5 Give details on the residential facility and the various provisions available within them:

Boys and girls hostels are available in campus itself with lodging, boarding and other facilities show in the table given below.

Hostel facilities:

Table 4.1.5 Details of hostel facilities available in the campus

Amenities	Boys Hostel-I (Amber)	Girls Hostel-I (Kasturba)	Girls Hostel-II (Rani Laxmibai)
No. of Rooms with requisite facilities	06	09	18
No. of Students	18	27	54
No. of Staff	02	01	01
Recreational facilities			
T.V Room	Nil	Nil	01
Reading Room/Study Hall	02	-	01
Gymnasium	Available		
Yoga center	Available		
Security	High security provide		
Facilities for medical emergencies	Ambulance, with driver, doctors on panel, first aids available		
Mess Room	Available		
Constant Supply of Water & water-cooler	Available		

4.1.6 What are the provisions made available to students and staff in terms of health care on the campus and off the campus?

The provisions made available to students and staffs in terms of health care on the campus facilities are as follows:

➢ First aid facility, ambulance with driver and visiting Doctors facility available in the campus of trust in which college is located
➢ Group health insurance scheme for faculty, staff and their family members
➢ Regular health checkup and physical fitness checkup for students
➢ Separate common room with sanitary napkin machine for girls available.

- Regular checkup and specialized treatment facilities available in the nearby the same trust, can be made use of by faculty, non-teaching staffs and students.
- Parent trust has Aurvedic medical college
- 24*7 ambulance
- Naturopathy Center
- Health Club
- Sick room

Off the campus facilities are:-
- Parent trust has Aurvedic medical college
- Medical officer
- 24*7 Ambulance Service
- OPD Section
- Child care
- Help Line

4.1.7 Give details of the Common Facilities available on the campus –spaces for special units like IQAC, Grievance Redressal unit, Women's Cell, Counseling and Career Guidance, Placement Unit, Health Centre, Canteen, recreational spaces for staff and students, safe drinking water facility, auditorium, etc.

Details of the Common Facilities available on the campus:

Table 4.1.7 Details of the Common Facilities available on the campus

Common Facilities	Availability	Block/Floor/Room
IQAC Cell	Yes	Admin. Block /2nd floor (T&P Section)
Grievance Redressal Unit	Yes	1st floor
Women's Harassment prevention Cell	Yes	Near HoD Cabin 2nd floor
Counseling and career guidance	Yes	2nd floor (T&P Section)
Training and Placement Cell	Yes	2nd floor Admin. Block
Health Centre	Yes	In Campus (Trust)
Canteens/ Cafeteria	Yes	In College Campus
Auditorium	Yes	In Campus (Trust)
Garden with fountain	Yes	In College Campus
Safe drinking water facility	Yes	RO Water plant at terrace
Co-operative Store	Yes	In Campus (Trust)
banking facility	Yes	Credit co-operative society
Post Office	Yes	In Campus
Generator/Power back up facility	Yes	Power Room
Transport	Yes	Transport Section (Trust)

Vehicle parking (2 wheeler/4 wheeler)	Yes	In College Campus
Open Arena	Yes	On Terrace and ground

4.2 Library as a Learning Resource

4.2.1 Does the library have an Advisory Committee? Specify the composition of such a committee. What significant initiatives have been implemented by the committee to render the library, student/user friendly?

Yes, Library has an Advisory Committee for administering, organizing and maintaining the library services and also to support preparation of budget and proposals for the development of the Library. The Composition of the committee is:

  (i)   Chairman   : Principal

  (ii) Member   : All Heads of Department, **or** his/her nominee

  (iii) Member Secretary   : The Librarian

Significant initiatives implemented by the committee to render the library users friendly.

- SOPs
- Subscription of the e-journals packages
- Scheme to authorize the faculty and student members to purchase the
- Required books under "PURCHASE- USE-TRANSFER SCHEME" (P-U-T) on their own level.
- Proposal of digital library and the Digital School
- Submission of proposal for networking of college library with affiliated University

4.2.2 Provide details of the following:

- **Total area of the library (in Sq. Mts.)**
- **Total seating capacity**
- **Working hours (on working days, on holidays, before examination days, during examination days, during vacation)**
- **Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources)**
- ❖ Total area of the library (in Square Meters) - 550 sq.m

The College Central Library is situated at "Dyanmandir Building". The two story library building is located near to Engineering College hostel. Hence it is used by hostel students during off hours too.

Table 4.2.2 Detailed area-wise composition of library of the institute

Name of Section	Floor	Areas in Sqm
Reading Room –I	Ground floor	80.91
Reference Section	Ground floor	41.65
Stack room	Ground floor	159.64
Circulation Section	Ground floor	17.70
Librarian cabin	Ground floor	10.17
Technical and processing section	Ground floor	10.17
Discussion Room	Ground floor	21.01
Reading Room-II	First floor	129.24
Digital Library	First floor	79.51
Total		**550.00**

❖ Total seating capacity-   For Two Hundred (200) Nos.
❖ Library Working Hours-
• On working days   9.00 am to 5.45 p.m.
• On Holidays   9.00 am to 2.00 pm
• Before examination days   9.00 am to 8.00 pm Extended on student's demand
• During examination day   9.00 am to 8.00 pm Extended on student's demand
• During vacation   9.00 am to 2.00 pm

❖ **Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources)**
   Attach layout MAP

Figure 4.2.2(a) Layout of the library's ground floor
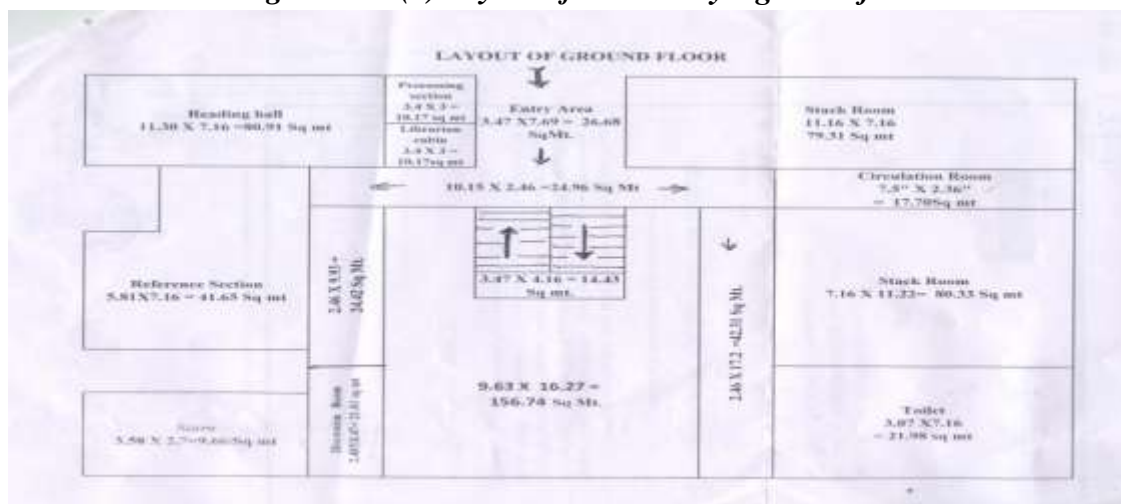
Figure 4.2.2(b) Layout of the library's first floor
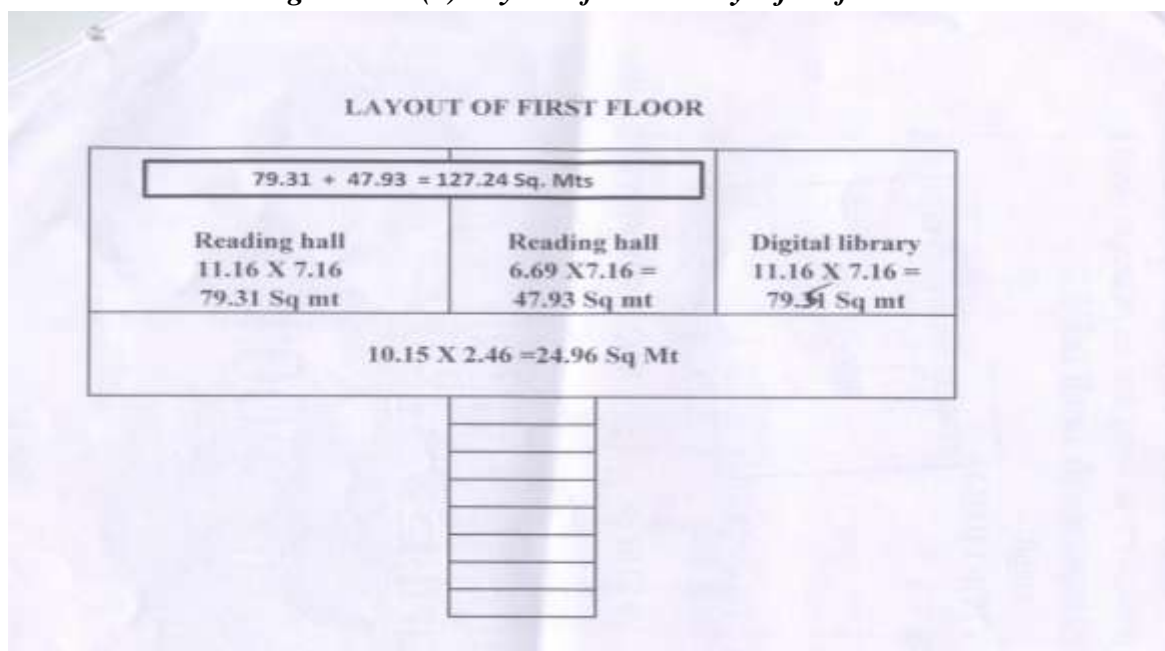
4.2.3 How does the library ensure purchase and use of current titles, print and e-journals and other reading materials? Specify the amount spent on procuring new books, journals and e-resources during the last four years.

- Statutory regularity bodies i.e. AICTE has set rule and norm of procurement of requisite no., volumes and title of books as well as national/ journals, e-journal packages, and e-books.

- It is mandatory to comply with this condition to get continuation of approval every year. The provision and it compliance itself ensure the purchase every year.

- The library has schemes like book bank wherein every admitted student is given a set of books (at least one book per subject) of all the subjects of semester. The set of books are issued at the start of academic semester and permitted to remain with student till the end of exam.

- The teachers are motivated to publish papers in national/International journals and to present papers in seminar, and conferences. It necessitates the faculty to refer current titles and journals. The amount spent on procuring new books, journals and e-resources during the last four years is detailed out in the following table.

Table 4.2.3 Amount spent on procuring new books, journals and e-resources

Library holdings	Year -1 (2016-17)		Year – 2 (2015-16)		Year – 3 (2014-15)		Year – 4 (2013-14)		Year – 5 (2012-13)	
	Nos.	Total Cost (in Lacs)	No. s	Total Cost (in Lacs)	Nos.	Total Cost (in Lacs)	Nos.	Total Cost (in Lacs)	Nos.	Total Cost (in Lacs)
Books	553	2.73	766	3.70	4837	17.56	1189	5.48	1642	5.94
Reference Books	00	00	44	0.3	336	0.56	58	0.14	114	0.26
Journals/ Periodicals	65	1.19	69	1.40	69	1.40	65	1.26	48	00.93
e-resources	2	00.92	2	00.92	1	00.67	1	00.67	08 Package	12.67

4.2.4 **Provide details on the ICT and other tools deployed to provide maximum access to the library collection?**

Details of ICT and other tools deployed to access to library are listed below

❖ **OPAC :** Yes,

An Online Public Access Catalog (OPAC) is a database of materials held by a library. Users typically search a library catalog to locate books, periodicals, audio/visual materials or other items under control of a library. It is made available.

❖ **Electronic Resource Management package for e-journals:** Yes,

The Library subscribes important e-Journals Packages as per the AICTE approval process guidelines in the field of Science and Engineering Technology. All the E-journal packages have user ID and password based subscription access. The college library has provided user ID and password to the users for access of e-journals. The Following   E-Journals Packages are subscribed by the Library.

i.   J-Gate: J-Gate provides seamless access to millions of journal articles available online offered by 13,172 Publishers. It presently has a massive database of journal literature, indexed from 44,759, e-journals with links to full text at publisher sites.

ii. Pro-quest**:** This database is a definitive resource for students studying both the applied and general sciences. With coverage dating back to 1986, Pro-Quest Science Journals features over 1030 titles, with more than 760 available in full text. Search over 2.7M records, dating back to the mid-1980s.

❖ **Federated searching tools to search articles in multiple databases:**   NO

❖ **Library Website:-** The Library link is available on college website (www.hvpmcoet.in)

❖ **In-house/ remote access to e-publications:-** Yes, In-house and Remote access to e-resources subscribed by the Library is available to users through using college-Id as a username and password which is given to users by library

❖ **Library automation** :– Partially automated

  Library management software updated version SOUL 2.0 for activities likes Book Acquisition, Cataloguing, Issue-Return, Report generation is used. Issue and Return of books is fully bar-code based. Books and Borrowers ID Cards have bar codes.

     ❖ Total number of computers for public access-   11 Nos.

     ❖ Total numbers of printers for public access-   01 No.

     ❖ Internet Band width / Speed-line   10 Mbps

❖ **Institutional Repository-** Yes
❖

Institutional Repository is available in library to extend offline access services to library users. Library has added many e-resources such as, notes, presentations, question papers and solution, lecture videos. E-books etc.

❖ **Content management system for e-learning**

E-learning repository developed by faculty, e-books, e-journals, NPTEL Videos, MOOC courses, and other resources are made available offline/online by providing access and updated regularly.

❖ **Participation in Resource sharing networks/consortia (like INFLIBNET)-** Yes (DELNET) , Membership of National Digital Library , SGB Amravati University consortia

4.2.5 Provide details on the following items:
➢ **Average number of walk-ins:-**   2232 per year (Since-2012-13)
➢ **Average number of books issued/returned-**
    ♦ Issued-   7031 per year (Since-2012-13)
    ♦ Returned- 6528 per year (Sence-2012-13)
➢ **Ratio of library books to students enrolled-**   17:1 (for 2015-16)
➢ **Average number of books added during last three years**   2725.33 (Since- 2013-14)
➢ **Average number of login to OPAC-**   Approximately 600-700 per year
➢ **Average number of login to e-resources-**   2270 per year 01/01/2013 To 31/12/2013, 06/03/2015 To 05/03/2016 and 24/05/2016 To 15/12/2016
➢ **Average number of e-resources downloaded/printed**-   2270 per year
❖ **Number of information literacy trainings organized -**   8

❖ **Details of "weeding out" of books and other materials?-**

No, weeding out of books and other materials on till date since library was formed in the year 2002-03 and is about only 14 years old.

4.2.6 Give details of the specialized services provided by the library

Specialized services provided by the libraries are:

- There is no membership fee or any other charges for the services.
- It provides borrowing facility of books under the Inter Library Loan Service to & from other libraries of the colleges located in the campus.
- Library disseminates new announcements, acquisitions, and services through its notice to all academic departmental and on administrative board as well as through digital mode.
- Other important facilities made available are given below:

  ➢ Manuscripts-   No
  ➢ Reference-   YES
  ➢ Reprography-   YES
  ➢ ILL (Inter Library Loan Service) -   YES
  ➢ Information Deployment and Notification-   YES
  ➢ Download-   YES
  ➢ Printing-   YES
  ➢ Reading list/ Bibliography compilation-   YES
  ➢ In-house/remote access to e-resources--   YES
  ➢ User Orientation and awareness-   YES
  ➢ Assistance in searching Databases-   YES
  ➢ INFLIBNET/IUC facilities-   Yes
     (DELNET)
  ➢ NDL   YES

Apart from this, Library and Information Centre also provides following services:

Current Awareness service (CAS):-

- Library regularly scans journals content page received in the library. Important and relevant articles are indexed in the library for the users and also sent to the users through e-mail.
- It provides scan journal article or any other requests received from library users, which are available in library collection and fulfills need of library users.

Purchase- Use-Transfer Scheme (P-U-T)

Library has the scheme regarding library books i.e. P-U-T (Purchase –use - Transfer) Scheme where college has given authority to the faculty and student

members to purchase the required books on their own level according to the following condition laid down by library.

i. Scheme is for semester
ii. Books remain with the users till end of theory examination throughout the session.
iii. Original bill should be in name of Principal HVPM's College of Engineering and Technology, Amravati.
iv. Every member of the Scheme is responsible for the books safe custody and has to return book to the library in good condition.
v. Damaged, marking or misplaced pages books etc are not accepted.

- **Book Bank Scheme**
  i. Social Welfare Caste Book Bank
  ii. College Book Bank
- **Internet Facilities**

  The internet services are provided free of charge, to the faculty members and research students.
- **Information Alert Services**

  The library continues to alert the users about latest information of their interest by:
  - News items display
  - Display of Forthcoming conferences, national and international events,
  - Book exhibition organized for students, faculty and staff to browse and select latest publications in their subjects
- **Old question paper Solution and reading materials**

  This service is provided for the preparation of examinations.

4.2.7 Enumerate on the support provided by the Library staff to the students and teachers of the college.
- Accession and search of books
- Suggesting/ recommending suitable reading/ reference materials
- User friendly attitude & behavior to develop ambience
- Support to follow rules, regulation and discipline

All services reported in Point No. 4.2.6 are with the support of library staff.

4.2.8 What are the special facilities offered by the library to the Visually/physically challenged persons? Give details.

- Issue and return counter, stack room and reading room are located at ground floor.
- Physical support and preferential treatment is given.
- Ramp is provided for easy entrance.

4.2.9 Does the library get the feedback from its users? If yes, how is it analyzed and used for improving the library services. (What strategies are deployed by the Library to collect feedback from users? How is the feedback analyzed and used for further improvement of the library services?) Yes,

Table 4.2.9 Details of library feedback and its impact

Strategy/ Methods of feedback	Examples of feedback	Action taken on feedback
- The suggestion Box - Demand register - SRC feedback - Faculty/ Staff feedback - oral representation - Informal meeting - Through mentors - Feedback form	Extension of timing during examinations, Creation of section of GATE and other competitive examination, Information service for placement opportunity,	Library timing extended A separate section with adequate books and other infrastructure including placement opportunity are regularly informed to final year students.

4.3 IT Infrastructure

4.3.1 Give details on the computing facility available (hardware and Software) at the Institution

- **Number of computers with Configuration (provide actual number with exact configuration of each available system)**

Table 4.3.1(a) Number of computers with Configuration:

Sr.No	Configuration	No
01	HP: Intel Core I3 -6100, RAM 4GB, 500 GB HDD, 3.7 Ghz, 3 MB cache, 2 Cores, Monitor 18.5 LED	50
02	Computer System (HP Branded) Core I3 /4GB/250GB/DVD/MON	30
03	Lenovo Desktop H50-50 (MTM NO 90B7007LIN) Intel Core Duel Core 3.2GHZ/4GB RAM/ 500GB HDD/6 USB PORT/ Keyboard & Mouse Nic Atx/18.5 Screen/OS-DOS/ONE Year, MTM NO. 90B8002HIN S.NO. R301E2YZ/2X5Lenovo TFT 18.5 LED MTM NO. 18201337	10
04	Lenovo H50 Desktop Intel Core Duel Core 5th Gen./3.2GHZ/2GB RAM/ 500GB HDD/Lan NIC/ Atx 18.5" Screen/OS-DOS/ Keyboard & Mouse, MTM No. 90B7009DIN	05
05	Lenovo Desktop H50-50 (90B7007LIN) Intel Core Duel Core 3.2GHZ/4GB RAM/ 500GB HDD/6 USB PORT/ Keyboard & Mouse Nic Atx/18.5 Screen/OS-DOS/ONE Year, MTM NO. 90B7007LIN	10

06	Lenovo Desktop H520S, Intel Dual Core, 260GHZ/ 500GBHDD/2GBRAM/ DVDRW/ OS-DOS, MTM No.57331034, Sr.No.ES13566727/ES13624470/ ES13566182/ES13630357, Lenovo TFT LED 18.5" Lenovo Screen MTM No.65A1-AB1 Sr.No.66ML1641E3301342/6ML-1253E48N0137/ 3ML-1641E2500745/3ML164E2501780	04
07	Lenovo DT H50-50-90B7000 AIN Intel dual core /3.0GHZ/ 4THGEN-2GB RAM / 500GB HDD/ DVD RW / LAN NIC /USB-6 port/HDMI/Key board/ Mouse/ OS-DOS/ ATX / Lenovo 18.5 LED Screen TFT (65A1 AB1)	05
08	Lenovo DT H50-50-90B7000 AIN Intel dual core /3.0GHZ/ 4THGEN-2GB RAM / 500GB HDD/ DVD RW / LAN NIC / 10/100/1000 MBPS / LED Screen 18.5" ATX / OS-DOS, LENOVE KEYBOARD MOUSE	05
09	Lenovo Intel dual core/2-6 GHZ/ 500GB HDD/ DVD RW / 2 GB RAM/ LAN NIC / 10/100 MBPS / LED Screen 18.5" ATX Lenovo with ADAPTER / OS-DOS, HMN-LENOVO 18.5 TFT	05
10	Lenovo Desktop –Lenovo DT-57322440, SN.NO. G02030T, Intel Dual Core 2.6 GHZ/500GB HDD/Key Board/Mouse/LAN NIC 10/100/1000MBPS/18.5" LENOVO LED SCREEN/ O/S -DOS/ATXDPAT/4GB DDR3 RAM ES.1313568/ ES.13481303 /ES.13481297 / ES.134481108 /ES.13481225 Hmn-Lenovo 18.5 TFT, 3ML1253EO6N4895/ 3ML1641E2700171/ 3ML164E2700182/ 6ML164E2500581/ 3ML164E2700172	05
11	Lenovo Desktop H520S MTM 57322440 CPU-Dual Core 2.6 GHZ RAM-4 GB DDR3, HDD-500GB SATA LAN-10/100MBPS,6USB Port/ Cardreader OS-Free Dos Lenovo wide Screen 18.5	05
12	DELL Desktop-Dual Core Intel DC-2.8 GHZ/2GB/ 500GB/DVDRW/KEYBOARD/MOUSE/LANNIC/18.5" LEDSCREEN LANNIC10/100MBP/ATX CANINET - O/S-DOS	60
13	Lenovo DT H430-57306154, Intel Dual Core 2.8GHZ/ 4GB DDR3 RAM/500 GB HDD/ 10/100/LANNIC/18.5" LED Screen/ Lenovo ATX with Power supply Key Board/ Mouse LENOVO o/S-DOS	22
14	Lenovo Desktop H520S Lenovo Desktop PC, Intel Core I3-3.03 GHZ/ 4GB DDR3 RAM/500 GB HDD/Lan NIC10/100/1000/ MBPS/ 20" LED Screen/ Lenovo ATX with SMPSo/S-DOS, Key Board/Lenovo Mouse.	28
15	Lenovo Desktop Intel Dual Core 2.7 MHZ, 2+2=4 GB DDR3 RAM/500GB HDD/DVDRW USB Slots/Card Reader Keybord/Mouse Os Windows 7 Starter Win Media List,18.5" TFT Linovo	20

16	Lenovo Desktop Intel Dual Core 2.7 MHZ, 2+2=4 GB DDR3 RAM/500GB HDD/DVDRW USB Slots/Card Reader Keybord/Mouse Os Windows 7 Starter Win Media List,18.5" TFT Linovo	20
17	Lenovo Desktop Intel Dual Core 2.7 MHZ, 2+2=4 GB DDR3 RAM/500GB HDD/DVDRW USB Slots/Card Reader Keybord/Mouse Os Windows 7 Starter Win Media List,18.5" TFT Linovo	03
18	Lenove Desktop H330 Intel Dual Core 2GB DDR3 RAM/500GB HDD/DVDRW/OS-DOS	15
19	Lenove - Intel Dual Core, intel G41 chipset, 4Gb, DDR3 RAM, 320 GB SATA or Higher, multimedia USB Keyboard optical Scrolling Mouse with mouse pad, 1 Paraller port, 1 serial port, 1 PS/2 port for mouse, 4 USB ports 10/100/1000 mbps Ethernet, mini tower 185 wide TFT / LCD Monitor or higher windows 7 starter preloaded.	15
20	Wipro Desktop Intel Dual Core 2-5 GHZ, 2 GB RAM / 160 GB HDD Sata 18.5", TFT Screen with Speakar, DVD WR, Key board, Mouse Optical, Lan built in ATX Cabinet 450W 0.5 windows Vista Satarter.	40
21	Wipro Desktop Intel Dual Core 2-5 GHZ, 2 GB RAM / 160 GB HDD Sata 18.5", TFT Screen with Speakar, Key board, Mouse Optical, Lan built in ATX Cabinet 150W 0.5 windows Vista Satarter.	10
22	HCL INFINITI BL 1260 Processor - Intel Pentium D@ 3.0 GHz (Dual Core), 2 x 2 MB L2 Cache, 800 MHz FSB Chipset - intel 945 GZ Memory - 512 MB DDR RAM Hard Disk Drive - 80 GB SATA Hard Disk Monitor - 15" TFT Monitor Optical Drive- Combo Drive Display Controller - on board Keyboard - HCL Keyboard, Speakars, Mouse - HCL Optical Sscrolling Mouse with Mouse pad Slot:- 2 PCI, 1PCI Express, 1PCI Express X16, Ethernet : 10/100/1000 Mbps Ethernet, Cabinet :-Mini Tower MATX Card Cabinet.	47
23	Sahara Machine Model No. CJOO (1) DT 2306081968021, (2) DT 2306081968091 Intel P4.2.66 GHZ Mother Board 256 MB DDR / 80GB Satal 52X CD Writer 1.44 FDD / 15" SVGA Optical Mouse / Key Board 15" 605NLDA001650,	02
24	IBM Desktop PC model 921512Q-E50 P4: 2.66 GHZ, 64 Bit Processor 256 MB DDR RAM, 80 GB HDD, 7200 RPM, 52 X CD ROM, 1.44 MB FDD, 10/100 NIC, USB 2.0, 15" CRT Monitor, Keyboard, Optical Mouse , ATX Cabinet with SMPS Sr.No. L9B1523 & 15" CRT No: M9CSCAO64634	01
25	IBM Desktop PC model 921512Q-E50 P4: 2.66 GHZ, 64 Bit Processor 256 MB DDR RAM, 80 GB HDD, 7200 RPM, 52 X CD ROM, 1.44 MB FDD, 10/100 NIC, USB 2.0, 15" CRT Monitor, Keyboard, Optical Mouse , ATX Cabinet with SMPS Sr.No. L9C9056 & 15" CRT No: V285438	01

26	DESKTOP : IBM P4-2.66 GHZ, 64 Bit Processor, 915 GV M/board, 256 Mb DDR. 7200 RPM, 52 x CD, 1.44 FDD, 10/100 mbps NIC USB 2.0, 15" CRT SVGA, Optical Mouse, Key board	38
27	IBM Server 3100 M4 MNO25821KA, SN.NO.06EANDB, CPU 3100M4 3.10GHZ/DVD RW TFT 18.5 INCHLENOVE H-FOR SERVER / OS-DOS	01
28	SERVER :Processor Xeon E5620, Mother Board Intel 5520, 1000 GB HDD Seagate, 20" Dell TFT Widescreen, 8GB RAM, DVD RW LG Black / White, Key board Logitech Optical Black Bundle, ATX Cabinate, Computer Accessories, SMPS	01
29	SERVER :IBM x 100 Server, P4 3.0 GHZ, 1 Mb L2, 800 MHZ FSB, S12 MB DDR 400 MHZ, 80GB SATA, CD, 1.44 FDD, 2PCI, 1 Serial, 15" CRT SVGA. 10/100 LAN, Keyboard, Scroll Mouse.	01
30	SERVER : IBM Server X225-Xeon 2.8 GH2 Dual cap. 512 MB ODR RAM / Dual U320 Controllers 2x36 GB HDD/1.44 MB FDD/ 14" Colour Monitor Keyboard / Mouse / Tower Cabinet with SMPS IBM	02
	Total	**461**

- **Computer-student ratio**

  Computer Student ratio is: 1:4 for college.

  1:1 for laboratory

- **Stand alone facility**

  All systems are stand alone

- **LAN facility**

- ➢ All the computers are connected with LAN by 10/100 mbps connectivity.
- ➢ Remote Server: **-** In Computer Center Client-Server Architecture is used.
- ➢ Cabled Network: Optical Fiber cable (OFC) is used for Internet connection.

- **Wi-Fi facility**

  Entire campus is provided with Wi-Fi Facility with 5 access points.

- **Licensed software**

Table 4.3.1(b) Details of Licensed software

Sr. No.	Name of Software
	Application Software
1	Borland Turbo Suit with C/C++& Tutor
2	Borland Turbo Assembler
3	Visual Prolog
4	Oracle 9i Std. Edition 10 User Pack
5	Norton 2005 Desktop Edition
6	Norton Client Security Edition 5 User Pack
7	MS-Office 2003 ,2013

8	Office Media
09	Soul Software for University Library
10	Macromedia Studio 8.0 Consist Flash Pro, Dream Weaver Free hand, Fireworks
11	IBM National Suite Enterprises, IBM National Software Architect, IBM National Seed Program –RSA.
12	English Lab, Career Lab, Aptitude Lab and Teacher console.
13	Engineering simulation and Scripting system product code IFRDA/201 (Base module) 1. NN, Regression, Statistical mining and Data ware housing. 2. The 3-D module video
14	Quick Heal Total Security
15	Biometrics Software for Admin Department
16	Bar coding Software for library
17	Tally 9.0 for Account Section
18	Matlab 6.4 for EXTC
19	Altera VHDL Quaratuls – II
20	Multisin for EXTC
21	Microwind for EXTC
22	Shabdkosh Software
23	Antivirus Quick Heal Total Security 25users
24	Autodesk Academic Resource Centre (AICTE)
System Software	
1	Windows 2003 Std Server
2	Windows XP Professional
3	Windows server 2008 R2 Std
4	Windows 98
5	Linux (Red hat 5.0)
6	Vista Starter
7	Windows 7 Starter 32 bit
8	Windows 8.1 Enterprises
9	Windows Server 2012
10	Windows 7 Professional
11	Windows 7 Enterpries
12	Windows 8 Enterprises
13	Windows 8 Professional
14	Windows 8.1 Professional
15	Windows Server 2012
16	Windows Server Enterprises 2008
17	Windows Server 2012 essential
18	Windows Small Business Server Essential 2011
19	Windows Vista Business
20	Windows Vista Enterpries
21	Ms Windows Sever Std All Ling Lic/SA Pack OLV2 ProC

22	MS Desktop Edu All Lacience Lic/SA Pack OLV
23	1.MS DesktopEdu All Lng Lic./SA Pach OLV 2. MS Windows Server Std All Lng Lic/SA Pack OLV 2 Proc
24	MS Windows SL 8.1 Get Genuine MOLP NL AE
25	1.MS DesktopEdu All Lng Lic./SA Pach OLV 2. MS Windows Server Std All Lng Lic/SA Pack OLV 2 Proc
26	MS Windows SL 8.1 Get Genuine MOLP NL AE
27	MS Windows SL 8.1 Get Genuine MOLP NL AE

* Number of nodes/computers with internet facility

Separate high speed Internet facility 50 mbps is provided on all 461 computers.

- **Any Other:**

  1) **Virtual Classroom setup**: One virtual Learning facility is available in the seminar hall of the institution
  2) **Web Server:** For getting solar data prepared our own web server (http:/www. hvpmsolar.info)
  3) **SMS message System:** SMS message System facility is for sending SMS to student
  4) **SETU (Student E-Tech Unit)**: Single window Program. A student who will come for admission will be given form for his total information, then he will sit with data entry operator, then data entry operator will fill his form in computer. At the same time his certificate will be Photostat & Scanned. His photo will be taken by Web Camera. Then he will readily get file with all his documents from our staff. All the preliminary processes of Photostat & Data entry etc. are to prepare file. Then he will have to go to Admission Counter , where his documents will be checked with original documents & if found OK he will have to pay required fees then after showing receipt he will be given **I Card** immediately . All process will be completed within 10 to 15 minutes. The main aim to introduce this program is avoid hassle that students generally face. Hence, this facilitates a single window program & simplifies the admission process. Secondly as all the data of student collected by SETU is forwarded to Office for further process. This type of Admission Program is nowhere in Amravati District at Present.

4.3.2 Detail on the computer and internet facility made available to the faculty and students on the campus and off-campus?

College has so many numbers of computers systems which are available in all the departments for faculty & students on the campus. College has two High speed internet facilities of 10 mbps & one 50 mbps broad band connection on Optical fiber cable (OFC). All computer & internet facility are without any charge to faculty & students. The principal & Director are given the facilities off the campus.

4.3.3 What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?

Strategies:-

1) To enhance access & capacity of IT infrastructure to the faculty & students.
2) Continually update computer configuration & technology as per advancement in the field.

Plan:-

1) To purchase & procure 10% of latest advance computing system under modernization & removal of obsolesce.
2) To provide multimedia educational infrastructure like LCD projector & digital class room every department.
3) To provide high speed internet connectivity to academic areas (Class room & laboratories) to adopt advanced teaching learning process.

4.3.4 Provide details on the provision made in the annual budget for procurement, up gradation, deployment and maintenance of the computers and their accessories in the institution (Year wise for last four years)

Table 4.3.4: Details of the provision made in the annual budget and its utilization in lacs

Year	2015-16		2014-15		2013-14		2012-13	
	Budget	**Utilize-tion**	**Budget**	**Utilize-tion**	**Budget**	**Utilize-tion**	**Budget**	**Utilize-tion**
Procurement	20.00	17.30	48.00	12.42	24.00	32.06	20.00	18.67
Up gradation	1.4	1.4	2.0	2.0	0.9	0.9	1.60	1.60
Deployment	0.60	0.60	0.70	0.70	0.4	0.4	1.20	1.20
Maintenance	1.6	1.6	1.5	1.5	1.1	1.1	1.3	1.3

4.3.5 **How does the institution facilitate extensive use of ICT resources including development and use of computer-aided teaching/ learning materials by its staff and students?**

Facilitation of extensive use of ICT resources:

1) The majority of courses of study are ICT itself.

2) Classrooms are provided with LCD projector.

3) Availability of computer systems in the ratio of 1:4 (Computer: students)

4) Availability of high speed internet connectivity ,wi-fi connectivity

5) Conduct of training program, workshops & competition on use of ICT for teaching-learning.

6) Implementation of ICT teaching-learning methodologies like flipped learning , Hackathon , virtual class rooms.

4.3.6 **Elaborate giving suitable examples on how the learning activities and technologies deployed (access to on-line teaching - learning resources, independent learning, ICT enabled classrooms/learning spaces etc.) by the institution place the student at the centre of teaching-learning process and render the role of a facilitator for the teacher.**

Table 4.3.6 Details of employment of ICT resources

Activity	2015-16	2014-15	2013-14	2012-13
Virtual session/ Skype	02	03	01	01
NPTEL	125	120	110	100

4.3.7 **Does the Institution avail of the National Knowledge Network connectivity directly or through the affiliating university? If so, what are the services availed of?**

Yes, the institute avail National Knowledge Network connectivity directly by using Dell Net, National Digital Library (NDL). Institute avail two 10mbps VPN connection provided by MHRD under NMEICT project.

4.4   Maintenance of Infrastructure and Facilities

4.4.1   How does the institution ensure optimal allocation and utilization of the available financial resources for maintenance and upkeep of the following facilities (substantiate your statements by providing details of budget allocated during last four years)?

Table 4.4.1 Details of Budget allocation & Utilization for maintenance of Campus facilities

Year	Budget (Rs.in Lacs)	Items				
		Building	Furniture	Equipment	Computers	Any Other
2015-16	Allocation	43.00	02.75	41.50	12.00	05.00
	Utilization	42.21	02.44	40.94	11.09	04.42
2014-15	Allocation	41.00	07.00	16.00	13.00	06.00
	utilization	40.11	06.40	17.86	12.42	05.02
2013-14	Allocation	37.00	09.50	14.00	31.00	0.5
	Utilization	36.57	08.94	13.46	30.14	04.12
2012-13	Allocation	35.00	13.00	07.00	08.00	03.00
	Utilization	34.59	12.16	07.87	18.07	02.75

4.4.2   What are the institutional mechanisms for maintenance and upkeep of the infrastructure, facilities and equipment of the college?

Separate departments are available for maintaining the following:

Mechanisms

- Maintenance team Asst. Workshop Supr., Technical team of Electrician, Carpenter, Plumber, Civil, Meson
- A team of Supporting staff of Labs consisting of Technical asst., Skilled Asstt., Hardware Maintenance Engg.
- Outsourcing of Major Maintenance

Strategy

- Preventive Maintenance of Electrical Generator & cleaning of terrace before monsoon
- Preventive Maintenance of Machine and computers
- Use of Antivirus for Computers
- Inspection for earthing and Leakage of current
- Charging of batteries of Invertors

Breakdown Maintenance

- Generally outsource
- Preventive Maintenance of Generator
- Cleaning of Solar panel

4.4.3 **How and with what frequency does the institute take up calibration and other precision measures for the equipments/instruments?**

The college has the courses of Computer Science & Engineering, Information Technology& Electronics & Telecommunication Engineering mainly. The course of Mechanical Engineering is started recently. In this view the following activities are done for calibration and other precision measures

- Formatting of Computer system regularly.
- Updating of Computer System by replacement.
- Mechanical Engg. Equipments & Instruments are recently procured, hence are calibrated at the time installation.
- The course of MBA has no major Equipment
- Before the start of every session all the CROs ,Function Generators , training kits & measuring devices are tested & calibrated
- Replacement of CROs by procuring with new one
- Solar generation unit is regularly calibrated and updated
- Power generation is also regularly calibrated and updated

4.4.4 **What are the major steps taken for location, upkeep and maintenance of sensitive equipment (voltage fluctuations, constant water supply etc.)?**

The major steps taken for location, upkeep and maintenance of sensitive equipment

- Sensitive equipments like computers servers are kept in separate AC cabin provided with power back up, voltage stabilizer system.
- Installation of RO plant for drinking water near overhead tank on the top floor with constant water supply.
- Solar power plant is installed on roof top to receive constant solar radiation without shadow.
- Fire extinguisher is providing near sensitive equipments.
- Regular preventive maintained of servers, power generators, solar power plant & RO plant.

CRITERION-V

STUDENT SUPPORT AND PROGRESSION

5.1 Student Mentoring and Support

5.1.1 Does the institution publish its updated prospectus/handbook annually? If 'yes', what is the information provided to students through these documents and how does the institution ensure its commitment and accountability?

Yes, every year Institute publishes Information brochure, Placement brochure and Students diary and it is given to every student at the start of the session.

Table 5.1.1: Details of prospectus

Sr. No.	Prospectus	Information provided to students
1.	Information Brochure	• Message from Director and Principal • Mission-Vision Statements, Goals and Objectives • Details of fee structure • Eligibility criteria for admission • Courses offered and intake • Information of each department • List of Faculty with qualification and Experience • Placement details • Awards and Achievements of students in various activities • Details of facilities like Library, Hostel, Computer centre, sports and games • Glimpses of annual gathering • Activities of students in NSS camp • Information related visits of Eminent Personalities and value added amenities of the Institute • Rules for Discipline like anti ragging
2.	Placement Brochure	• Placement brochure starts with Vision-mission, Objectives and goals of the institute • Information related to thrust Areas • Information related to team leaders of institute • Details of innovative projects and activities of Institute • Vision-mission of T&P cell • information related T&P Cell, activities conducted by T&P Cell and staff co-ordinators • Details of skill sharpening school in association with

		• alumni association of skill sharpening school • Details of activities under of Beyond syllabus training program (Core Technical Areas) • Students profile under core competency area • Details of value added amenities
3.	Students Diary	• Preamble of Constitution • Historical glory of HVPM (Trust) • Vision, Mission, Goal and Objective statements of Institute • Details of Desired outcomes of education and key stage outcomes of education • Details of Governing body and various committees of Institute • List of various committees with convener and members • Details of courses and sanctioned intake • List of department wise teaching faculty, Administrative and office staff, Library and technical staff and resource persons from industry with contact number • List of emergency situations which may occur and details of in-charge and their telephone numbers to contact for the same • List of important websites • Academic calendar of upcoming sessions • Code of conduct for students • University Ordinances • Details of Internal assessment marks • Formats of applications and of various affidavit for students • Details of various types of scholarships and financial assistance schemes • Information to the students about bank details • Planned schedule activities of skill sharpening school • Information of library

Various Portfolios are structured by the Institute and by department. In-charges and members of these various portfolios are bound intellectually to a course for completion and maintenance of allotted work. Feedback is taken from students in every semester as well as parents meet is conducted every year to ensure commitment and accountability of the Institute. On the basis of feedback given by students and parents, improvement has been made in the facilities.

5.1.2 Specify the type, number and amount of institutional scholarships/ freeships given to the students during the last four years and whether the financial aid was available and disbursed on time?

Every year Institute gives institutional reward amount to toppers of all departments of final year as per the policies finalized by the management to award the meritorious student.

Type: University Merit rank and color coat holders

Table 5.1.2(a): University Merit rank and color coat holders
Year 2016-17

Sr. No.	Name of the Student	Branch/Year	Merit Rank	Amount (Rs.)
Avishkar (Sports) (Year 2017)				
1.	Mr. Ram Jagtap	Final Year ENTC	Colour coat in ball badminton	3,000/-
2.	Mr. Nikhil Pande	First year CSE	Colour coat in badminton	3,000/-
University Rank Holder (Year 2016)				
1.	Ms. Neharika Sharma	MBA	6th merit in University	2,000/-
2.	Ms. Monika Jaiswal	MBA	3rd merit in University	2,000/-
3.	Ms. Huda Anam Abdul Masdjid	Final Year ENTC	6th merit in University	2,000/-
4.	Ms.Trupti Anant Bidwai	Final Year ENTC	7th merit in University	2,000/-
5.	Ms. Sapna Ashok Churare	Final Year CMPS	1ST merit in University	30,000/-
6.	Ms. Shiba Tabassum Sheikh Wasir	Final Year CMPS	4th merit in University	2,000/-
7.	Ms.Madhurika Shrikant Pendke	Final Year IT	7th merit in University	2,000/-

Year 2015-16

Sr.No.	Name of the Student	Branch/Year	Merit Rank	Amount (Rs.)
University Rank Holder (Year 2015)				
1	Ms. Anupriya Mishra	EXTC/ Final Year	2nd in University	2,000/-
2	Mr. Abhijeet Sarkate	EXTC/ Final Year	9th in University	2,000/-
3	Mr. Atul Dhok	EXTC/ Final Year	10th in University	2,000/-
4	Ms. Sanjana Dhanorkar	CMPS/ Final Year	2nd in University	2,000/-
5	Ms. Uroojssama Abdul Wahed	CMPS/ Final Year	2nd in University	2,000/-

6	Ms. Ashna Rukhsar	CMPS/ Final Year	5th in University	2,000/-
7	Ms. Poonam Sharma	IT/ Final Year	2nd in University	2,000/-
Avishkar sports(Year 2016)				
1	Mr. Roshan Kalinkar	EXTC/ Final Year	Colour Coat in Basket Ball	3,000/-
2	Ms. Pratiksha Chavan	EXTC/ Final Year	Colour Coat in Judo	3,000/-
Avishkar (Year 2016)				
4	Mr. Sumit Dhonde	EXTC/ Final Year	Colour Coat in students category	3,000/-

Year 2014-15

Sr. No.	Name of the Student	Branch/Year	Merit Rank	Amount (Rs.)
University Rank Holder (Year 2014)				
1	Miss. Zaibunnisa Sheikh	EXTC/Final yr.	1st in University	30,000/-
2	Miss. Madhavi Mende	EXTC/Final yr.	7th in University	2,000/-
3	Miss.Monali Wakode	MBA/Final yr.	10th in University	2,000/-
4	Miss.Priyanka Pursani	CMPS/ME/Final yr.	2nd in University	2,000/-
Avishkar Sports (Year 2015)				
1	Miss. Snehal Gupta	EXTC/Final yr.	Colour coat in Rope Mallkhamb	3,000/-
2	Miss.SagarPohare	EXTC/Final yr.	Colour coat in Basket-Ball	3,000/-
3	Mr. Ram Jagtap	EXTC/Third yr.	Colour coat in Ball Badminton	3,000/-
4	Mr. Gaurav Dharmale	CMPS/ Third yr.	Colour coat in Kho-Kho	3,000/-
5	Miss. Pratiksha Chavan	EXTC/Third yr.	Colour coat in Judo	3,000/-

Year 2013-14

Sr. No.	Name of the Student	Branch/Year	Merit Rank	Amount (Rs.)
University Rank Holder (Year 2013)				
1	Miss Pooja S. Dhole	CMPS/Final yr.	1st in University	30,000/-
2	Mr.Vaibhav N. Kalhane	EXTC/Final yr.	1st in University	30,000/-
3	Mr.YukeshM.Kapgate	EXTC/Final yr.	2nd in University	2,000/-
4	Miss.Sapna Gawande	IT/Final yr.	3rd in University	2,000/-
5	Miss.Sneha Kalbande	IT/Final yr.	6th in University	2,000/-
6	Miss.Zaveriya Sayed	IT/Final yr.	7th in University	2,000/-
7	Miss.MohiniP.Kak	MBA/Final yr.	8th in University	2,000/-
8	Miss.Yogita S. Kanugo	MBA/Final yr.	8th in University	2,000/-

			Avishkar sports(Year 2014)	
1	Miss. Snehal Gupta	EXTC/Third yr.	Colour coat in Mallakhamb	3,000/-
2	Miss.SagarPohare	EXTC/Third yr.	Colour coat in Basket-Ball	3,000/-

Table 5.1.2(b): Details of Freeship (Fee Concessions)

Year	No of Students	Amount(Rs.)
2016-17	29	12,26,386/-
2015-16	32	9,56,530/-
2014-15	11	2,70,985/-
2013-14	1	18,000/-

Table 5.1.2(c): Details of Support under Earn while Learn Scheme

Year	Nos. of Students	Amount(Rs.)
2015-16	03	19,865/-
2014-15	07	19,756/-
2013-14	07	18,337/-
2012-13	10	11,694/-

Table 5.1.2(d): Details of Support by institution to avail financial aid from external private trust

Year	No. of Students
2016-17	12
2015-16	23
2014-15	10
2013-14	07
2012-13	01

5.1.3 What percentage of students receives financial assistance from state government, central government and other national agencies?

Institute has a separate cell for students. This cell provides time to time information and any updates regarding scholarship of students through college website and notice boards. The financial assistance includes backward class freeships, backward class scholarship, physically handicap scholarship, EBC freeships and minority scholarship.

Year wise percentage of students received scholarship from state government, central government and other national agencies

Table 5.3.3: Scholarship from state government, central government and other national agencies

Sr. No	Academic year	Total no. of students	No. of students received Scholarship	% Students received Scholarship
1	2015-2016	1248	930	74.51
2	2014-2015	1190	866	72.77
3	2013-2014	1214	866	71.33
4	2012-2013	1153	823	71.37
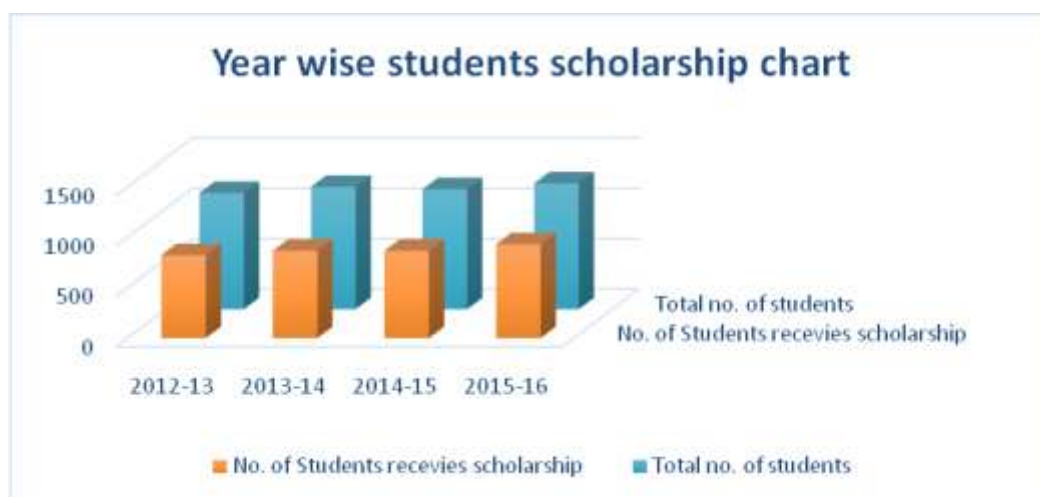
Fig. 5.1.3: Year wise students scholarship chart

5.1.4 What are the specific support services/facilities available for?

- Students from SC/ST, OBC and economically weaker sections

- Students with physical disabilities

- Overseas students

- Students to participate in various competitions/National and International

- Medical assistance to students: health centre, health insurance etc.

- Organizing coaching classes for competitive exams

- Skill development(spoken English, computer literacy, etc.,)

- Support for "slow learners"

- Exposures of students to other institution of h i g h e r learning/corporate/business house etc.

- Publication of student magazines

    1. Reduce Eligibility criteria for admission as per Govt. rules

2. Help to seek assistance under various state / central govt. Schemes

3. Separate cell to address grievances (Grievance Redressal cell for SC & ST)

4. Book Bank Schemes of Social welfare dept.

5. Ensure no discrimination

6. Adequate number of faculty and staff from these categories are appointed
The institute provides facilities to SC/ST, OBC students for government scholarships. Special Student section is working for students which help them to fill the forms and solve other queries related to scholarship. Book bank facility is also provided to students by Library department for SC/ST, OBC students.

Year wise and category wise details of scholarship are mention below:

Table 5.1.4(a): Year wise and category wise details of scholarship
A) Year 2015-16

Sr. no	Scholarship Category	No. of students benefited	Total no of students benefited
1	SC	137	
2	ST	NIL	
3	VJ/NT	66	
4	SBC	21	870
5	OBC	526	
6	OPEN (Minority/EBC)	120	
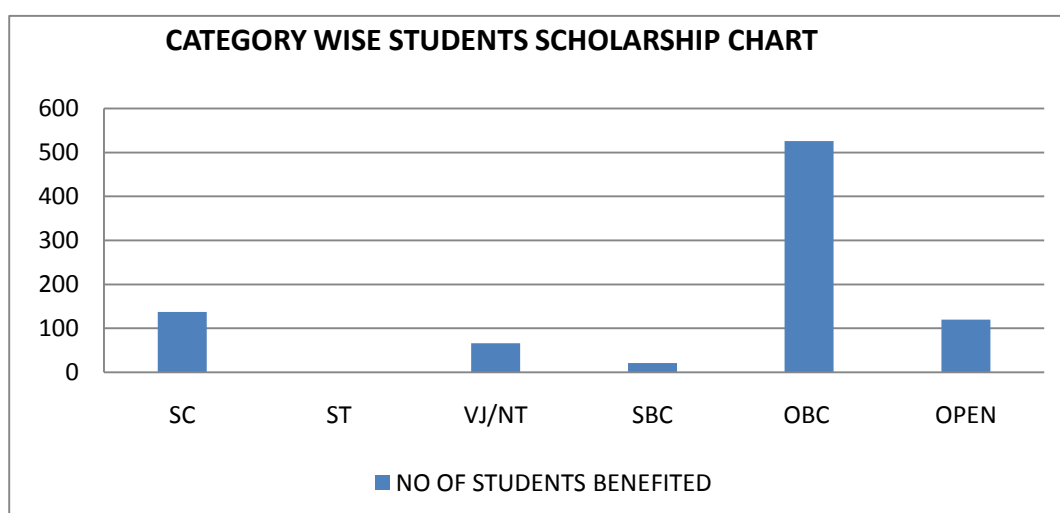
Fig. 5.1.4(a): Category wise students scholarship chart for year 2015-16

B) Year 2014-15

Sr. no	Scholarship Category	No. of students benefited	Total no of students benefited
1	SC	127	
2	ST	1	
3	VJ/NT	13	
4	SBC	22	
5	OBC	503	805
6	OPEN (Minority/EBC)	139	
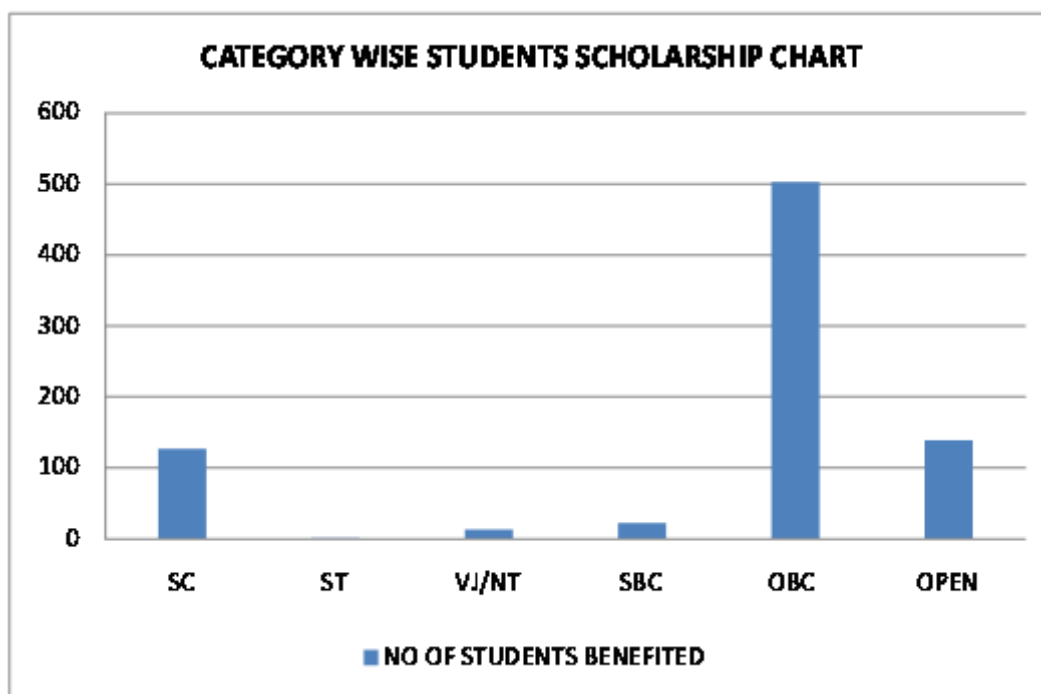
Fig. 5.1.4(b): Category wise students scholarship chart for year 2014-15

C) Year 2013-14

Sr. no	Scholarship Category	No. of students benefited	Total no of students benefited
1	SC	133	
2	ST	3	
3	VJ/NT	51	
4	SBC	27	
5	OBC	484	840
6	OPEN (Minority / EBC)	142	

CATEGORY WISE STUDENTS SCHOLARSHIP CHART
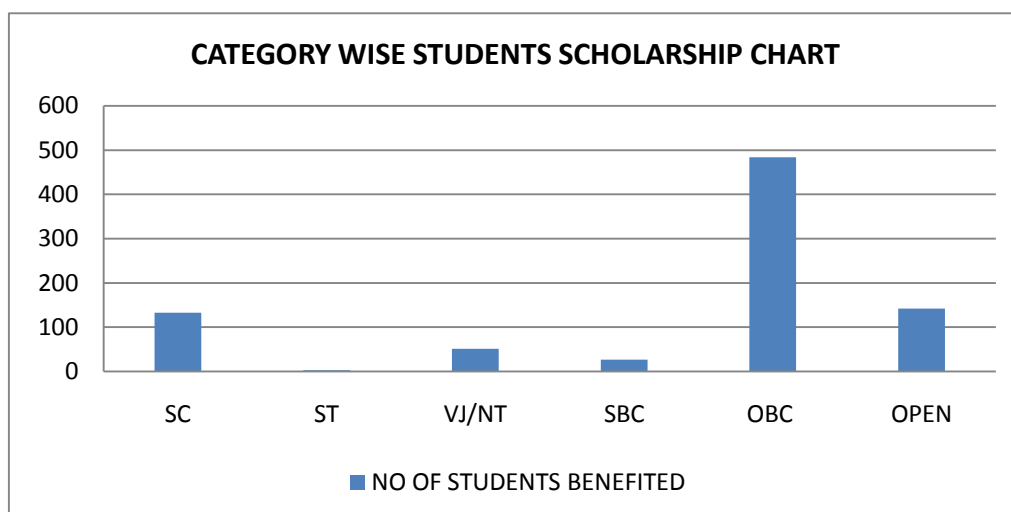
Fig. 5.1.4(c): Category wise students scholarship chart for year 2013-14

D) Year 2012-13

Sr. No	Scholarship Category	No. of students benefited	Total no of students benefited
1	SC	139	
2	ST	4	
3	VJ/NT	67	
4	SBC	26	
5	OBC	439	801
6	OPEN (MINORITY/EBC)	126	

CATEGORY WISE STUDENTS SCHOLARSHIP CHART
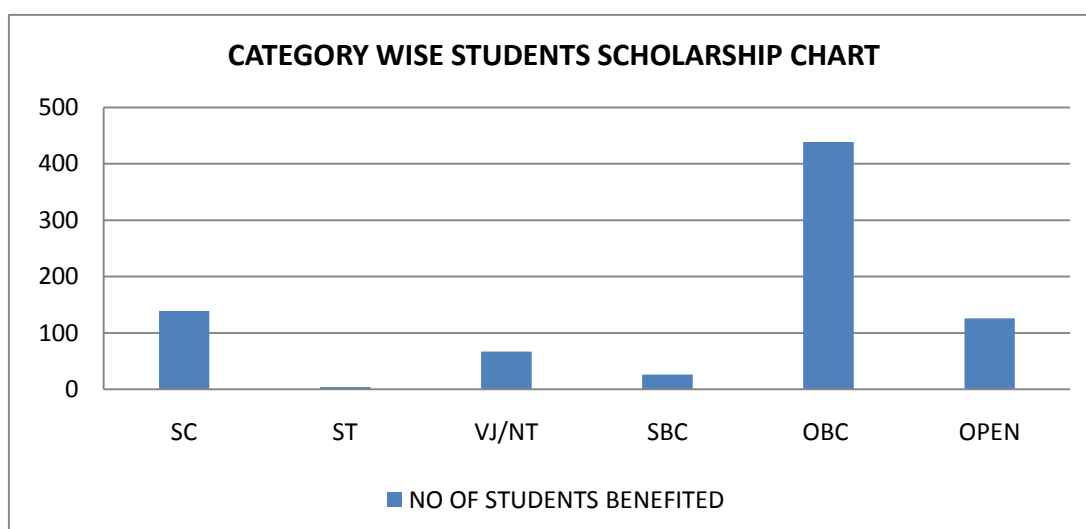
Fig. 5.1.4(d): Category wise students scholarship chart for year 2012-13

- **Students with physical disabilities**
  - Physical support and preferential treatment is given.
  - Special Toilet is available on Ground Floor
  - Academic, Admin. & Library facilities are made available Ground Floor
  - Separate seating arrangement is provided with permissible aid, extra time as per rule is provided foe Examination.
  - Ramp is provided for easy entrance.

- **Overseas students**

  Institute doesn't have any overseas student.

- **Students to participate in various competitions/National and International**
  - The Vision, Mission and objectives of the institutions emphasize on students overall development and participations in national /international events.
  - Provision of world class facilities like Swimming pool , Gymnasium, Sports & games with Coaches & Mentors with the support of Trust
  - Financial Support/ Concession for participation for event
  - Making available ICT Infrastructure, Labs, Equipments beyond academic hours
  - Bringing subject expert, industry expert virtually and physical to interact with students for motivation , training and mentoring
  - MOU with national /international institutions to facilitate participations
  - Institute takes extra classes and rearrange college exam for the students who participate in sport competition and technical event at various college.
  - Each department has student's forum such as UTKARSH forum of CSE , ITSA forum of IT and FEATS forum of EXTC, under these forum various activities are organized like workshop on recent trends, project competitions, Captain C, Poster Competitions, Debate competition etc.

- **Medical Assistance to Student**
  - Medical test & Physical fitness tests are done for students
  - Coverage under accidental Insurance
  - Availability of Ambulance, Sick room, panel of doctor & First aid
  - Ayurvedic medical college & Hospital of trust
  - Health club with modern physical fitness

- ▪ Naturopathy & Yoga center
- ▪ Display of Preventive & curative measures in case of Heat stroke and Bone fracture, snake bites
- ▪ Office bearers of trust are medical practitioners & help, support and assistance is readily available in their hospitals
- ▪ Institute being located in the heart of the city has easy and early access to hospitals.

- **Organizing coaching classes for competitive exams:**
  - ▪ Development of separate section of study material of Competitive examination in College Library and Department
  - ▪ Conduct of Coaching classes for GATE examination by expert, professional entity (Outsource)
  - ▪ Guidance by College faculties for competitive examinations like GRE, TOFEL, CAT, and others
  - ▪ Special coaching classes for aptitude, GD ,Technical and Personal Interview
  - ▪ Conduct of Mock test & Mock interviews

- **Skill development (spoken English, computer literacy, etc.):**
  - ▪ Well-structured skilled development programs are develop and implemented for Communication Skill
  - ▪ Aptitude, Behavioral and soft skill
  - ▪ Identified domain wise technical skills
  - ▪ Provision of language lab
  - ▪ Conduct of presentation sessions, Mock placement drives to access acquire skill
  - ▪ Provisions of learning foreign languages like Japanese , French
  - ▪ Special programme to learn basic, and applied computing
  - ▪ Availability of full time , adjunct faculty and visiting faculty for teaching the subject like Skills development

  To develop the technical skills of students, different events like Project competition, Captain 'C', workshops on recent treads has been organized by college. The Core Technical Area (CTA) is introduced under which Foundation course, Advance course and Summer Internship Program (SIP) is done.

The table below summarizes the skill development workshops arranged in last four years.

Table 5.1.4(b): Details of skill development workshop

Year	Arranged By	Workshop	Participants	No. of student participated
2016-17	CSE	IOT With Android	CSE	30
	MECH	Microsoft word, excel, networking	MECH	17
	EXTC	VLSI Introduction	EXTC	250
		Embedded and IOT	EXTC	250
	MBA	Microsoft word, excel	MBA	60
		Soft Skill	MBA	60
		Sales & Marketing in Beverage industry –A global outlook	MBA	50
2015-16	CSE	Computer Fundamentals	CSE IT	120
		Ek Nayi Khoj	CSE IT EXTC	200
		PHP & JOOMLA	CSE IT EXTC	150
		Javascript	CSE	35
		Cyber security and network security	CSE IT	100
		How to prepare for Gate exam	CSE	110
		Workshop by Santosh Shelokar	CSE IT	60
		Workshop by Urmila Shrawankar	CSE	110
		Microsoft Azure	CSE	30
	IT	Big Data and hadoop	IT	62
		Network security (cyber security)	IT CSE	105
		Workshop on ASP .NET	IT	62
	EXTC	One day workshop on trends in VLSI	EXTC	300
		Two day workshop on Quad copter conducted by Robo Species technologies pvt. Ltd.	EXTC	150
		Undergraduate engineering programs	EXTC, CSE, IT	360

		Workshop on "Embedded Systems & Internet of Thing	EXTC	240
	Mechanical	Computer literacy by Sameer Joshi	MECH	40
	MBA	Entrepreneurship Awareness Camp (EAC)	MBA, Mechanical	74
		Career in Finance	MBA	
		Mergers & Acquisition		60
2014-15	CSE	Mission on Mars	CSE IT EXTC	400
		Network & Information security	CSE IT EXTC	100
		PHP With My Sql	CSE IT	92
		Green Technology	CSE, IT, EXTC	100
		How to be ready for campus placements	CSE	110
		How to prepare for Gate exam	CSE	120
		How to write technical paper	CSE	105
	EXTC	Workshop on" PCB Design"	EXTC,CSE, IT	150
		Workshop on Robotics"	EXTC,CSE, IT	150
	MBA	Expert Business talk on Current industry outlook-C.Kajwadkar	BBA,BE,MBA	400
		Workshop on MSWord /Excel/PowerPoint by IIJT Professional	MBA	100
2013-14	CSE	Networking	CSE IT EXTC	110
		IBM Academic Carrier	CSE	40
		C++ Programming Training by SEED Infotech	CSE IT	40
	EXTC	Nature and effect of pollution	EXTC	70
		Vidarbha level debate competition	EXTC,CSE , IT	35
		Guest lecture on 'Responsibility before and post marriage.	EXTC	230
		Guest lecture on 'professionalism for women.	EXTC	123

		Guest lecture on "Personality Development And Grooming for Girls".	EXTC	117
		Workshop on" Advanced Intelligence Robotics"	EXTC, CSE, IT	200
		Ten days workshop on Embedded System.	EXTC	51
		Teachers day and engineers day	EXTC	200
		Celebration of woman's day	EXTC	120
	MBA	Workshop on MSWord/Excel/PowerPoint	MBA	120
		Workshop on career in banking by Shivani Dani	MBA	120
		Banking as a career by Mr Rishi Chourasia (Director & Founder of Management Vikalp	MBA	120
2012-13	EXTC	Ten days workshop on Embedded System.	EXTC	51
	MBA	Guest lecture by Mr Joshi in Career in Insurance	MBA	120
		Investor awareness programme by ICICI bank	MBA	120

- **Support for slow learners**
  - Scheme of Know your students
  - Maintenance of Academic cards
  - Identification of slow learners students
  - Remedial Measures for slow learners students
  - Mentorship
  - Involvement of parents
  - Provision of old question paper sets with solutions , additional reading materials through college library & made available in E- repository

Institute maintains student performance card throughout all academic years in college. This includes academic as well as extra-curricular and co-curricular activities of student and from this slow learners and less active students are easily identified by class teacher and subject teacher. Remedial classes are arranged for slow learners by respective subject teacher. Mentor and other faculties motivate less active students for their active participation. Remedial test are conducted by subject teacher in tutorial or in extra class for students.

- **Exposures of students to other institute of higher learning/corporate/ Business house etc.**

  Exposures of students to other institute of higher learning/corporate/ Business house during last four year

Table 5.1.4(c): Exposures of students to other institute higher learning/corporate/ Business house

Events	Nos.
Invitation of Statesman for events	09
Industrial Visits, tours	25
Invitation of Scientist, Academician/ Resource person	33
Industry Experts for Seminar, Conferences	22
Virtual session	07
Alumni	04
Industrial Training	35

- **Publication of Student Magazines**

  - Every year student's magazine is published with specific relevant theme for the year.

  - The magazine has consecutively won awards in university best magazine competitions

  - For the year 2015-16 college magazine secured First position and 2014-15 secured third position in the university.

Table 5.1.4(d): Details of Magazine

Year	Theme of College Magazine	Remark
2016-17	Self Governace to Good Governace	Under publication
2015-16	Technology & Social Change	First position
2014-15	Students' Aspirations	Third position
2013-14	Youth-Catalyst of Change	Appreciation
2012-13	Time To Respect Women	Appreciation

5.1.5 Describe the efforts made by the institution to facilitate entrepreneurial skills, among the students and the impact of the efforts.

Formation of Entrepreneurship Development Cell (EDC)

Table 5.1.5: Details of EDC

Efforts of The institution		
Activity	**Nos.**	**Impact**
Formation of EDC& training of faculty to effectively run EDC	03	Started EDC cell

Training to faculty for EDC	03	Awareness
Motivational speeches	01	2 students started business
Training Program for EDC	64	Awareness

5.1.6 Enumerate the policies and strategies of the institution which promote participation of students in extracurricular and co-curricular activities such as sports, games, Quiz competitions, debate and discussions, cultural activities etc.

*additional academic support, flexibility in examinations

*special dietary requirements, sports uniform and materials

*any other

Policies and strategies

- The college belongs to a trust which is dedicated for youth empowerment through Sports, games and other activity
- It has world class sports and game complex having facilities swimming pool, Gym, Indoor stadium , recognize center for Reselling, archery, Kho-kho
- College is situated in the same campus on a separate piece of land.
- With this background the college has strategy of overall development of students through participation in sports, games and cultural activities along with academics. And it is reflected very well in Goals & Objectives of the college.

The strategies employed by the college are:

- To encourage students by making available world class sports/game infrastructure of the world.
- To participate inter collegiate and intra collegiate tournaments, events, competition.
- To organize sports & cultural festival every year.
- To create activity club liked Daksh band to promote Music, Dazzler Group to promote Dancing.

- Few faculty and staff are selected for their excellence in the field of sports, games & yoga etc.

- Whenever possible flexibility in attendance, internal assessment & practical examination time table is provide to the students.

- To provide sports materials to promote participations to extend flexibility.

5.1.7 Enumerating on the support and guidance provided to the students in preparing for the competitive exams, give details on the number of students appeared and qualified in various competitive exams such as UGC-CSIR-NET,UGC-NET, SET, ATE/CAT/GRE/TOFEL/GMAT/ Central/State services, Defense, Civil Services, etc.

Table 5.1.7 List of Number of students who cleared competitive exams

Year	Name of Examination	No. of Student Qualified
2015-16	BANK recruitment	01
	GATE	03
	CAT/CET	10
2014-15	GATE	01
	FINANCIAL SECTOR	01
	CAT/CET	08
	FINANCIAL SECTOR	01
	GATE	03
	CAT/CET	10
2013-14	GATE	01
	CAT/CET	14
2012-13	GATE	02
	CAT/CET	08

5.1.8 What type of counseling services are made available to the student (Academic, personal, career, psycho-social etc.)

The following mechanism are provided for counseling services

- Students mentor scheme

- Professional councilor

- Special session for girl's counseling

- Career guidance workshops, seminars

- Value education programme

- Participative projects
- Yoga Practices

Academic: The students have been divided in group of 15-20 and a Mentor is allotted to them. The Student Committee (SRC) is established to solve student's academic problems. The mid-term and end term meeting in taken semester wise. The proper action is taken to solve academic problems of students. Extra classes and remedial classes are arranged for weaker students. The regular meeting is taken monthly. English communication training, Skill Sharpening School, Aptitude training programs are taken in college hours. Technical Sessions of core technical areas are arrange in the institute which make awareness of recent trends.

Personal: The group of girls is having female faculty mentor to share their personal problems. The faculty takes actions on student's problems. The hostel warden is appointed from faculty itself as a care taker for hostelries. The visiting faculty is appointed to motivate and develop the personality of students. Under Skill Sharpning School (SSS) different activities are conducted for enhancing student skills.

Career: Survey of students about their career option is carried out. Pre-training test is taken to elucidate student potential and aptitude for career accordingly career counseling and guidance is given to help students to overcome weaknesses. Support and training is also provided.

The English Communication Training, Soft Skill Training program are conducted by T&P cell for English and aptitude. The MOCK placement drive is arranged by TNP cell yearly. The students are made aware about the notification of different examinations and placement drives. The institute has started Core Technical Area (CTA) cell for training student and bridging the gap between university syllabus and industry requirement.

Psycho-social: The Women Grievance cells, Student redressal cell, Anti-Raging Committee are working to take care of students. Mentoring schemes are running in each department which guides, resolve problems of students. The class teacher/faculty members have friendly relationship with students and act as guardian. Workshop special session by professional, psychological expert,

interaction with real life heroes, visits to orphanages, old-age home and differently age - home to make aware about courageous life of distress/ disadvantage .Group of society. Exhibition of motivational movies are done. Awareness and Motivation for social activities like blood donation, NSS.

5.1.9 Does the institution have a structured mechanism for career guidance and placement of its students ?If 'yes', detail on the services provided to help students identify job opportunities and prepare themselves for interview and the percentage of students selected during campus interviews by different employers (list the employers and the programmes).

Yes, institute has structured mechanism for career guidance and placement of students that is training and placement cell.

Organization Structure of T & P Cell
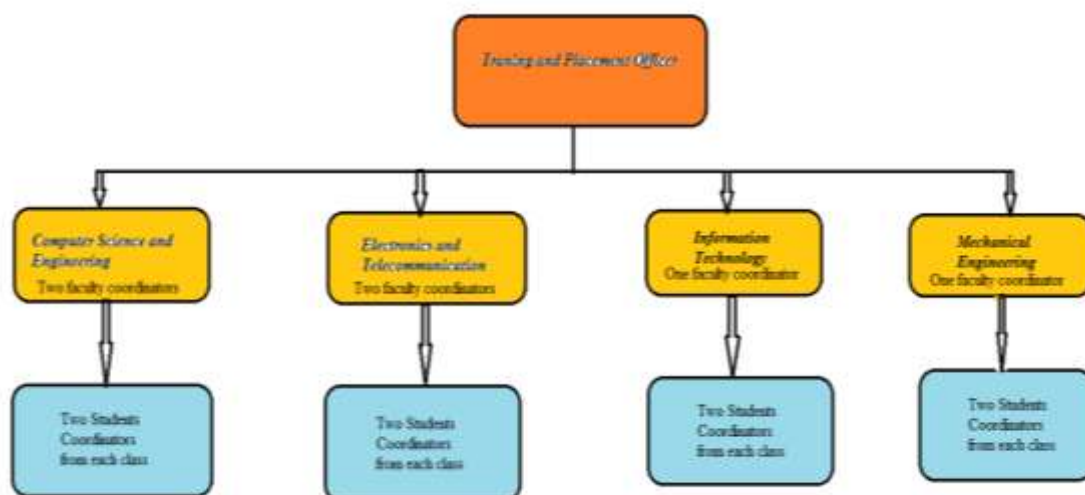
Fig. 5.1.9(a): Structure of Training Programme

Table 5.1.9(a) : Structure of Training Programme

Sr.No	Level	Type of Training
1.	At 2nd year (4th Sem)	Communication Skill
2.	At 3rd year (5th Sem)	Soft Skill
3.	At 3rd Year(6th Sem)	Aptitude and CTA (details given below)
4.	At Final Year(7th Sem)	CTA, Internship &Projects
5.	At Final Year (8th Sem)	Projects Continued
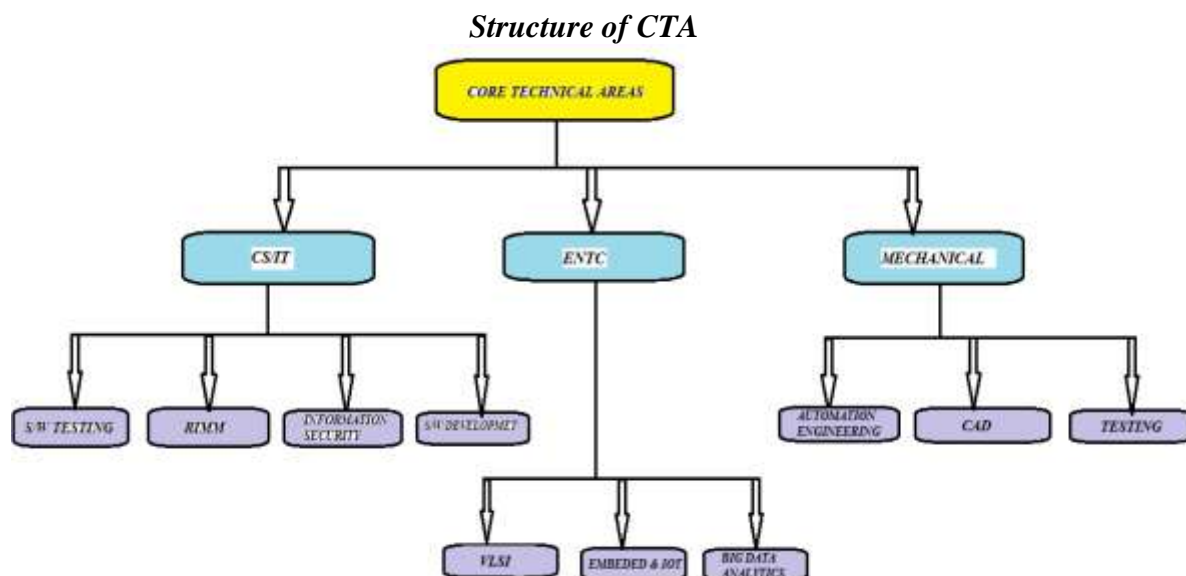
Structure of CTA

Fig. 5.1.9(b): Structure of core technical area (CTA)

T & P cell actively works for communication Skill training is given to students of fourth semester which improves English communication of students. Skill sharpening training is given to third year students which include soft skill training and aptitude training. Profile Awareness Program and Company Awareness Program is also arranged for final year students. MOCK placement drive is arranged for final year students in seventh semester which enriches student's skills. In final year students also appear for AMCAT test which gives opportunities of placement in IT industries. The placement drives has been conducted on campus/off campus for final year students. According to the performance of student GYRB (Green, Yellow, red, Black) Band is assigned to each student and training is given to students accordingly. The Institute has introduced core technical areas to bridge gap between industry and institute. The core technical areas for information technology include software testing, software development, information security, Remote infrastructure maintenance and management, networking. The core technical areas for electronics and telecommunications includes Embedded with IOT, MATLAB programming. The core technical areas for mechanical engineering includes Automation, engineering services (CAD), Testing. Under CTA different activities has been conducted like for third year student foundation course, for final year student Summer Internship Program and Advance course. The live interaction with

industry person has been done by Skype session n different recent trends.TNP of institute has online portal through which TNP member and students can communicate with each other. The camp has been arranged for issuing Passport and PAN *card*. The Alumni members also give guidance and information about recent treads to students.

We have courses of Computer Science Engineering, IT, Electronics & Tele Communication. Employers are common for all U.G. courses/ programme

Table 5.1.9(b): Students Campus Placement (UG)

Academic year	No. of student Appeared	No. of student placed	% of student selected
2015-16	254	62	24.41
2014-15	224	76	33.93
2013-14	216	48	22.22
2012-13	201	53	26.37

Table 5.1.9(c): Employers of UG and MBA

Sr. No	Name of Employer UG
1.	Amdocs, Pune
2.	persistent systems, Nagpur
3.	A.A.K.G Group PVT Ltd, Nagpur
4.	Smart Data Enterprises, Noida
5.	Paramatrix Pvt Ltd, Mumbai
6.	Accenture, Pune
7.	Accord Shine, Nagpur
8.	HCL Technologies Ltd (SLOCEM)
9.	Arvind Telecom Devision,Syntel, Pune
10.	SRS Infosystem Limited, Nagpur
11.	Brainstorm force
12.	Allerin, Mumbai
13.	Apex SoftCell (India) Pvt. Ltd., Mumbai
14.	Zensar Technology, Pune
15.	Paramatrix Pvt Ltd, Mumbai
16.	Syntel Ltd, Pune
17.	Euraka Forbes
18.	Genpact
19.	Cognizant Technology, Pune
20.	L&T Infotech
21.	Unitechnosys
22.	Tribro Softech Pvt Ltd, Hyderabad
23.	Tungsten Information India Pvt Ltd, Pune
24.	TCS
25.	Tech Mahindra

26.	Percept Web Solutions Pvt.Ltd, Nagpur
27.	KnowMax software Pvt Ltd. Nagpur
28.	persistent systems, Nagpur
29.	iGate, Mumbai
30.	Zensar Technology, Pune
31.	Hawlet-Packard Globalsoft Pvt.Ltd
32.	Cryptex Technologies Pvt.Ltd, Nagpur
33.	Grace Strategies Nagpur
34.	Syntel Ltd, Pune
35.	KPIT, Technology, Pune
36.	Syntego Global IT Systems Pvt Ltd, Pune
37.	Eternus Solutions,pvt.ltd, Pune
38.	CMS IT Services Pvt.Ltd, Mumbai
39.	RDP Telecom Services Pvt. Ltd. Delhi
40.	Tungsten Information India Pvt Ltd, Pune
41.	Financial Software System (FSS),
42.	Shriram Transport Finance Co. Ltd
43.	ETKIN InfoTech, Amravati
44.	Pompiee Technology, Mumbai
45.	VyClean Solutions, Nagpur
46.	HCL TSS
47.	Saransh Group
48.	Tristha Global Pvt. Ltd.
49.	Tech Mahindra, Pune
50.	Fendahl Technology, Nagpur
51.	Tudip Technology,Pune
52.	Epic Research Pvt. Ltd., Indore
53.	Pompiee Technology,Mumbai
54.	HORIZON TELECOM ,Surat
55.	Eternus Solutions,pvt.ltd, Pune
56.	Nitor Infotech, Pune
57.	Enable It Solutions, Nagpur
58.	Dhoot Transmission Pvt,Ltd, Aurangabad
59.	Great Place IT Services Nagpur
60.	Anushree Industries Pvt.Ltd, Pune

Table 5.1.9(d): Students Campus Placement data of MBA course

Academic year	% of student Placed
2015-16	74.19%
2014-15	80%
2013-14	57.14%
2012-13	34.75%

	Name of Employers of MBA
1.	3 Dimenssion
2.	Axis
3.	AAKG
4.	Shriram Finance
5.	Eclerx
6.	Cognizant
7.	Svatantra Microfin Pvt Ltd
8.	Airtel
9.	K136 (Japan Project)
10.	Syntel
11.	Daychi
12.	Master Software
13.	Just Dial
14.	Kent Ro
15.	Vodafone
16.	I-Base
17.	Lie Tele ventures
18.	HDFC Bank
19.	HDFC Securities
20.	NRHM
21.	Spandana Spoorty
22.	Bajaj Capital
23.	Jobs Square
24.	Vakranje Software
25.	Volkswagen
26.	JARO Education

5.1.10 Does the institution have a student grievance redressal cell? If yes, list (if any) the grievances reported and redressed during the last four years.

Yes, Institute has student grievances redressal cell. The structure is as given below

Table: 5.1.10(a): Grievance Redressal Committee

Sr. No.	Name of Faculty	Designation
1.	Mr. Yeshwant Padole	Coordinator of Committee
2.	Dr. Ranjit Keole	Member
3.	Mr. Vijay Agrawal	Member
4.	Mr.Yogesh Rochlani	Member
5.	Mr.Ritesh Anantwar	Member

Table: 5.1.10(b): Grievances reported and redressed during last 4 years

Sr. No	Grievances reported	Remark
	Academics	
1	Giving instalment for fee payment	Resolved
2	Change of Teacher	Resolved
3	Pursuing matter with university authority	Resolved
4	Proving better services	Resolved
5	Involving students through T-L scheme	Resolved
6	Automation of Services	Resolved
	Administration	
1	About service from office	Resolved
2	About availability of books in library	Resolved
3	About university Exam Time table	Resolved
4	Delay in result declaration by University	Resolved

Table: 5.1.10(c): Students Welfare Committees

Sr.No	Name of Committee
1	Anti-Ragging Committee
2	Woman's Redressal committee
3	Internal complaint committee

5.1.11 What are the institutional provisions for resolving issues pertaining to sexual harassment?

There is no single issue pertaining to sexual harassment. A committee headed by a senior lady faculty as its chairperson with other members. Under this Committee workshop has been arranged in the institute for awareness of various laws of sexual harassment. Student can do complain to any member of this if they suffer from harassment. Institute also has helpline which is always ready to help for such cases. Self-defense activity is also conducted for girls for safety purpose. The structure is as given below,

Table: 5.1.11: Women's Redressal Committee

Sr. No.	Name of Committee Members	Designations
1.	Dr. Mrs. Madhuri S. Chendke	Member - NGO Helpline
2.	Dr. A. B. Raut	Presiding officer-Head of department
3.	Mr. S. V. Dhole	Member-Registrar
4.	Prof. R. A.Wadwekar	Member- Lawyer

5.	Prof. A. B. Kharate	Member- Faculty
6.	Ms. Kirti Chimote	Member-Supporting Staff
7.	Ms. Aashna Rukhsaar	PG Student
8.	Mr. Pranav Chendke	UG Student

5.1.12 Is there an anti-ragging committee? How many instances (if any) have been reported during the last four years and what action has been taken on these?

Yes, Institute has anti ragging committee. No such instance has happened in the Institute. Under this committee student submit anti ragging affidavit every academic year. All HODs of department take care and maintain discipline in the institute.

Table 5.1.12: Anti Ragging Committee

Sr. No.	Name	Designation
1	Head of Institute	Director, HVPM's College of Engineering & Technology, Amravati
2	Representative of Civil Administration	Shri S.G. Rode, SGB Amravati University Engineer
3	Representative of Police Administration	P.I., Rajapeth Police Station, Amravati
4	Local Media	Mr. Vilas Marathe, 9422167206
5	NGO	Mr. P.U. Chaudhari, Mr. Ravi Khandekar
6	Faculty Members	1. Mr. A.B. Kharate 2. Ms. C.S.Rathi
7	Parents' Representative	1) Mr.Vivek Marathe 2) Mr. Suresh Bhagyawant
8	Fresher's Representative	1) Ms. Vaishnavi D. Pande Mob. 7350668623 2) Mr. Vinay M. Bhartiya Mob. 9823541747
9	Rep. of Senior Student	Mr. Shubham Deshmukh
10	Non-Teaching Staff	Mr.S.V. Dhole, Registrar, COET shripad.dhole59@gmail.com
11	Councilor	Dr. Sudhir A. Borgaonkar Dr. Sunayana S. Borgaonkar

5.1.13 Enumerate the welfare schemes made available to students by the institution.

Institute made available various welfare schemes to students such as:

A. Implemented all State/Central/ govt. agencies welfare schemes such as social welfare scheme, scheme of scholarship, book bank scheme, hostel and

maintenance s allow scheme, Tribal welfare Department similar scheme, Minority Welfare Similar Schemes, Schemes for tuition fees, reimbursement schemes for economically backward students, Tuition Fees Waiver Scheme of Govt.

B. College Supports students to seek financial assistance and support from private trust, organization and individual such as leela poonawal trust, Social organization of various communities

C. College gives support and assistance through

1. Easy installment for payment of fees
2. Concession in fees
3. Opportunity to earn through earn while learn scheme

D. welfare for physical wellness
1. Providing world class facilities for physical Fitness
2. Flexibility for participating in extra-curricular, And sport events
3. Yoga and self-defense training

E. Other welfare measures

1. Book bank schemes
2. Counseling sessions for students and parents
3. Award/Reward for motivation
4. Medical care
5. Formation of student's forums for self-development
6. Alumni Association

5.1.14 Does the institution has registered Alumni Association? If 'yes', what are its activities and major contributions for institutional, academic and infrastructure development?

Yes, Institute has registered alumni association with registration number of association is MAH/823/09/AMT.

This association consists of president, Vice President, Secretary, Joint secretary, Treasurer, faculty as well as students as member. Various programs like alumni meet alumni expert guidance to students and alumni expert seminars are arranged under this association. Alumni Feedback is use to improve training and placement activities. Alumni also donate books to college library for student's welfare. Every

year alumni members are used to visit institute and give guidance about carrier and recent trends. Alumni expert talk is arrange whenever it is possible.

Table 5.1.14(a): Schedule of Alumni Interaction with Institute

Sr. No.	Name of Alumni	Date of visit	Activities
1.	Mr. Sandip Nirmal	15 March 2016	Workshop on JavaScript
2.	Mr. Shashank deshmukh Mr. Amol Gharpande	5 September 2016	Interaction with students about campus recruitment
3.	Mr. Shashank deshmukh Mr. Amol Gharpande	13 September 2016	Guest lecture Expectation of industry from fresher

Table 5.1.14(b): Details of Alumni Meet

Sr.No	Date	Venue
1	14th December 2014	The President Hotel, Pune
2	4th November 2013	HVPM's COET, Amravati
3	14th November 2012	HVPM's COET, Amravati

Major contribution:

- Help for placement
- Help for Industry Training
- Donation of books
- Conducts of seminar/workshops
- Sponsorship for conferences

5.2 Student Progression

5.2.1 Providing the percentage of students progressing to higher education or employment (for the last four batches) highlights the trends observed.

Table 5.2.1: Students progressing to higher education

Student Progression	2015-16	2014-15	2013-14	2012-13
UG to PG	5.59%	4.92%	4.14%	3.13%
PG to Ph.D.	2 % Registered			
Employed • Campus selection • Other than campus	24.41% 56%	33.93% 45.33%	22.22% 53%	26.37% 52%
Enter preneurship/self Employment	02	02	06	02

5.2.2 Provide details of the programme wise pass percentage and completion rate for the last four years (cohort wise/batch wise as stipulated by the university)? Furnish programme-wise details in comparison with that of the previous performance of the same institution and that of the Colleges of the affiliating university within the city/district.

Table 5.2.2(a): Pass Percentage of programmes in institution

Year / Branch	Percentage of Passing			
	2012-13	**2013-14**	**2014-15**	**2015-16**
Computer Science and Engineering	83.91%	86%	95%	98%
Electronic and Telecommunication	82.09%	93.16%	87.60%	77.39%
Information Technology	76.74%	90.91%	95.56%	91%
Mechanical Engineering	NA	NA	NA	NA
MBA	78.05%	48.84%	46.88 %	58.49 %

Table 5.2.2(b): Comparisons with other institutions in SGBA University (City)
Department: Computer Science and Engineering

Name of College / Session	HVPM COET	PRMIT Badnera	PRMIT NEW	SIPNA COET	P.R.Patil COET	P.R.Pote Patil COET
2015-16	98%	96%	93%	93%	85%	93%
2014-15	95%	92%	97%	95%	97%	98%
2013-14	86%	95%	97%	95%	100%	98%
2012-13	83.91%	79.83%	76.12%	77.56%	77.78%	64.86%

Department: Electronics and Telecommunication

Name of College / Session	HVPM COET	PRMIT Badnera	PRMIT NEW	SIPNA COET	P.R.Patil COET	P.R.Pote Patil COET
2015-16	77.39%	90%	90%	94%	86%	94%
2014-15	87.60%	91.85%	81.54%	95.52%	80.88%	88.24%
2013-14	93.16%	95.45%	96.42%	96.69%	98.11%	94.64
	HVPM COET	**PRMIT Badnera**	**Raisoni**	**SIPNA COET**	**Ghatkheda COET**	**P.R.Pote Patil COET**
2012-13	82.09%	82.18%	60%	85.37%	62.7%	80.77%

Department: Information Technology

Name of College / Session	HVPM COET	PRMIT Badnera	G.H. Raisoni	SIPNA COET	P.R.Patil COET	JDIET, Javatmal

2015-16	91%	97%	76%	91%	86%	74%
2014-15	95.56%	95.51%	81.25%	94.74%	86.86%	89.39%
2013-14	90.91%	92.41%	100%	98.77%	93.62%	91.81%
2012-13	76.74%	81.11%	53.45%	73.95%	88%	54.72%

Department : MBA

Name of College / Session	HVPM COET	PRMIT Badnera	SIPNA COET	P.R.Patil COET	JDIET, Javatmal
2015-16	58.49%	70.18%	79.55%	40%	68%
2014-15	46.88%	75.68%	85.67%	36.36%	55.56%
2013-14	48.84%	61.45%	52.54%	51.06%	66.07%

Table 5.2.2(c): List of university merit holders

Sr. No.	Name of the Student	Branch/Year	Merit Rank	Passing Year
1	Ms. Neharika Sharma	MBA	6th merit in University	2016
2	Ms. Monika Jaiswal	MBA	3rd merit in University	2016
3	Ms.Huda Anam Abdul Masdjid	Final Year ENTC	6th merit in University	2016
4	Ms.Trupti Anant Bidwai	Final Year ENTC	7th merit in University	2016
5	Ms.Sapna Ashok Churare	Final Year CMPS	1ST merit in University	2016
6	Ms. Shiba Tabassum Sheikh Wasir	Final Year CMPS	4th merit in University	2016
7	Ms.Madhurika Srikant Pendke	Final Year IT	7th merit in University	2016
8	Ms. Anupriya Mishra	EXTC/ Final Year	2nd in University	2015
9	Mr. Abhijeet Sarkate	EXTC/ Final Year	9th in University	2015
10	Mr. Atul Dhok	EXTC/ Final Year	10th in University	2015
11	Ms. Sanjana Dhanorkar	CMPS/ Final Year	2nd in University	2015
12	Ms. Uroojssama Abdul Wahed	CMPS/ Final Year	2nd in University	2015
13	Ms. Ashna Rukhsar	CMPS/ Final Year	5th in University	2015
14	Ms. Poonam Sharma	IT/ Final Year	2nd in University	2015
15	Miss.Zaibunnisa Sheikh	EXTC/Final yr.	1st in University	2014
16	Miss.Madhavi Mende	EXTC/Final yr.	7th in University	2014
17	Miss.MonaliWakode	MBA/Final yr.	10th in University	2014
18	Miss.PriyankaPursani	CMPS/ME/Final yr.	2nd in University	2014
19	Miss Pooja S. Dhole	CMPS/Final yr.	1st in University	2013

20	Mr.Vaibhav N. Kalhane	EXTC/Final yr.	1st in University	2013
21	Mr.YukeshM.Kapgate	EXTC/Final yr.	2nd in University	2013
22	Miss.SapnaGawande	IT/Final yr.	3rd in University	2013
23	Miss.SnehaKalbande	IT/Final yr.	6th in University	2013
24	Miss.Zaveriya Sayed	IT/Final yr.	7th in University	2013
25	Miss.MohiniP.Kak	MBA/Final yr.	8th in University	2013
26	Miss.Yogita S. Kanugo	MBA/Final yr.	8th in University	2013

5.2.3 How does the institution facilitate student progression to higher level of education and/or towards employment?

- Institute has Training and placement cell conducts various practice sessions of campus drives and mock tests to enhance the employability of students.

- English Communication Training(ECT), Aptitude training program under T&P cell are incorporated in the timetable for enhancing English language and campus preparation among students

- Skill Sharpening Training (SST) is also held for student progression which includes GD-PI(Group Discussions and Personal Interviews) which in turn helps in personality development of students

- Coaching is provided to students through activity under CTA in various domains such as Information Security, RIMM(remote Infrastructure Management), Software Development, Software Testing, Android, VLSI, Embedded and IOT, Automation Engineering, CAD, Testing etc

- Workshops on recent trends are held by various department for students

- Students are encouraged by faculties to participate in various sports and project exhibitions

- Students also participate in "AVISHKAR", state level event at University held annually for promoting innovative ideas among students. Winners are felicitated by giving color coat by university. Institute also gives reward to such students for their achievement.

- GATEFORUM classes are conducted in college and students are provided concessions for the same.

- AMCAT exams are held in the institute for students which facilitate better job opportunities to students.

- Assist and facilitate environment for student's placement

5.2.4 Enumerate the special support provided to students who are at risk of failure and drop out?

- Know Your Student (KYS) is done by faculties to know the students regarding their knowledge, skill, behavior and attitude which in turn help to reduce risk of failure and dropout.
- Weaker students with the risk of failure or dropout are identified based on their previous and current academic performance
- Remedial classes and retest are held for weaker batch/students.
- Mentoring sessions are held for counseling the students regarding academic as well as social issues.
- Letters to parents are sent informing about their ward's performance and occasional parents meet are held
- Students having low attendance are identified and their parents are informed. Students are motivated for increasing the attendance

5.3 Student Participation and Activities

5.3.1 List the range of sports, games, cultural and other extracurricular activities available to students. Provide details of participation and program calendar.

Table 5.3.1(a): Indoor and outdoor sports and games facilities are available in institute.

Sr.No	Facilities/ Ground
01	Indoor for Badminton and Table Tennis
02	Indoor for Gymnastic
03	Three Basket Ball Court
04	Cricket Ground
05	Football Ground
06	Kabaddi Ground
07	Aerobic Centre
08	Three Volley Ball Ground
09	Two Kho-Kho Ground
10	Swimming Pool
11	Arena For Mallkhamb
12	Athletics' Ground
13	Well Equipped Gym
14	Wrestling Hall

15	Hand Ball Ground
16	Tennis Court
17	Soft Ball Ground
18	Ball Badminton Ground
19	Judo Hall
20	Hockey Ground
21	Yoga Centre

List of Activities available for participation

1. **Intra college events** like Daksh band, dazzler, Srujan , Red Ribbon, NSS, Tarang, Sport festival, Technizzma
2. Departmental Student's forum activities
3. Celebration of national days, cultural days,

Intercollegiate:

- sports and game tournaments org. by university
- Intercollegiate cultural Competition (Youth festival) organization by university
- Intercollegiate debate/essay/Quiz competition organized by Govt. and other organization
- Participation in inter university Sport and cultural competition
- Participation in national competition
- Institute organized annual TARANG event in the month of JANUARY – FEBRUARY.

The sport facilities are available in institution campus are:

The sport events for college students in campus are scheduled in the month of January and February of every academic year

Table 5.3.1(b): Details of Sport events organized in campus

Sports	Category	Years				
		2016-17	**2015-16**	**2014-15**	**2014-13**	**2012-13**
Cricket	M	272	304	288	304	288
Cricket	F	128	96	160	160	192
Badminton	M	24	18	28	38	36
Badminton	F	18	12	24	24	36
Chess	M/F	40	28	32	32	36
Volleyball	M	108	162	144	135	108
Football	M	---	60	90	75	180

Every year Sant Gadge Baba Amravati University organized Inter collegiate sports events from July to February for students.

Table 5.3.1(c): Details of Sport events organized in University

Sports	Category	Years				
		2016-17	2015-16	2014-15	2014-13	2012-13
Cricket	M	16	16	16	16	16
Handball	M	Nil	Nil	16	Nil	Nil
Basketball	M	07	12	12	12	12
Basketball	F	Nil	12	12	12	10
Badminton	M	06	06	06	06	06
Badminton	F	06	06	06	06	06
Table tennis	M	05	03	03	01	Nil
Chess	M/F	06	06	06	Nil	05
Volleyball	M	12	12	12	12	11
Football	M	Nil	Nil	Nil	Nil	15
Swimming / water polo	M/F	03	05	26	06	04
Ball badminton	M	09	10	10	09	Nil
Gymnastic	M/F	Nil	Nil	04	Nil	Nil
Rope Malkhamb	M/F	Nil	Nil	05	05	01
Athletics	M/F	14	11	18	34	30
Judo	M/F	Nil	01	Nil	03	nil
Kho Kho	M	11	12	10	12	13
Yoga	M/F	Nil	Nil	Nil	02	Nil
Power lifting	M/F	01	Nil	Nil	Nil	Nil

5.3.2 Furnish the details of major student achievements in co-curricular, extracurricular and cultural activities at different levels: University / State / Zonal / National / International, etc. for the previous four years.

A. Achievements of students in sport

Table 5.3.2(a): Achievements of students in sport (Year wise)

Year	co-curricular, extracurricular and cultural activities	Name of Achiever	Remark
2016-17	Badminton	Mr. Nikhil Pande	Selected in university team
	Ball badminton	Mr. Ram Jagtap	Colour coat holder
	Badminton	Mr. Nikhil Pande	Colour coat holder
2015-16	Basketball	Mr. Roshan Kalinkar	Selected in

			university team
	Judo	Miss. Pratiksha Chauhan	Represent Amravati university in Judo.
2014-15	Rope Mallkhamb	Ms. SnehalGupta	Colour coat holder
	Basket Ball	Mr. SagarPohare	Colour coat holder
	Ball Badminton	Mr. Ram Jagtap	Colour coat holder
	Judo	Miss. PratikshaChavan	Colour coat holder
	Kho-Kho	Gaurav Dharmale	Colour coat holder
2013-14	Rope Mallkhamb	Ms. Snehal Gupta	Secure IVth place
	Basket Ball	Mr. Sagar Pohare	Colour coat holder
	Kho- Kho	Mr. Nikhil Panjabi	Ist Standby
	Basket Ball	Ms. SamikshaAwashi	Ist Standby
2012-13	Ball Badminton	Mr. Ram Jagtap	Color coat holder

B. Achievements of students in curricular, co-curricular and extracurricular

(Year wise)

Avishkar Color Coat Holders

Table 5.3.2(b): University Merit rank and color coat holders

Year	Name of the Student	Branch/Year	Remark
2016-17	Mr. Ram Jagtap	Final Year ENTC	Colour coat in ball badminton
	Mr. Nikhil Pande	First year CSE	Colour coat in badminton
2015-16	Mr. Roshan Kalinkar	EXTC/ Final Year	Colour Coat in Basket Ball
	Ms. Pratiksha Chavan	EXTC/ Final Year	Colour Coat in Judo
	Mr. Sumit Dhonde	EXTC/ Final Year	Colour Coat in students category
2014-15	Miss. Snehal Gupta	EXTC/Final yr.	Colour coat in Rope Mallkhamb
	Miss.SagarPohare	EXTC/Final yr.	Colour coat in Basket-Ball
	Mr. Ram Jagtap	EXTC/Third yr.	Colour coat in Ball Badminton
	Mr. Gaurav Dharmale	CMPS/ Third yr.	Colour coat in Kho-Kho
	Miss. Pratiksha Chavan	EXTC/Third yr.	Colour coat in Judo
2013-14	Miss. Snehal Gupta	EXTC/Third yr.	Color coat in Mallkhamb
	Miss.SagarPohare	EXTC/Third yr.	Colour coat in Basket-Ball

C. Co-curricular and extra curricular

Table 5.3.2(c): List of achievements of students

Name of Event	Name of Student	Position	Department
Year 2015-16			
Speech competition on " women empowerment "	Ms. Kasturi Aurangabadkar	1st rank	ENTC
Quad copter design	Mr. Akshay lakde	1st rank	
	Mr. Sumit sambhe		
	Mr. Dinesh bisen		
	Mr. Pravin chalisgaonkar		
Speech competition on "igilance commission "	Ms. Kasturi Aurangabadkar	1st rank	
PHP & JOOMLA workshop	Chetas Patil ,	1st rank	CSE
	Chetan Thakare		
	Rohit Gavfale		
	Nikhil Atkarae		
Poster Presentation	Priyanka Vikhe	1st rank	
	Monaka Thawlare	3rd rank	
Paper Presentation	Zainab Ali	1st rank	
	Anuja DeshmUkh		
Project Competition	Snehal Shende	1ST Prize	
	Anam Khan	3rd Prize	
Technical Quiz	Swejl Ajmire,	1st rank	
	Akash Ghargre		
	Mayuri Rakhonde		
Innovative Ideas	Ankit Chaddha	1st Prize	
NCC (National Cadet Corporation)	Rutuja Mankar	Best Cadet	IT
Techno Experts 2016 National Level Technical Festival	Prafull Pande and Mr. Tapesh Chalisgawkar	Won IPL Auction	
Year 2014-15			
PHP With MYSQL Workshop	Prasad Behare,	1st rank	CSE
	Vaishnai Shende	3rd Rank	
	Pallavi Sadanshiv(3)		
On-spot programming	Stuti Tiwari,	1st Rank	
	Priyanka Bansod(1)	2nd Rank	
Technical Quiz	Swejl Ajmire,	1st Prize	
	Akash Ghargre,		
	Mayuri Rakhonde		
Project Competition	Swati Wannalikar,	1st Prize	
	Reshma Vishwakarma		

Year 2013-14			
Project exhibition	Nikhil Atkare	1st prize	CSE
	Chetan Thakare		
	Ms. Sneha lahane	2nd prize	IT
Web page design	Ms. Pranaya Bhoyar	3rd prize	
	Ms. Bavika Pandya		
	Mr. Zubair Makrani		
	Akash Bijwe		
paper in national conference on Mobile Computing	Ms. Minal Mahure	Best paper presentation honor.	
National Level Technical Paper Presentation on "Secure ATM by Image Processing".	Miss. Neha Gore	2nd prize	
	Ms. Yamini Mishra		
	Harshada Deshmukh		
	Miss Chaitali Kolhe		
'Best Engineer Competition'	Ms. Chaitali Kolhe	Reached finale	
Year 2012-13			
Essay competition	Mr.Subodh Dhurandar	2nd	EXTC
Debate competition	Mr.Subodh Dhurandar	3rd	
Debate competition	Mr.Subodh Dhurandar	2nd	
Debate competition	Mr.Subodh Dhurandar	2nd	
Debate competition in memorial of Prof Ram Meghe College	Mr.Subodh Dhurandar	1st	
Essay competition	Mr.Subodh Dhurandar	2nd	
Contraption	Mr. Chetan Indore	1st	
	Mr. Jagdish Dhawak		
Robo–Galaxy 2013	Miss. Ashwini wane	1st	
	Miss. Ashwita khadse		
	Miss. Anupriyamishra		
	Miss. Ankita oza		
	Miss. Aachal gite		
	Miss. Neha sangunwedhe		
Srujan Software	Piyush Kalmegh	1st runner up	CSE
	Kishor Awazade		
	Kunal Yeole		
	Aditya Aware		
	Vishakha Arbat		
	Neha Pathak		
National level project competition on " Ball tracking"	Mr.Akshay Dikshit	3rd prize	IT
	Mr.Hrushikesh Joshi		
	Ms.Vishal sigh Thakur		
	Ms. Shraddha Mahulkar		
Chess competition	Mr.Vaibhav Saware	Selected for State	

National Level Technical Paper Presentation on "Nokia Morph".	Sneha Lahane	2nd Prize	
	Pranaya Bhoyar		
Project competition on " Sport Simulator For Athletes" (Global Conference)	Mr. Aamir Khan	1st position	
Project competition on " Sport Simulator For Athletes" (Global	Miss Swati Gupta	Third position	
	Mr. Aakash Pethe		
	Ms. Sadhna Aandhale.		
	Ms.Snehal challani		

5.3.3 How does the college seek and use data and feedback from its graduates and employers, to improve the performance and quality of the institutional provisions?

Table 5.3.3: Details of Data collection

From	Responsibility with	Method
Graduates, Postgraduates, Alumni	T&P , HoDs & Alumni association	During Alumni meetings ,emails or telephonic talk When Graduates visit department/Institutes
Employers	T&P& HoDs	Visiting Employers, Interviewing with employers when come for campus placement

Use of data & Feedback

- To identify weakness and challenges regarding gap between expectation of industry and curriculum
- To upgrade training programmes of employability enhancement
- To arrange industry visits where alumni work or employers come for campus
- To strengthen network with alumni and industry
- To organize expert talk or to call expert as resource person for college.

5.3.4 How does the college involve and encourage students to publish materials like catalogues, wall magazines, college magazine, and other material? List the publications/ materials brought out by the students during the previous four academic sessions.

- **Involvement:**

  There is overall Editorial board for magazines and separate Editorial board for each sections The Editorial board consists of 3-4 students members

  Institute release college magazine known as "Techno wings" every year. Students actively published articles in magazines. The main sections covered in Magazine are

  - Marathi section
  - Urdu section
  - Hindi section
  - English section
  - Sanskrit section
  - Interviews
  - Face in the crowd
  - Technical section
  - Art & Crafts
  - Carry creature
  - Report Section
  - Article/Art publication on notice board of student corner

Table 5.3.4: Details of published materials

Year	List of publications/books	No. of participants
2016-17	College Magazine	Under publication
	Paper publications	5*
	Wall Magazine	12
2015-16	College Magazine	212
	Movie release (Daptar)	1
	Book publication(Amhi Sare Pansare)	1
	Paper publications	58
	Wall Magazine	15
2014-15	College Magazine	203
	Paper publications	59
	Wall magazine	10
2013-14	College Magazine	112
	Paper publications	43
	Wall magazine	12
2012-13	College Magazine	108
	Wall Magazine	09

* Data till date

- **Encouragement:**
  - To organize Art , crafts & book exhibition on various themes
  - To organize poster competition
  - To encourage to develop Art & crafts skill
  - To reward students
  - To invite artist , authors celebrity of the field for interaction with students
  - Various gazalkar, gitkar, natakkar are invited in cultural gathering to encourage to develop cultural skills.

5.3.5 Does the college have a Student Council or any similar body? Give details on its selection, constitution, activities and funding.

Yes, we call it as a Student representative committee (SRC), which is to be formed by following the certain rules and regulation listed below:

Criteria for selection of SRC member:- As per provision of Maharashtra University act 1994 Formation of SRC

The Students Council rules and shall consist of the following members:

1. Principal - Chairman
2. One lecturer, nominated by the principal
3. Teacher in charge of National Cadet Corps
4. National Service Scheme Programme Officer
5. One student from each class, who has shown academic merit at the examination held in the preceding year and who is engaged in full-time studies in the college, nominated by the principal
6. Director of Sports and Physical Education.
7. One student from each of the following activities, who has shown outstanding performance, nominated by the principal, namely :-
   i. Sports
   ii. National Service Scheme and Adult Education
   iii. National Cadet Corps
   iv. Cultural Activities
8. Two lady student members nominated by the principal.
9. The Student members of this council shall elect, from among themselves, the Secretary of their respective council.

10. There shall be Students Council consisting of at least one seat each be reserved for students belonging to-
    i. Scheduled Castes
    ii. Scheduled Tribes ;
        a .Denotified Tribes (Vimukta Jatis)
        b. Nomadic Tribes
    iii. Other Backward Classes
    iv. One seat for women students.

11. A student shall be eligible to be, or continue to be, a member of any of the Students Council, only if he is enrolled as a full time student.

12. The nomination of the student members of the Students Council shall be made every year, as soon as possible after the commencement of the academic year on a date to be fixed by the management Council. The term of office of the nominated Student members shall begin with effect from the date of nomination shall extend upto the last day of the academic year, unless they have, in the meantime, incurred any of the disqualifications specified by or under the Act; and shall then

13. One third of the members of the Council shall constitute the quorum. The rules and procedure for conduct of business of the meetings and such other matters shall be such as may be prescribed. The Council shall meet at least once in every three months

Activities

- To take Feedback,
- Suggestion for improvement
- To organize sports cultural fest
- To support tech festival
- To support each dept. students forum activity
- To support NSS activity
- To organize and support blood donation camp
- To organize blank pages bank
- Tree plantation
- To observe various days like Teacher days, Engineering. Days etc

- To organize Fresher welcome & sendoff function

- To organize Passport camp

  Funding: form College as and when require as per provision in budget

Table 5.3.5: Expenditure for activities of SRCs

Sr. No.	Year	Total Expenditure of SRCs (Rs.)
1	2012-13	771450/-
2	2013-14	840965/-
3	2014-15	1541331/-
4	2015-16	1109567/-

5.3.6. Details of various academic and administrative bodies that have student representative on them.

Details of academic and administrative bodies

Table 5.3.6(a): Inter Complaint Committee

Sr. No.	Name of Committee Members	Designation for Committee
1	Dr.Mrs. Madhuri S. Chendke	Member - NGO Helpline
2	Dr. A.B.Raut	Presiding officer-Head of department
3	Mr. S. V. Dhole	Member-Registrar
4	Prof. R.A.Wadwekar	Member-Faculty
5	Prof. A.B.Kharate	Member- Faculty
6	Ms. Kirti Chimote	Member-Supporting Staff
7	Ms. Ashna Rukhsaar	Student
8	Mr. Pranav Chendke	Student

Table 5.3.6(b): UTKARSH Departmental forum

Sr. No.	Year	Name of Staff & Student	Department	Designation
1	2016-17	Dr. A B.Raut	CSE	President
		Prof A.B.Potey		Co-ordinator
		Prof. R.R.Shelke		Treasurer
		Priya Sawwalakhe		Secretary
		Chetas Patil		Joint Secretary
2	2015-16	Dr. AB.Raut	CSE	President
		Prof A.B.Potey		Coordinator
		Prof. R.R.Shelke		Treasurer
		Tejaswini Marodkar		Secretary
		Akash Ghagre		Joint Secretary
3	2014-15	Dr. AB.Raut	CSE	President
		Prof A.B.Potey		coordinator

4	2013-14	Prof. R.R.Shelke	CSE	Treasurer
		Naoman Khan		Secretary
		Aniruddha Wadi		Joint Secretary
		Dr. AB.Raut		President
		Prof A.B.Potey		coordinator
		Prof. R.R.Shelke		Treasurer
		Saurabh Pachkhede		Secretary
		Aditya Hande		Secretary
5	2012-13	Dr. AB.Raut	CSE	President
		Prof A.B.Potey		coordinator
		Prof. R.R.Shelke		Treasurer
		Rachit Pathak		Secretary
		Sumit sahu		Girls Representative
		Trupti Tawri		Boys Representative

Table 5.3.6(c): FEATS Departmental forum

Sr. No	Year	Name of Staff & Student coordinator	Department	Designation
1	2016-17	Dr. U.A.Kshirsagar	ENTC	President
		Ms. Rupali Jillawar		In-charge
		Miss. Ashwini Tonde		Treasurer
		Rohit Bodhke		Student co-ordinator
2	2015-16	Dr. U.A.Kshirsagar	ENTC	President
		Ms. Rupali Jillawar		In-charge
		Miss. Ashwini Tonde		Treasurer
		Sumit Dhonde		Student co-ordinator
3	2014-15	Dr. U.A.Kshirsagar	ENTC	President
		Ms. Rupali Jillawar		In-charge
		Nahed Mulla		Treasurer
		Rashmi Gaikwad		Student co-ordinator
4	2013-14	Dr. U.A.Kshirsagar	ENTC	President
		Ms. Neha Laddha		In-charge
		Nahed Mulla		Treasurer
		Nikhil Mahatme		Student co-ordinator
5	2012-13	Dr. U.A.Kshirsagar	ENTC	President
		Ms. Neha Laddha		In-charge
		Nahed Mulla		Treasurer
		Vaibhav Kalhane		Student co-ordinator

Table 5.3.6(d): ITSA Departmental forum

Year	Name of Staff & Student	Department	Designation
2015-16	Ms. Bhavana Tiwari	Information Technology	Secretary
	Mr. Roshan Mankar		Joint Secretary
	Ms. Reshma Deshmukh		Final Year Girls Representative
	Mr. ShubhamPachkor		Final Year Boys Representative
	Ms. Pranali Manekar		3rd Year Girls Representative
	Mr. AkshayDhonde		3rd Year Boys Representative
	Ms. Aishwarya Deshmukh		2nd Year Girls Representative
	Mr. Rohan Tiwatane		2nd Year Boys Representative
2014-15	Mr.Pratik Dagwar	Information Technology	Secretary
	Mr.Rohit Jawalkar		Joint Secretary
	Mr.Swapnil Raut		Final Year Girls Representative
	Ms.Sneha Lahane		Final Year Boys Representative
	Mr.Shriram Nulkar		3rd Year Girls Representative
	Ms.Bhawana Tiwari		3rd Year Boys Representative
	Mr.Pankaj Ingale		2nd Year Girls Representative
	Ms.Amruta Mise		2nd Year Boys Representative
2013-14	Mr. Shrikant Shegokar	Information Technology	Secretary
	Ku. Nilofar Pathan		Joint Secretary
	Mr. Siddheshwar Kute		Final Year Girls Representative
	Ku. Neha Gore		Final Year Boys Representative
	Ku. Sneha Lahane		3rd Year Girls Representative
	Mr. P. A. Dagwar		3rd Year Boys Representative
	Mr. Abrar Khan		2nd Year Girls Representative
2012-13	Ku. Sonali Chore	Information Technology	2nd Year Boys Representative
	Mr.Ankush Shelotkar		Secretary
	Ms.Nilofar Pathan		Joint Secretary
	Mr,Devendra Deshmukh		Final Year Girls Representative
	Ms.Snehal Challani		Final Year Boys Representative
	Mr.Rohit Rochlani		3rd Year Girls Representative
	Ms.Subhangi Purohit		3rd Year Boys Representative
	Mr.Pratik Dagawar		2nd Year Girls Representative
	Ms.Neha Gore		2nd Year Boys Representative

Table 5.3.6(e): Website Management Committee

Sr.	Year	In-Charge	Member
1.	2016-17	Prof. N. A. Rathod (Convener)	Mr. Chetas Patil
		Prof. Y. R. Rochlani (Convener)	Mr. Musheer Ahsaan
2.	2015-16	Dr. A. B. Raut (Convener)	Mr. Chetas Patil
		Prof. N. A. Rathod (Member)	Mr. Musheer Ahsaan
		Prof. Y. R. Rochlani (Member)	
3.	2014-15	Prof. A. B. Potey (Convener)	Mr. Yogesh Shelokar
		All HoDs (Members)	Ms. Maithilee Kale
4.	2013-14	Prof. A. B. Potey (Convener)	Mr. Yogesh Shelokar

| 5. | 2012-13 | All HoDs (Members) | Ms. Maithilee Kale |
| | | Prof. A. B. Potey (Convener) | Ms. Anjali Gondse |

Table 5.3.6(f): College Magazine Committee

Sr. No.	Year	In-charge	Magazine Secretary
1.	2016 -16	Prof. A.B.Kharate	Ms. Shivani Anasane Mr. Gaurav Thakare
2.	2015-16	Prof. A.B.Kharate	Mr. Sumit Sambhe Ms. Akshata Deshmukh
3.	2014-15	Prof. A.B.Kharate	Mr. Hanuman Bobade Mr. Aniket Shinde
4.	2013-14	Prof. K.G.Bagde	Mr. Akash Khapare Mr. Alpesh Puranik
5.	2012-13	Prof. Ravi Sahu Prof. S.D.Mahatme	Mr. Pushpak Chandurkar Mr. Nikhil Mathane

Table 5.3.6(g): Hostel Committee

Sr. No	Year	Name of In-charge	Student Co-ordinator
1.	2016-17	Mr. A.B. Kharate, Mr.C.V.Koleshwar Ms. Swati Anantwar, Ms.Rashmi Bijwe, Ms. Chetana Rathi	Hostel Student Co-ordinator
2.	2015-16	Mr. A.B. Kharate, Mr.C.V.Koleshwar Ms. Swati Anantwar, Ms.Rashmi Bijwe, Ms. Chetana Rathi	
3.	2014-15	Mr. A.B. Kharate, Mr. Akshay Vartak, Ms. Nazneen, Ms. P. Bodhakhe	
4.	2013-14	Mr.A.B. Kharate,Ms. Swati Anantwar	
5.	2012-13	Mr.A.B. Kharate,	

Table 5.3.6(h): Training and Placement Cell

Sr. no	Year	Name of In-charge	Student Co-ordinator
1.	2016-17	Mr. Amol Karmarkar Ms. Pragati Chowhan (IT), Mr. Nachiket Rathod(CSE), Mr. Apurva Tayde(CSE), Mr. Anup Madghe(ENTC), Mr. Harshad Oak(ENTC), Mr. Vasant Chandane(MBA), Mr. B.S. Mahulkar(TNP Associate)	Two Students of final year from each class
2.	2015-16	Mr. Amol Karmarkar Ms. Pragati Chowhan (IT), Dr. Mrs. A.S.Dahake (Raut), Mr.P.L.Ramteke Mr. Anup Madghe(ENTC), Mr. B.S. Mahulkar(TNP Associate)	Two Students of final year from each class

3.	2014-15	Ms. K.P.Bang, Dr. Mrs.U.A.Kshirsagar (Belorkar) Mr. Amol Karmarkar Ms. Pragati Chowhan (IT),Mr. Anup Madghe (ENTC), Ms. Pragati Chowhan (IT), Mr.Kapdiya, Mr. Nachiket Rathod (CSE),Mr. B.S. Mahulkar(TNP Associate)	
4.	2013-14	Mr. Amol Karmarkar, Mr. B.S. Mahulka r(TNP Associate), Mr. Kapdiya, Ms.K.P.Bang, Holey, Hajare	
5.	2012-13	Mr. Amol Karmarkar, Mr. B.S. Mahulkar(TNP Associate)	

Table 5.3.6(i): Send off for final Year

Sr. No	Year	Name of In-charge	Student Co-ordinator
1.	2016-17	Dr. Mrs. A.S.Dahake (Raut), Mr.S.S.Rathi	
2.	2015-16	Dr. Mrs. A.S.Dahake (Raut), Mr.S.S.Rathi, Mr.P.L.Ramteke	Students of Third year
3.	2014-15	Dr.Mrs.U.A.Kshirsagar (Belorkar),M.Mantri	
4.	2013-14	Dr.Mrs.U.A.Kshirsagar (Belorkar),M.Mantri	
5.	2012-13	Dr.Mrs.U.A.Kshirsagar (Belorkar),M.Mantri	

Table 5.3.6(j): Music Club and Dazzeler

Sr. no	Year	Name of In-charge	Student Co-ordinator
1.	2016-17	Mr. R. M. Sahu	
2.	2015-16	Mr. R. M. Sahu, Ms. K. P. Bang	
3.	2014-15	Mr. R. M. Sahu, Ms. K. P. Bang, Prof. H. S. Holey	Student Co-Ordinator
4.	2013-14	Mr. R. M. Sahu, Prof. H. S. Holey	
5.	2012-13	Mr. R. M. Sahu, Prof. H. S. Holey	

Table 5.3.6(k): Cultural Club

Sr. No.	Year	Name of In-charge	Student Co-ordinator
1.	2016-17	Mr. M. R. Joshi, Ms. R. A.Wadwekar	
2.	2015-16	Mr. M. R. Joshi, Ms. R. A.Wadwekar	
3.	2014-15	Mr. M. R. Joshi, Ms. P. D. Chowhan	Students Co-Ordinator
4.	2013-14	Mr. R. M. Sahu, Mr. M. D. Bharti	
5.	2012-13	Mr. R. M. Sahu, Mr. M. D. Bharti	

Table 5.3.6(l): Tech Buzz

Sr. No.	Year	Name of In-charge	Student Co-ordinator
1.	2016-17	Dr. Mrs. U. A. Kshirsagar (Belorkar)	
2.	2015-16	Dr. Mrs. U. A. Kshirsagar (Belorkar)	Students Co-Ordinator
3.	2014-15	Dr .Mrs. U. A. Kshirsagar (Belorkar)	

Table 5.3.6(m): Ragging prevention Committee

Sr. no	Year	Name of In-charge	Student Co-ordinator
1.	2016-17	All HODs & Class Teacher	
2.	2015-16	All HODs & Class Teacher	
3.	2014-15	All HODs & Class Teacher	Students Co-Ordinator
4.	2013-14	All HODs & Class Teacher	
5.	2012-13	All HODs & Class Teacher	

Table 5.3.6(n): NSS and Extension services, Independence Day, Republic Day

Sr. no	Year	Name of In-charge	Student Co-nator
1.	2016-17	Mr. A. S. Shrirao, Mr .A. W. Hote	Mr. Aditya Belsare
2.	2015-16	Mr. A. S. Shrirao, Mr. A.W. Hote	Mr. Pratham Kale
3.	2014-15	Mr. A. S. Shrirao	Mr. Pravin Bele
4.	2013-14	Mr. A. S. Shrirao, Mr. A. B. Kharate	Mr. Amol Bendre
5.	2012-13	Mr. A. S. Shrirao, Mr. A. B. Kharate	Mr. Rupesh Shrinath

Table 5.3.6(o): Tree Plantation

Sr. no	Year	Name of In-charge	Student Co-ordinator
1.	2016-17	Mr. A,S. Shrirao, Mr. A. B. Kharate, Class Teacher	
2.	2015-16	Mr. A.S. Shrirao, Mr. A. B. Kharate, Class Teacher	
3.	2014-15	Mr. A.S. Shrirao, Mr. A. B. Kharate, Class Teacher	SRC & NSS Students Co-Ordinators
4.	2013-14	Mr. A. B. Kharate, Prof. R. M. Sahu Class Teacher	
5.	2012-13	Mr. A. B. Kharate, Prof. R. M. Sahu Class Teacher	

Table 5.3.6(p): Daksh band

Sr. No.	Year	In-charge	Student Co-ordinators
1.	2016-17	Prof. H. S. Holey, Prof. R. M. Sahu	Mr. Sumit Basvnate
2.	2015-16	Prof. H.S. Holey, Prof. R. M. Sahu	Mr. Ajinkya Dalvi
3.	2014-15	Prof. H.S. Holey, Prof. R. M. Sahu	Mr. Ajinkya Dalvi
4.	2013-14	Prof. H.S. Holey, Prof. R. M. Sahu	Mr. Shantanu Joshi
5.	2012-13	Prof. H.S. Holey, Prof. R. M. Sahu	Mr. Shantanu Joshi

Table 5.3.6(q): Cultural fest

Sr. No.	Year	Name of In-charge	Gathering Secretary (Student Co-ordinator)
1.	2016-17	Dr. A. B. Raut, Prof. A.E.Bhande	Mr. Pravin Chalisgaonkar
2.	2015-16	Dr. U.A.Kshirsagar	Mr. Sumit Dhonde
3.	2014-15	Prof. M.Mantri, Prof. R. M. Sahu	Mr. Makrand Erandolkar
4.	2013-14	Prof. R.R.Keole	Mr. Nikhil Mathane
5.	2012-13	Prof. R. R. Shelke	Mr. Vaibhav Kalhane

Table 5.3.6(r): Intercollegiate Sports Tournament, Intra Collegiate Sports & games

Sr. No.	Year	Name of In-charge	Student Co-ordinator
1.	2016-17	Mr. Barun Pandwal, Mr. Nahed Mulla, Mr. C.V. Koleshwar	Students Co-Ordinator
2.	2015-16	Mr. Barun Pandwal, Mr. Nahed Mulla,	
3.	2014-15	Mr. Barun Pandwal	
4.	2013-14	Mr. R.V. Barde	
5.	2012-13	Mr. R. V. Barde	

Table 5.3.6(s): Student representative committee (SRC)

Sr. No.	Year	Name of In-charge	Student Co-ordinator
1.	2015-16	Dr. A. B. Marathe, Principal Dr. R. R. Keole, Assistant professor	Mr.Yogesh Shelorkar, Final CSE Jobs Ms.Ravina Popli, Final CSE Gates
2.	2014-15	Dr. A. B. Marathe, Principal Dr. R. V. Barde, Asst. Professor Prof. S. P.Vaidya, Director Physical Education Prof. A.S. Shrirao, Asst. Professor	Ms. Rashmi Gaikwad, Final ENTC Mr. Makarand Erandolkar, G.S.
3.	2013-14	Dr. A. B. Marathe, Principal Dr. R.V. Barde, Asst. Professor	Mr., Rushikesh Joshi , Final year IT Mr. Nikhil Mathane, Final year EXTC (G.S)
4.	2012-13	Dr. A.B.Marathe, Principal Dr. R.V.Barde, Asst. Professor	Mr. Aniket Nimbekar, Third year CMPS Mr. Prasad Tulangikar, Direct Third EXTC

5.3.7. How Does the Institution network and Collaborate with Alumni and former faculty of the Institution

Institute has registered alumni association. This association has been started from 14/12/2009 and registration number of association is MAH/823/09/AMT.

Various programs are arranged under this association like

- Alumni meet,
- Alumni expert guidance to students
- Alumni expert seminars are arranged on recent trends
- Alumni Feedback is taken to improve training and placement activities, to generate awareness related to recent trends.
- Institute has portal through which current students can communicate with

alumni

- Alumni association takes responses from alumni time to time through emails or telephonic talk.

Networking with formal Faculty

- Nomination of formal faculty on governing body, local management committee,
- Inviting formal faculty As visiting faculty,
- Guest for college events, regularly exchanging information through mail.

Mapping of criteria with core values

Criteria	Contributing to nation development	Fostering global competencies among students	Including a value system among students	Promoting use of Technology	Quest of Excellence
5.1.1				✓	✓
5.1.2					✓
5.1.3					✓
5.1.4	✓	✓	✓	✓	✓
5.1.5	✓				✓
5.1.6		✓			✓
5.1.7		✓		✓	✓
5.1.8	✓		✓		
5.1.9		✓		✓	✓
5.1.10	✓		✓		
5.1.11	✓		✓		
5.1.12	✓		✓		
5.1.13	✓		✓		
5.1.14		✓	✓		✓
Criteria	Contributing to nation development	Fostering global competencies among students	Including a value system among students	Promoting use of Technology	Quest of Excellence
5.2.1		✓		✓	✓
5.2.2					✓
5.2.3		✓		✓	✓
3.2.4			✓		✓
Criteria	Contributing to nation development	Fostering global competencies among students	Including a value system among students	Promoting use of Technology	Quest of Excellence

5.3.1	✓	✓	✓		✓
5.3.2	✓		✓		✓
5.3.3	✓				✓
5.3.4	✓	✓	✓	✓	✓
5.3.5	✓		✓		
5.3.6			✓		✓
5.3.7	✓		✓		✓

CRITERION-VI
GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 Institutional Vision and Leadership

6.1.1 State the vision and mission of the Institution and enumerate on how the mission statement defines the Institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, Institution's traditions and value orientations, vision for the future, etc.?

- The institution belongs to a century old a social educational and non-political trust namely Hanuman Vyayam Prasarak Mandal Amravati. It has established its distinctive characteristics of disciplined, national, social, educational, youth centric institution by securing nation's highest awards like "Padma" to three trustees, international recognitions and many national, state awards for its work.

- Same defines the characteristics of college of Engineering & Technology also. Empowerment of student not only to qualify for university degrees but to make them ready for future professional career and a good global citizen is also reflected in the mission statement. The institution is well known for its self-discipline, values and integration and students centric efforts in the state.

Vision and Mission of the Institution are as follows:

Vision of Institution:

"To make this Institute a center of quality technical and professional education, training and promoting research".

Mission of Institution:

1. To offer a well-balanced program of learning in technical and professional education.
2. To provide opportunity for overall personality development, discipline and values in students.
3. To establish linkage with industry and other stakeholders for the promotion of dissemination of knowledge of applied technology, placement of students and continuing education.

Objectives of Institution:

1. To qualify the students for university and other examinations for making them eligible for degrees conferred by university.

2. To provide for research and dissemination of knowledge through instructions, training and education.

3. To take appropriate measures for promoting innovations in teaching-learning process and inter-disciplinary studies and research.

4. To pay attention to welfare of society in general.

5. To inculcate professional and core Employability skills

Table 6.1.1 Professional and core Employability skills

(A) Professional Skills	(A) Core Employability Skills
▪ Identify, Formulate and solve technical/ Engineering problem ▪ Design a system, Components, process to meet desire needs. ▪ Use appropriate/ modern tools, equipment and techniques. ▪ Apply knowledge of mathematics, Science & engineering. ▪ Acquire knowledge of contemporary issues. ▪ Develop creativity.	▪ Integrity ▪ Self-Discipline ▪ Reliability ▪ Self-motivation ▪ Team work ▪ Understanding and taking directions for work assignments. ▪ Willingness to learn ▪ Flexibility ▪ Empathy

Goals of Institute:-

1. To groom various departments laboratories for research programs.

2. To develop thrust areas activities like energy, waste management and green campus.

3. To develop "lifelong learning" activities.

4. To achieve at least 50% placement of students.

Long Term Goal:

▪ To become self-reliant autonomous technical institute with research and development in identified programs and thrust areas.

▪ Institutional long term goal itself is the vision for future development.

6.1.2 **What is the role of top management, Principal and Faculty in design and Implementation of its quality policy and plans?**

Roles of top management:

1. To give the Vision, Mission to the Institute.
2. Strategic planning to achieve the Vision and Mission.
3. Delegation of authorities and Responsibilities to implement the policies.
4. To give organization structure, Infrastructure and provide resources for it.
5. To appraise the progress of Institution regularly and to take corrective actions.
6. To look after welfare and maintain discipline amongst students and Staff.

Roles of the Principal:

1. To give academic and administrative leadership to the Institution.
2. To apprise top management about Norms, Standards, Rules & Regulations of Regulating authorities like All India Council for Technical Education, State Government, Affiliated Universities, Admission regularity Authority and Fees Regulating Authority and to help for necessaries policy decision for its smooth implementation
3. To understand the expectations of Stakeholders viz. Students, Parents, Industry etc need to orient the working of Institutions to make the expectation to the extent possible with the help of Management.
4. To promote comprehensive development of the Institution.
5. To facilitate recruitment of Teaching faculties and supporting staff time to time as per norms of All India Council for Technical Education, Directorate of Technical Education and Affiliated University guidelines.
6. To facilitate the organization of Faculty Development Program and staff development program.
7. To implement faculty staff, student's welfare measures.
8. To conduct College Council Meeting, Student Representative Council Meeting, Local Managing Committee meetings, Governing Body & Coordination committee meetings regularly to monitor, coordinate and effectively manage all college activities.

9. To Plan for campus placements through training and placement officer.

10. To review University results & suggest improvements if needed.

11. Frame the Standard Operating Procedures for smooth conduction of various activities of College.

12. To assign the portfolios at College level.

13. To inculcate innovation in teaching learning, research & development.

Role of Head of Departments:

1. To provide academic and Administrative leadership to the department.

2. To support in administration and management to fulfill vision and mission of institute.

3. Subjects allotment, workload and Departmental portfolio distribution to faculty members well in advance before commencement of each semester.

4. Convene Departmental staff meeting regularly and to give recommendation to College Council/Governing Body/ Local Management Committee for development of the department.

5. Ensure academic discipline in the Department.

6. Optimization of infrastructure and resources used in the Department.

7. Promote innovations in Teaching-Learning Process.

8. To motivate students and faculties for participation in curricular, extra-curricular activities, research and innovations.

9. Expansion in four quadrants like Research and Development, technical activity, social, curricular and co-curricular activity in 360 degree.

10. To follow the rich heritage of Institute and inculcate it among Staff and students.

11. To prepare and implement Departmental budget for each academic year.

Roles of the faculty:

The faculty role generally encompasses three areas of responsibility: teaching, research and administrative support to department and college.

1. To plan and implement effective Teaching- Learning Process.

2. To assess and evaluate the students.

3. To develop resource material and experimental setup in laboratories.

4. To act as a "Mentor" for the group of students who are allotted to him/her

by the Head of Department.

5. Along with the students development, faculty develop themselves by pursuing higher education, research work, participating in various events, competitions, Short Term Training Programs , workshops, Faculty Development Program , Academic Quality Improvement Plan, etc.

6. To participate in social services like blood donation, tree plantation, Swachh-Bharat Abhiyan, National Service Scheme, etc.

7. To handle co-curricular and extra-curricular activities.

8. To follow rules and regulations of the administration, department and institute.

9. To follow the duties and responsibilities assigned by Head of Department/Principal.

6.1.3 What is the involvement of the leadership in ensuring:

1. The policy statements and action plans for fulfillment of the stated mission

2. Formulation of action plans for all operations and incorporation of the same into the institutional strategic plan

3. Interaction with stakeholders

4. Proper support for policy and planning through need analysis, research inputs and consultations with the stakeholders

5. Reinforcing the culture of excellence

6. Champion organizational change.

The policy and action plans for fulfillment of the stated mission are given below.

1. Principal and Heads of Departments are members of all strategy and planning bodies namely Executive council of Trust, Governing Body, Local Managing Council and College council of Institute which develop all policies, long term plans, goals, Vision, Mission, Objectives and Quality for academic excellence and value additions.

2. Head of Department chairs the students- parents meet, Interactions with

Industry, and are In-charges of various events and academic , Curricular and Co- curricular activities

3. Principal, Head of Department and faculty are members of alumni association, meeting of which are conducted bi-annually.

4. Head of Departments identify the need of capacity and capability building for future developments, advancements in their subject. They also coordinate and interact with Industry experts and eminent academician to perceive them to be adjunct faculty or resource person for Faculty Development Program.

5. Principal, Head of Departments and Faculty Coordinates with Training & Placement   cell to promote Training   & Placement activities and to enhance the Employability skill of the students

6. The review and feedback sessions are held at various levels as per the planned schedule.

7. Committees for Redressal of grievances of students.

8. Recommendations and support for awards, appreciations, to students and faculty achiever in academic, Research & Development , Innovations, Cultural events , technical events and Sport events.

Champion of Organizational Change

*   Management, Principal and Head of Departments strive for new methods, automation and computerization of systems by adopting advance Technology.

*   Restructure organization by delegating authorities to bring changes for rapid advancement and to reduce red tapism and bottle necks.

6.1.4   What are the procedures adopted by institution to monitor & evaluate the policies & plans of the institution for effective implementation & improvement from time to time?

Following are the procedures adopted by institution to monitor & evaluate policies & plans of the institution for effective implementation & improvement from time to time:

*   Close interaction with students, parents, industry, alumni.
*   Suggestion feedbacks are discussed in various meetings and decisions are

taken to change if needed.

- Continual review and study of policy decisions of regulating authority and accordingly policy decisions are change suitably

- To review and study various reports, Government Policy decisions which is National Educational Policy, state Educational policy, State University act and regulation. Justice Shri Krishna Committee report. Rajesh Agrawal report on Reform of Exam System Perspective plan of the state and university and accordingly policy decisions are taken in Consonance with above.

- The college conducts periodic meetings to ensure that all the designed policies are executed time to time.

- The management as well as principal meets Head of Department to take a review of their departments.

- A regular meeting is conducted for all faculty members to know about syllabus completion & decide further actions plans.

- Feedback of students is also taken with the help of Student Representative Committee so that their grievances & problems can be easily addressed.

- Monthly academic report by Head of Department is sent to the academic dean who states the number of lectures, assignments given in class, syllabus completed and list of defaulter students.

- For the betterment of students to match the industry expectations, institute takes help of industry experts so that apart from academics, students are updated with recent trends & technologies.

- Submission of annual report by Heads of Departments.

6.1.5 Give details of the academic leadership provided to the faculty by the top management?

- Recognize to the expertise of faculty in his/her subject
- Support and welcomes suggestions , constructive criticism in favor of development
- Support development of faculty for qualification, promotion and interaction with the world.
- Ensure team work and synergy.

- Involvement of faculty in trust technical educational, social and cultural programmes and activities
- Heads of the departments are authorized for designing as well as executing the policies in their departments.
- Faculty is In-charge and members of various academics committees.
- Ensure participation and involvement of stake holders like industry, state policy makers, and university policy makers in faculty conventions for better interaction.

6.1.6 How does the college groom leadership at various levels?

The college groom leadership at various levels in following manner:

At student Level

1. Conducting various events for students by the students like gathering, SIP, Avishkar, sports, cultural fest, National Service Scheme, youth festival and students forum at every department etc.
2. A Class Representative and Girls Representative is selected from each class to monitor class activities.
3. Students have a active participation in college magazine editorial committee
4. Students lead in skill sharpening school conducted by Training & Placement cell

At faculty Level

1. Formation of various committees and portfolio distributions making faculty as in- charge , coordinator for the same
2. Delegation of authority and responsible to various in-charges of all committee
3. Delegation of Financial power to all In- charges within permissible limit
4. Motivation and support during conduct of the event and activity
5. Appreciation and awards for successful conduct of event and activity

Table 6.1.6 Details of various committees for grooming leadership of faculty and   staff

Sr. No	Committees	Convener	Members
1.	Academic Planner diary, Time-table College Prospectus & Information Brochure	Mr. S.V. Khond, Mr. A.S. Shah, Mr. S.V. Dhole	All HOD's, Mr. G.H. Narkhede Mr. N. S. Zade
2.	First Year Admission	Mr. S.V. Khond	Dr. P. K. Sontakke Dr. V. P. Choudhary Dr. V. M.Umarkar Mr. A. S. Shrirao
			Mr.P. R. Deole, Mr. N. G. Manekar, Mr. A.B. Boralkar, Mr. S. S. Laddha, Mr. S. S. Shahane.
3.	Direct II Yr. Admission	Mr.S.V. Khond, Mr. A.J. Khambare.	Mr.Y. R. Rochlani, Mr. A. E. Bhande, Mr. V. S. Gangwani, Miss. Aashna Rukhsaar
			Mr.P. R. Deole, Mr. N. G. Manekar, Mr. A.B. Boralkar, Mr. S. S. Laddha, Mr. S. S. Shahane.
4.	MBA Admission	Mr. S.V. Khond, Mr. A. S. Shah	Mr. Rathi, Mr. Kapadiya
			Mr.P. R. Deole, Mr. N. G. Manekar, Mr. A.B. Boralkar, Mr. S. S. Laddha, Mr. S. S. Shahane.
5.	ME Admission	Mr. S.V. Khond, Mr. A.E.Bhande, Mr. R.R.Keole, Mrs. R.R.Shelke	Mr.P. R. Deole, Mr. N. G. Manekar, Mr. A.B. Boralkar, Mr. S. S. Laddha, Mr. S. S. Shahane.
6.	Higher Class Registration & Admission Committee	HOD's, Class Teachers of Respective Departments	Departmental Staff
7.	Admission Counseling Desk	Ms.H. R. Sojrani, Ms. S.P.Kaware, Dr.V.P.Choudhary , Mr. S. V. Bakale, Ms. S.N. Utane, Ms Aashna Rukhsar	Mr. A. A. Pande
8.	Admission Approval	Mr. S.V.Dhole	Admission Committee

9.	Publicity Committee	Dr. S.P. Chendke	Mr. A. Dupare
10.	Student Facilitation Center	Dr. M.E.Shelke, Mr.S.U. Bande	Mr.P. D. Kaware, Mrs. S. P. Gawande, Mr. A. E. Bhande, Mr. Y. R. Rochalani, Mr. A. M. Madghe, Mr. H. P. Oak, Mr. R. G. Anantwar Mr. S. M. Mandle, Mr . N. S. Guldhe, Mr. A. A. Pande, Mr. S. M. Bagale, Mr. N. P. Karde, Mr. A. E. Shahakar,
11.	SETU (Students E-Tech Unit) Computer Centre & Language Lab.	Mr. A. P. Vartak, Mr. N. A. Rathod	Mr. A. B. Boralkar, Mr. S. D. Gohatre, Mr. B. S. Mahulkar, Mr. S. S. Shahane, Mr. M. V. Sao
12.	Welcome to new admittees	Mr. S. V. Khond, Mr. A. S. Shah, Mr. A. J. Khambre	-
13.	University Examination (Th)	Mrs. R.R.Shelke, Mr. A.B.Potey	-
14.	University Exam.(Practical) & University - Institute Marks Top Colleges	Mr. V.L. Agrawal, Mr. Y. R. Rochlani	-
15.	Other Exams	Dr. R. R. Keole (Online Exam), Mr. A. B. Kharate (Offline)	Mr. A. B. Boralkar Mr. S.B. Pande Mr. S. D. Tiwari Mr. G.H. Narkhede
16.	College Exam Cell	Mr. M. R. Joshi	Coordinator from each department
17.	Central Valuation Centre	Dr. P. K. Sontakke, Ms. S. D. Mahatme	-
18.	Cultural Fest	Dr. A. B. Raut, Mr. A. E. Bhande	As per Event
19.	Intercollegiate Sports Tournament, Intra Collegiate Sports & games	Mr. B. K. Pandwal, Mr. N. N. Mulla, Mr. C.V.Koleshwar	As per Event

20.	Student Medical Test/ Student Physical Test	Mr. B. K. Pandhwal, Mr. K. H. Kapdiya, Ms. S.N. Utane, Mrs. S. P. Gawande, Mr. C. V. Koleshwar	-
21.	NSS and Extension services, Independence Day, Republic Day	Mr. A. S. Shrirao Mr. A. W. Hote	As per Event
22.	Tree Plantation	Mr. A. S. Shrirao, Mr. A. B. Kharate,	All Class Teachers
23.	Disciplinary /(Detention of students)	All HODs	All HODs
24.	Ragging prevention Committee	As per statutory Act.	All HODs & Class Teacher
25.	Hostel Committee	Mr. A. B. Kharate, Mr. C. V. Koleshwar Ms. S. G. Anantwar, Ms. R. P. Bijwe, Ms. C. S. Rathi	-
26.	Training and Placement –I	Mr. A. A. Karmarkar	Ms. P. D. Chowhan (IT), Mr. N. A. Rathod(CSE), Mr. A. A. Tayde(CSE), Mr. A. M. Madghe(ENTC), Mr. H. P.Oak(ENTC), Mr. V. D. Chandane(MBA), Mr. B. S. Mahulkar (TNP Associate)
27.	Entrepreneurship Dev. Cell	Mr. S. S. Rathi	As per event
28.	Statutory Bodies like AICTE, DTE, University	Mr. S. V. Dhole, Mr. M. B. Anasane, Mr. A. J. Khambare	Mr. A.B. Boralkar, Mr. S. S. Shahane, Mr. S. S. Joshi, Ms. K. D. Chimote, Mr. M. R. Dhande, Mr. S. S. Laddha

29.	Internal Quality assurance	All HOD's Dr. M. E. Shelke	Mr. A.B. Boralkar, Mr. S. S. Shahane, Mr. S. S. Joshi, Ms. K. D. Chimote, Mr. M. D. Dhande, Mr. S. S. Laddha
30.	Internal Academic Audit Assurance Cell	Dr. M. E. Shelke	Dr. U. A. Kshirsagar, Dr. A. B. Raut
31.	NBA Accreditation	Dr. U. A. Kshirsagar, Dr. A.B. Raut	Faculty Members of EXTC & CMPS Department
32.	NAAC Accreditation & 12 F 2 B	Dr. P.L. Ramteke	
33.	Alumni Association	Mr. A.A. Karmarkar,	Mr. N. N. Mulla, Mr. K. H. Kapdiya
34.	College Website	Mr. Y. R. Rochlani, Mr. N. A. Rathod	Mr. S. L. Zanwar
35.	Budget Preparation & Departmental	Director, Principal, Registrar, Account Officer	All HODs, Finance & Accounts Department
36.	Professional Societies (ISTE/IEI/IETE)	Dr. M. E. Shelke, Dr. U. A. Kshirsagar, Dr. A. B. Raut, Dr. P.L. Ramteke,	-
37.	College Council	Mr. S.V. Khond	-
38.	Physical Infrastructure & facilities	Mr. A. A. Karmarkar	-
39.	Maintenance, House Keeping and security	Mr. S. V. Dhole Mr. Y. V. Padole Mr. A. W. Hote	Mr. A. H. Anasane (Turner) Mr. P. P. Shinde (Turner) Mr. S. B. Gore (Turner) Mr. S. B. Kale (Turner) Mr. D. D. Zelkar (Plumber) Mr. S. M. Tayde (Plumber) Mr. S. V. Jadhav (Plumber) Mr. N. P. Shinde (Electrician) Mr. S. N. Wasevay (Welder) Mr. R. P. Mathurkar (Welder)
40.	Send off for final Year	Dr. A. B. Raut , Mr. S. S. Rathi	-
41.	Music Club and Dazzler	Mr. R. M. Sahu	-
42.	RRC	All HOD's Dr. R. R. Keole	-

43.	Income Tax Return Calculation	Dr. M.E. Shelke, Mr. A. S. Shah	Mr .V. B. Deshmukh, Mr. N. G. Manekar,
44.	Students Welfare	Dr. M. B. Anasane, Mr. N. N. Mulla	-
45.	Virtual Class room, Digital Library	Mr. A. A. Karmarkar, Dr. M.B. Anasane, Mr. A.P. Vartak	-
46.	Purchase Committee	Director, Principal, Registrar	All HODs & section heads
47.	Library Committee	As per Library Manual	As per Library Manual
48.	College Magazine	Mr. A. B. Kharate	Mr. G. H. Narkhede
	Cultural Club	Mr. M. R. Joshi, Ms. R. A. Wadwekar	
	Tech Buzz	Dr. U. A. Kshirsagar	-
49.	**Domain Specific Technical Training**		
	Software Testing	Ms. P. D. Chowhan	Mr. A. B. Jangid, Mr. P. N. Sanghvi
	RIMM – Remote Infrastructure Maintenance & Management	Dr. A. B. Raut	Dr. R. R. Keole, Mr. Y. R. Rochlani
	Information Security	Mrs. S. P. Gawande	Mr. N. N. Thotange
	Software Development	Mr. A. M. Jaiswal	Ms. A. A. Tayde Mr. S. L. Zanwar
	Big data Analytics	Mr. B. K. Pandwal	Mr. A. B. Potey
	Networking	Mr. A. P. Vartak	-
	Embedded & VLSI	Dr. U.A. Kshirsagar	Ms. J. K. Tapar Mr. M. D. Bharti
	Automations	Mr. A. A. Karmarkar	Mr. C. V. Koleshwar
	Engineering Services (CAD)	Mr. P. R. Jaiswal	-
	Testing	Mr. N. P. Kherde	-

6.1.7 How does the college delegate authority and provide operational autonomy to the departments / units of the institution and work towards decentralized governance system?

The organizational structure* of the college provides towards the decentralize governance system (* Refer 6.2.3)

Delegation of authority and operational autonomy to the department/Units

College provides autonomy to Head of Department in various activities shown below:-

1. Head of Department has all the authority to take decision regarding academics as well as extra-curricular activities of the dept. like internal assessment exams, industrial tours, Short Term Training Program, requirement of consumable, non-consumable items, text books, journals & Periodicals etc.

2. Academic authority for allocation of subjects, preparation and execution of academic time table etc.

3. Financial authority to some extent within the provision of budget.

4. Head of Department is member of selection committee for selection of faculty in department.

5. Innovation in teaching learning process beyond syllabus activities.

6. Disciplinary action against students and staff.

6.1.8 Does the college promote a culture of participative management? If yes indicate the levels of participative management.

Fig. 6.1.8 Participative Management

Participative (or participatory) management, otherwise known as employee involvement or participative decision making, encourages the involvement of stakeholders at all levels of an organization in the analysis of problems, development of strategies, and implementation of solutions. Participative management helps the institution in effective planning and implementation in academic and other activities.

An institute promotes the culture of participative management: The culture of participative management enables all Head of Departments, Deans, all teaching & supporting staff and students to give their advices, suggestions and participates in decision for development of the college. Principal of the institute frequently convenes the meetings with Head of Departments, academic deans, class teachers, faculties, supporting staff of the institute, students and parents. Meetings of all committees are regularly held for policy framing implementation strategy.

Levels of participative management:

- **Governing Body**

Table 6.1.8(a) Details of the Governing Body of Institute

Sr. No	Designation	Name
1	Chairman (Nominated by Trust)	**Shri P. A. Vaidya,** Hon.Gen.Secretary, H.V.P.Mandal, Amravati.
2	Members (Nominated by Trust)	**Dr. S.V. Saodekar,** Vice-President, H.V.P.Mandal, Amravati. **Dr. S. H. Deshpande,** Director, Collegiate Section. H.V.P.Mandal, Amravati. **Dr. Mrs. Madhuri S. Chendke,** Secretary, H.V.P.Mandal, Amravati. **Dr. S.P. Chendke** Vice President, H.V.P. Mandal & Director, HVPM's College of Engg & Tech. Amravati. **Mr. S.V. Dhole,** Registrar, College of Engg & Tech. Amravati.
3	An Industrialist / Technologist / Educationalist (Nominated by AICTE)	**Dr. N. V. Deshpande,** Head of Mechanical Engg. Department,Vishwesvaraya National Institute of Tech. South Ambazari Road, Nagpur.
4	Nominee of AICTE	**Regional Officer** AICTE, WRC, Mumbai (Ex-Officio)
5	University Nominee	**Prof. S.M. Deshmukh.**

		S.S.G.M College of Engineering, Shegaon.	
6	Nominee of State Govt.	**Jt. Director of Technical Education, Amravati Region** (Ex-Officio)	
7	An Industrialist /Technologist / Educationalist (Nominated by State Govt.)	**Mr. Mandar Kulkarni** Director, Cloud & Datacenter Programme Marketing & Operation Microsoft Corp. India Pvt. Ltd.	
8	Principal – Member Secretary	**Dr. A. B. Marathe,** Principal, HVPM's College of Engg. & Tech.Amravati.	
9	Technical Educationalist of the region	**Dr. B.N. Jajoo** Professor (Technical Advisor)	
10	Faculty Member	**Dr. U.A. Kshirsagar** Professor **Mr. S.V. Khond,** Associate Professor.	
11	An Industrialist (Nominated by Trust)	**Mr. P. P. Chendke** **Mr. C. Kajwadkar**	

- **Local Managing Committee:**

Table 6.1.8(b) Details of the Local Managing Committee of Institute

Sr. No	Name	Designation	
1	**Shri P. A. Vaidya** Hon.Gen.Secretary, H.V.P. Mandal, Amravati.	Chairman	Nominee of chairman of Management
2	**Dr. Mrs. Madhuri S. Chendke** Secretary, H.V.P. Mandal, Amravati	Member	Nominee of Management
3	**Dr. N. N. Murkey** Executive Member H.V.P. Mandal, Amravati	Member	Nominee of Management
4	**Dr. Shrikant P. Chendke** Vice President, H.V.P. Mandal & Director, HVPM's, C.O.E& T.	Member	Education & Social work Nominated by Management
5	**Dr. B. N. Jajoo**	Member	Technical Education Nominated by Management
6	**Dr. A. B. Marathe** Principal, HVPM. C.O.E.& T Amravati.	Member	Principal of College
7	**Mr. S. V. Dhole** Registrar, HVPM C.O.E. & T. [Non-teaching representative]	Member	Non- teaching Employee of College
8	**Dr. A. B. Raut**	Member	CSE Department
9	**Dr. U. A. Kshirsagar**	Member	EXTC Department

| 10 | **Dr. P. L. Ramteke** | Member | IT Department |
| 11 | **Mr. S. V. Khond** | Member | 1ST Year Department |

▪ **College council committee:-**

The college council meet convened in an institution twice in a year, at the time of starting and ending of the semester. The meeting is conducted by Mr. S.V Khond in the presence of Ex-officio President Dr. A.B Marathe. Various academic/ non academic agendas has discussed in the said meeting.

▪ **Anti- Raging Committee:**

Table 6.1.8(c) Details of the Anti- Raging Committee of Institue

Sr. No.	Designation	Name
1	Head of Institute	Dr. A.B.Marathe Principal, HVPM's College of Engineering & Technology, Amravati
2	Representative of Civil Administration	Mr. S.G. Rode, SGB Amravati University Engineer
3	Representative of Police administration	P.I., Rajapeth Police Station, Amravati
4	Local Media	Mr. Vilas Marathe
5	NGO	Mr. P.U. Chaudhari, Mr. Ravi Khandekar
6	Faculty Members	Mr. A.B. Kharate Ms. S.G. Anantwar
7	Parents' Representative	Mr.Vivek Marathe Mr. Suresh Bhagyawant
8	Freshers' Representative	Ms. Vaishnavi D. Pande Mr. Vinay M. Bhartiya
9	Rep. of Senior Student	Mr. Shubham Deshmukh
10	Non-Teaching Staff (Registrar COET)	Mr. S.V. Dhole
11	Councilor	Dr. Sudhir A. Borgaonkar Dr. Sunayana S. Borgaonkar

• **Grievance Redressal Committee:-**

The institution also promote the Grievance Redressal Committee, vide SGBAU letter no. SGBAU/8/C/203/2013 Dated:- 29/01/2013.

Table 6.1.8(d) Details of Grievance Redressal Committee of the Institution

Sr.No.	Name	Designation
1.	Dr. S.V. Dudul	Chairman
2.	Prof. P.V. Ingole	Member
3.	Prof. A.P. Bodkhe	Member
4.	Dr. M.S. Ali	Member
5.	Shri. D.K. Joshi	Member

- **Women's Redressal Committee:-**

  College also promotes Women's Redressal Committee for prevention of sexual harassment of women. In pursuance of directions of Hon'ble Supreme Court in the case of Vishaka & ors V/S State of Rajasthan & ors.

Table 6.1.8(e) Details of Women's Redressal Committee of the Institution

Sr. No.	Name	Designation
1.	Dr. A. B. Raut	Chairman
2.	Dr. Madhuri S. Chendke	Member - NGO Helpline
3.	Mr. S.V. Dhole	Registrar

- **Students' Welfare committee:-**

  Institute treats all its student similarly, so that it can solve all their problems and treat them as a single entity. Institute has always empowered them and supported them in all possible ways throughout their journey as a student in a college. This committee includes:-

Table 6.1.8(f) Details of Students' Welfare committee

Sr. No.	Name	Designation
1.	Mr. A.B.Kharate	Coordinator
2.	Mr. P.D. Kaware	Member
3.	Mr. N. N. Mulla	Member
4.	Mr. H. S. Holey	Member
5.	Mr. P.V. Sahare	Member
6.	Mr. V. A. Kakade	Member

- Training and Placement Committee

Table 6.1.8(g) Details of Training and Placement Committee

Sr. No.	Name	Designation
1.	Mr. A. A. Karmarkar	Coordinator
2.	Ms. P. D. Chowhan (IT)	Member
3.	Mr. N. A. Rathod (CSE)	Member
4.	Mr. A. A. Tayde (CSE)	Member

5.	Mr. A. S. Madghe (ENTC)	Member
6.	Mr. H. P. Oak (ENTC)	Member
7.	Mr. V. D. Chandane (MBA),	Member
8.	Mr. B.S. Mahulkar	T&P Associate

- **National Social Scheme Committee**

Table 6.1.8(h) National Social Scheme Committee

Sr.No.	Name	Designation
1.	Dr. A. S. Shirao	Coordinator
2.	Mr. A.W. Hote	Member

- **Student Representative Council Committee**

Table 6.1.8(i) Student Representative Council Committee

Sr.No.	Name	Designation
1.	Dr.R.R.Keole	In-Charge

- **College Coordination Committee**

Table 6.1.8(j) College Coordination Committee

Sr.No.	Name	Designation
1.	Dr. S. P. Chendke, Director	Chairman
2.	Dr. A. B. Marathe, Principal	Member Secretary
3.	Mr. S. V. Dhole , Registrar	Member
4.	Dr. M. E. Shelke, Dean Academics	Invitee
5.	Dr. A. B. Raut HoD. CSE	Member
6.	Dr. U.A. Kshirsagar HoD.EXTC	Member
7.	Dr. P. L. Ramteke HoD, I.T	Member
8.	Mr. S. V. Khond HoD, FYE	Member
9.	Mr.A.S.Shah, HoD, MBA	Invitee
10.	Mr.A.A.Karmarker, HoD, Mech.Engg	Invitee
11.	Dr. M. B. Anasane, Librarian	Invitee
12.	Mr. N. G. Manekar, Account Officer	Invitee
13.	Mr.V. B. Deshmukh , H.R	Invitee
14.	Mr. P. R. Deole, Superintendent	Invitee

- **IQAC Committee Cell**

Table 6.1.8(k) Details of IQAC Committee Cell

Sr.No.	Name	Designation
1.	Dr. A. B. Marathe	Chairperson
2.	Mr. C. Kajwadkar	Industry Member
3.	Dr. V. N. Bapat	Academician Expert

4.	Dr. M. E . Shelke, Dean Academics	Member
5.	Dr. A. B. Raut , HoD, CSE	Member
6.	Dr. U.A. Kshirsagar HoD, EXTC	Member
7.	Dr. P. L. Ramteke HoD, I.T	Member
8.	Mr. S. V. Khond HoD, FYE	Member
9.	Mr.A.S.Shah, HoD, MBA	Member
10.	Mr.A.A.Karmarker, HoD, Mech. Engg.	Member

6.2 Strategy Development and Deployment

6.2.1   Does the Institution have a formally stated quality policy? How is it developed, driven, deployed and reviewed?

- Quality Policy is reflected in vision and mission, goals (short term & Long term) and Objectives of institution

It is developed and driven by

1. Vision and Mission of the trust.(Hanuman Vyayam Prasarak Mandal Amravati)

2. Expectation analysis of important stake holders including students, parents, industry and society.

3. Policies of regularity authorities.

4. Recommendations of College council, Coordination committee of Head of Departments.

Deployment and reviewed of quality Policy

1. Implementation and following of directions , norms, rules & regulation   of statuary and regularity authorities regularity

2. Implementation of quality improvement program for faculty and staff in terms of qualification, special training , deputations to industry , institute of national importance like Indian Institute of Technology, laboratories like National Environmental Engineering Research Institute (NEERI), IBM , Data center

3. Organization and participation in National Conferences , seminar n national International Convention

4. Deputation of faculty to foreign country for International exposure

5. Provision of advance Information and Computer Technology, E-resources, National Program on Technology Enhanced Learning (NPTEL)and other Massive Open Online Course(MOOC) for self-enrichment

6. Recognition and appreciation for excellence and achievement.

7. To deliver the curriculum prescribed by the University in the best manner.

8. To maintain the teaching-learning process innovative and interactive and to ensure an effective relationship between the curricular content and practical applications.

9. To provide value added programs and international certification programs Aspiring Minds Computer Adaptive Test (AM-CAT), to bridge the gap between academia and industry and to make the students worldwide competent and employable.

10. To arrange lectures/extra lectures/Guest lecturers/Expert Talk for the enhancement in knowledge of students.

11. Institute provides CTA (Core Technical Areas) for the students to improve practical knowledge and ability to develop application oriented projects.

Review

- Regular review meetings with Governing Body, Local Managing Committee, Coordination Committee, result analysis, performance appraisal, industry interaction, placement, alumni feed back

6.2.2 Does the Institute have a perspective plan for development? If so, give the aspects considered for inclusion in the plan.

- Yes the Institute has a perspective plan for development
- Norms rules and regulation of regulatory authorities
- Perspective plan for Technical education of state & university
- Strength of trust and Institute
- Demand of students (Trends of admission)
- Resources requirement

6.2.3 Describe the internal organizational structure and decision making processes.

The decision making process of college is at various levels, which shown in the organizational chart -below:-
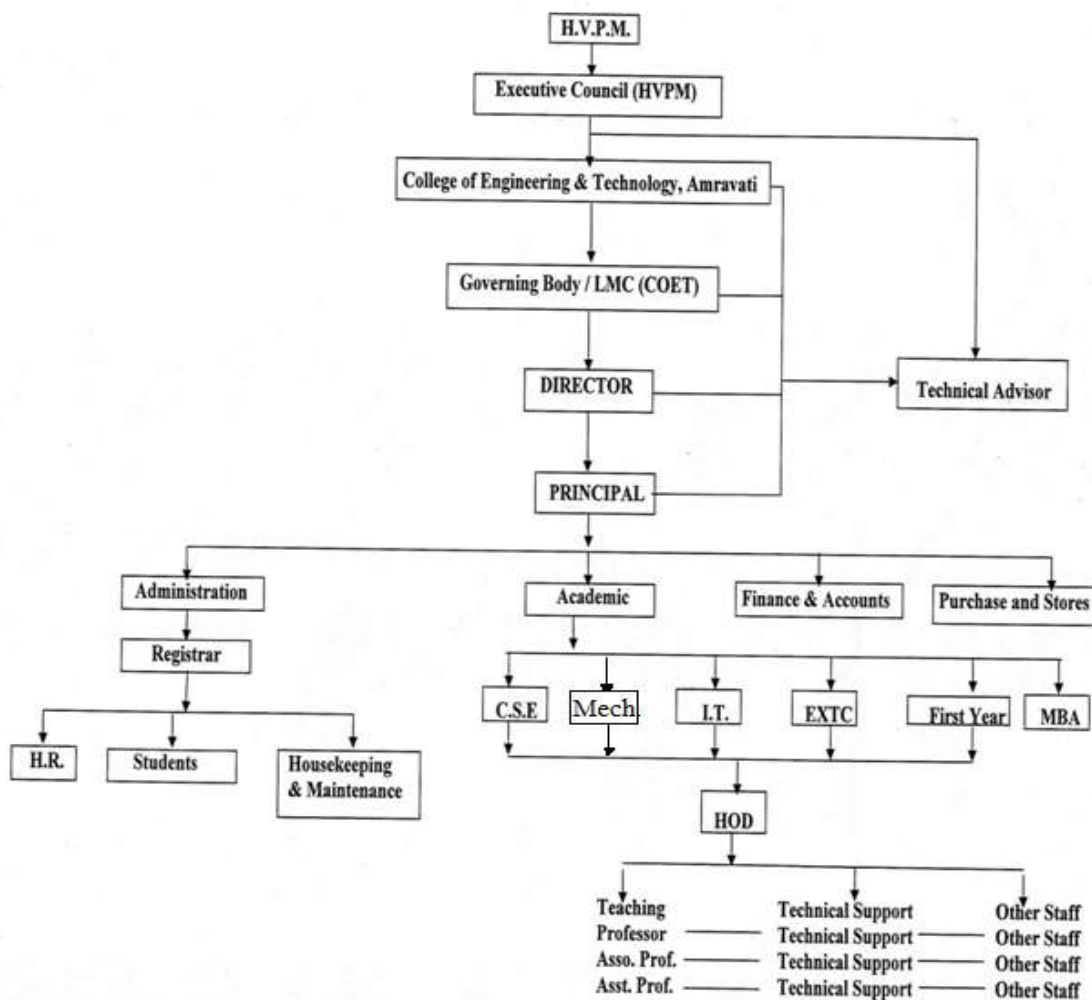
Fig. 6.2.3 Internal Organizational Structure

Decision making process:-

- The internal structure of the College is defined by the rules and regulations of Governing Body/Local Managing Committee of college under overall policy of the Trust.

- Data & Information flow is generally from bottom to top.

- Working and operational decision are taken Section head / Departmental Head/ In- charge

- ▪ The Governing Body of the college takes strategic and policy decisions on the basis on vision and mission of college, All India Council for Technical Education/Directorate of Technical Education/University norms time to time.

- ▪ Also recommendation & suggestion for strategic planning and policy making are made at coordination committee meeting, College council meeting and decision on recommendation regarding strategies and policy are taken at local managing committee or Governing Body of the college and at executive council of Trust depending upon the authority

- ▪ The Academic Deans and Internal Quality Assurance Cell serves as the body, responsible for quality deliberations in all academic matters.

6.2.4 Give a broad description of the quality improvement strategies of the institution for each of the following:

- **Teaching & learning**

1. Systematic academic planning and execution

2. Outcome Based Education system

3. Providing physical infrastructure, Information and Communication Technology infrastructure , Instruments & Equipments ,Ambience, Conducive for quality technical education

4. Intentional Efforts to bring experts eminent academician , social and national leader , International experts to the campus for interaction with students and faculty

5. Continuous quality improvement programmes on advance teaching methodology , advance subject knowledge

6. Feedback from stake holders and its implementation.

7. Strategies for identification and remedial measure for various categories of students

- **Research & Development**

1. Participation in university , state, national level project competition

2. To enhance interaction with research laboratories if Council of Scientific and Industrial Research, Industry like Intel , Research organization like Indian Space Research Organization

3. Conspicuous efforts to invite scientiest, researchers to college campus for interaction and motivation to faculty and students

4. To encourage faculty for Ph.D. and major/Minor Research projects

5. Appreciation /Awards/ Incentive for research and development

6. Organization of Special invited talk on advance technology and expeditions like Space technology, Mission on Mars, Nanotechnology, Internet of Thing, advance software technology ,and big data analysis and stock market

7. **Modernization and removal of obsolesce (MODROB)**

8. **Lab-to-Land projects** for societal benefits viz. eco-bin, plastic compression, solar plant, etc.

- **Community Engagement**

1. Adaptation of villages and camps as National Social Scheme activities

2. Formation of various groups like Srujan.

3. Organization of blood donation camp and making list of blood group donors available for community

4. Participation in social and cultural and community development activity of the trust

5. Awareness camps for cyber security in schools and Junior colleges

6. Awareness programs about educational opportunities particularly Technical Education in villages and tribal areas

7. Making infra-structure available for adjoining Junior Colleges like Ashram School

8. Inviting students of adjoining institutions for solar power plant and science exhibition , project exhibition and competition

- **Human Resource Management**

1. Planning & providing qualified & experience human resources and continual human resource development

2. Ensure high level of motivation and moral of faculty and staff

3. Sympathetic and Empathetic approach towards faculty and staff

4. Performance Based Appraisal System (PBAS)

5. Technical skill training to Class IV employees

6. Career Advancement Schemes and promotional policy

7. Exchange of faculty with foreigner institute

8. Induction Program for newly recruited faculty.

9. Optimum Utilization of Human Resource.

- **Industry Interaction**

1. Enhancement of Industry- Institute interaction through involvement

2. Industry experts in conferences , seminars, convention , as adjunct faculty and as resource person for Welfare Scheme & training programme, Industry visit for students and faculty

3. Development of beyond syllabus, technical skill development course in association with industry

4. In campus and pool campus interviews for students

5. Industrial Training and Internship

6. To seek financial support and assistance under Corporate Social Responsibilities

6.2.5 **How does the Head of the institution ensure that adequate information (from feedback and personal contacts etc.) is available for the top management and the stakeholders, to review the activities of the institution?**

1. The college is located in the one and single campus of office of the trust, Residential premises of top management and working is networked

2. Hierarchical organizational structure of top management (Trust) and institution is very flexible for access and approach to all stake holders

3. A joint meeting of students , parents and faculty is frequently arranged

4. Regular meetings of Principal with top management, being a member of Executive Council of the Trust

5. The activity report are put up to top management

6. Departmental report, College report & Performance based Appraisal report are put up to the top management

7. Capital investment requirement are supported by top management , hence complete information is submitted for approval

8. All payments are made through bank with joint signature of Principal & top management

6.2.6 How does the management encourage and support involvement of the staff in improving the effectiveness and efficiency of the institutional processes?

1. The faculty and staff are involved in strategy and planning policy making decision.
2. Awards, appreciation & Incentives for good performance.
3. Easy access and approach to faculty and staff to top management level and friendly ambiance conducive for effective and efficient working.
4. Faculty, staff & student centric administrations.
5. Support and help in case of emergency.
6. Involving Faculty, staff & student during inter institutional events and trust level activities.
7. Deputation of Faculty, staff & student for international assignment , higher studies, Career advancement programs.
8. Concession in sports to Faculty, staff & student to avail world class facilities like Swimming, health club. Badminton Yoga & naturopathy etc.

6.2.7 Enumerate the resolutions made by the Management Council in the last year and the status of implementation of such resolutions.

- Yes the resolutions is made by the Governing Body in the last year in the

The status of the implementation/Progress is as below

Some of the Resolutions put up before the Governing Body and was approved unanimously.

Perspective Development plan

Table 6.2.7: Perspective Development plan

Sr.No.	Activity(Resolution)	Action Taken
1	Installation of C.C.T.V. camera	Implemented
2	Completion of physical infrastructure like built up area, lab, equipments, teaching aids, library books and periodicals, for existing courses (Mechanical Engineering)	Implemented
3	Faculty cabins, teaching aids, classroom furniture	Implemented
4	Recruitment of faculty as per norms	Completed

5	Development of modernization & removal of obsolesce in department, Library, College. a. Computer to be replace with higher configuration b. Wi-Fi with high speed internet	Continue Process Completed Implemented
6	To organize ISTE 45th National Convention and International Conference	Successfully organize

7	Energy Conservation Methods
	i) Substitution by energy efficient system.
	ii) Power Generation (Solar energy)
	iii) Bio-Gas
		Continuous
		Energy audit done
		50KWh installed
		   Proposal in
		   Progress

8	Development of residential buildings in 2017-18	Yet to start
9	Tree Plantation 300 trees each year	Continuous
10	Library ground floor (new building) in 2017-18	Yet to start

6.2.8 Does the affiliating university make a provision for according the status of autonomy to an affiliated institution? If 'yes', what are the efforts made by the institution in obtaining autonomy?

Yes, the affiliating university has the provision for according the status of autonomy to an affiliated institution.

The efforts made by institutions

1. Permanent affiliation is obtained by the institutions
2. Application for registration under section 2F & 12 B of UGC act is submitted on dated 15/09/2016 and under process
3. Application for NAAC is being made

6.2.9 How does the Institution ensure that grievances / complaints are promptly attended to and resolved effectively? Is there a mechanism to analyze the nature of grievances for promoting better stakeholder relationship?

The institute has three mechanisms to resolve the grievances which are as follows:-

a) **Direct approach for immediate Redressal**

- Class teacher
- Mentor
- Hostel Warden
- Head of Department

- Principal
- Management
- Regular Parents meet

b)   Structured Mechanism

Institute has various committees to resolve the grievances, which are :-

- Governing Body
- Local Managing Committee
- College Council Committee
- Grievance Redressal Committee
- Anti-Ragging Committee
- Women's Redressal Committee
- Students Welfare Committee
- Student Representative Council

c)   Indirect/ Confidential Ways

Institute has some indirect / Confidential ways to resolve the grievances

- Complaint / Suggestion box
- Contact details of management, Principal, H.o.D., Faculty are displayed on College Website and Students Academic Diary

6.2.10 During the last four years, had there been any instances of court cases filed by and against the institute? Provide details on the issues and decisions of the courts on these? There have been no instances of court cases.

-Yes,

By the Institute for NFR (No Fee Reimbursement):-

ISSUE:-

In spite of all regular processing approval by statutory bodies like AICTE, State Government, Affiliated University, the students admitted in the course started in 2014-2015 of Mechanical Engineering, ME were put under No Fee Reimbursement Category were deprived of benefit of all social welfare schemes

DECISION:-

Petitioners /institutes/colleges are entitled for fee reimbursement and all other related benefits, continuously, based upon the earlier Government circular of the policies prior to 9 May2013/2015 May 2013 as per the state scheme

6.2.11 Does the Institution have a mechanism for analyzing student feedback on institutional performance? If 'yes', what was the outcome and response of the institution to such an effort?

Yes, the Institution has a mechanism for analyzing student feedback on institutional performance.

The outcome and response is as follows

1. Provision of Wi-Fi in the campus

2. Installation of separate water treatment & RO plant

3. Additional vehicle parking for Girls

4. Improvement in canteen

5. Installation of sanitary napkin machine

6. Formation of cultural club like "Daksha" Band and "Dazzler" dance group and common movie club

7. Making available newspaper in department along with central library.

8. Improvement in Teaching methodology and use of Information and Communication Technology

9. Inclusion of celebration of various events in curricula and extra curricula activities.

10. Book bank facility available

11. Keeping library & laboratories is open for extra hours and holidays whenever required with, due security

12. Rescheduling of Academic time table and arranging remedial measures

6.3. Faculty Empowerment Strategies

6.3.1 What are the efforts made by the institution to enhance the professional development of its teaching and non-teaching staff?

Professional Development of teaching:-

1. Qualification improvement like Ph.D

2. Career advancement schemes

3. Faculty Development Programme.

4. Motivation for research , Publication, Seminar, Conference

5. Deputation to institution to foreign countries, institution of national importance of India

6. Motivation to be resource person for various workshop, conferences at various colleges.

7. Provide provision of platform for institute of Engineers

8. Encouragement for participation in various committees at universities, State, National, International level

9. Now they are empowered enough to play role as Plumber, Turner, electrician, welder etc.

10. The institute also felicitated them after successful completion of the course.

11. Professional society activities such as Institute of Electrical and Electronics Engineers (IEEE), Institute of Electrical and Telecommunication Engineers (IETE), Institute of Engineers India(IEI), Indian Society of Technical Education (ISTE), Information Systems Control & Audit (ISCA),Computer Society of India (CSI).

12. An International Conference, Indian Society of Technical Education (ISTE)

13.Study leave given for teachers going for higher studies

During last 4 years

Teaching Staff:-

Table 6.3.1.(a) Professional Development of Teaching staff

Professional Development	Activities	Numbers
Qualification Enhancement	Ph. D Awarded:- Pursuing:-	08 05
Patent files	-	05
CAS	Promoted Teachers:-	07
Deputed Out of India:- International Level / National Level/ State level	-	02
Professional Training	National level certification	02
Industry Interaction		40
FDP :- Organized in college Sponsored for outside college		09 09
Paper publish in conference		64

Paper publish in journal		233
Participation in national, International Conferences		118

During last 4 years
Supporting Staff :-

Table 6.3.1.(b) Professional Development of Supporting staff

Professional Development	Activity	Numbers
Qualification and Skill Enhancement/ Staff Development Program:-	Qualification:- Enhanced:- Graduation :- Post-Graduation:-	03
	Skill Enhancement:- Vocational/ Technical training :- Communication skill Training.-	02
	Operation and maintenance training	09

6.3.2 What are the strategies adopted by the institution for faculty empowerment through training, retraining and motivating the employees for the roles and responsibility they perform?

Table 6.3.2: Strategies adopted by the institution and its purpose

Sr .No	Strategy	Purpose
1	Induction Program for newly appointed	Familiarities with policies, procedures, rules etc
2	Orientation Programme for newly appointed	Teaching methodology, Know your Students, Know your Subject, Academic Dairy.
3	Awareness of new teaching methodologies	Workshop, STTP, Expert Talks, FDP
4	Awareness of advanced Technology and changes in subject syllabus	Subject wise workshop, training, expert talk.
5	Industry institute Interaction, Industry visit, inviting industry experts, Industry training	To bridge gap between industry and academy.
6	Study leave, flexibility in workload and timing,, extension of laboratory, internet and library facilities	Qualification Enhancement
7	Appreciation, Felicitation awards	Motivation

6.3.3 Provide details on the performance appraisal system of the staff to evaluate and ensure that information on multiple activities is appropriately captured and considered for better appraisal.

(Performance Based Appraisal system:-)

The factors of PBAS can be summarized as follows:-

Category 1-Teaching-Learning and Evaluation Related Activities

Category 2-Professional Development, Co-Curricular and Extension activities

Category 3-Research, Publication and Academic contribution

Self-Appraisal, Evaluation by Head of Department, Review by Principal and Finalization by External expert with the appraisee. Based on their performance appraisal, the teachers are awarded with incentive which motivate them to improve their further performance.

6.3.4 What is the outcome of the review of the performance appraisal reports by the management and the major decisions taken? How are they communicated to the appropriate stakeholders?

1. Appraise is involved in finalization of Performance Based Appraisal Scheme (PBAS) by external experts.
2. Academic Performance Indicators (APIs) from PBAS are considered for incentives, awards and Career Advancement Scheme (CAS).
3. Visible improvement in performance of faculty due to PBAS.
4. Transparency and development improvement in quality improvement and assurance of working in the institution.
5. Motivate the faculties for active participation in all the development programmes.

6.3.5 What are the welfare schemes available for teaching and nonteaching staff? What percentage of staff have availed the benefit of such schemes in the last four years?

1. Provident fund, Group medical insurance, gratuity, advances in case of emergency, formation of co-op credit society for easy and seamless availability of loan, world class physical fitness facilities, Swimming, Health club, games and sports for faculties and staff.
2. Contributory Provident Fund scheme to the teaching and non-teaching
3. Institute provides Wi-Fi facility for all teaching and non-teaching staff as well as for students in the college premises.

4. Institute also provides concession in sports in premises (Badminton, Basketball, Swimming, Cricket, Football, Tennis, Archery, Malakhamb etc.) to the faculties.

5. Institute provides Group Insurance Mediclaim Policy for teaching and non-teaching staff as well as for their family members.

6. 100% faculties and staff are taking the advantage of Group Insurance Mediclaim Policy.

Table 6.3.5: Name of staff that availed the benefits of Group Insurance Mediclaim Policy in last four years

Year	Beneficiary
2015-2016	Prakash Y Shinde
	Jaya M Bagle
	Haribhau T Narkhede
	Bhaurao R Raghorte
	Madan V Deshpande
	Bakaram S. Kharate
	Prakash R Deole
2014- 2015	Prakash R Deole
	Nemikumar G Manekar
	Manish R Dhande
	Manish R Dhande
	Ganesh N Gaigole
	Ganesh H Narkhede
	Ganesh H Narkhede
	Vijay L Agrawal
	Nilesh P Shinde
	Mohan S Rajgure
	Sameer S Joshi
	Aniruddha A Pande
	Nilesh S Guldhe
	Shripad V Dhole

	Shripad V Dhole
	Vandana M Umarkar
	Ashish B Kharate
	Sanjay N Wasevay
	Santosh U Bande
	Santosh U Bande
	Vandana M Umarkar
	Bhushan D Ghongade
	Manish R Dhande
	Nitin P Deshpande
	Nilesh S Zade
	Manish R Dhande
	Sudhir M Bagle
	Kapil H Kapdiya
2013-2014	Swarit S. Bande
	Swarit S. Bande
	Bhavesh Y. Thakare
	Dhanashree D. Waghmare
	Deepanjali S. Mahindre Takpire
	Dhanashree D. Waghmare
	Ashvini N. Karde
	Pramila D. Dukare
	Samaksh N. Zade
	Radha R. Keole
	Adinath A. Potey
	Pramila D. Dukare
	Rajesh V. Mahulkar
	Champadevi L. Agrawal
	Champadevi L. Agrawal
	Madhukar M. Umarkar
	Jayshri Y. Thakare
	Ku. Aaradhya A. Kharate

	Swarit S. Bande
	Shripad V. Dhole
	Raghunathrao N. Dhande
2012-2013	Chirag P. Shinde
	Sujata D. Mahatme (lawankar)
	Minal S. Rathi
	Swarit S. Bande
	Sudhakar N. Shrirao
	Nilesh S. Kale
	Yeshwant V. Padole
	Prakash R. Deole
	Parth N. Zade
	Virag N. Shinde
	Sujata D. Mahatme (lawankar)
	Pramila D Dukare
	Swarit S. Bande
	Swarit S. Bande
	Ku. Sejal Bhushan Ghongade

6.3.6 What are the measures taken by the Institution for attracting and retaining eminent faculty?

Acknowledging their knowledge and Expertise, the eminent faculty is invited to be a Member of Governing Body.

1. Involving them with students and faculty for discussion, teaching sessions, training programs and competitions.

2. Invited members of organizing committees of national and international conferences

3. Providing comfortable logistics and facilities

4. Offering an honorarium.

5. Inclusion of valuable suggestions and recommendations in policy framing

6. Implementation of their expert guidance, advices and suggestions and to report than back on the outcome.

7. Offering positions of adjunct professors and subject expert/Resource Person.

6.4 Financial Management & Resource Mobilization

6.4.1 What is the institutional mechanism to monitor effective and efficient use of available financial resources?

- Standard Operating Procedures(SOPs),
- Budgeting,
- Control and monitoring by Events/ activity in-charges of the allocated funds.
- Audit by charter accountant

Standard Operating Procedures (SOPs)

There are Standard Operating Procedures (SOPs) for purchases, bill processing and payments.

College Budget:-

The budget is obtained from all departments, as soon as the financial year starts.

The process of preparation and approval of budget is as follows

The subject teacher with the support of laboratory staff prepares budget for individual lab.

On basis of it, HoD propose the budget of respective department to Principal.
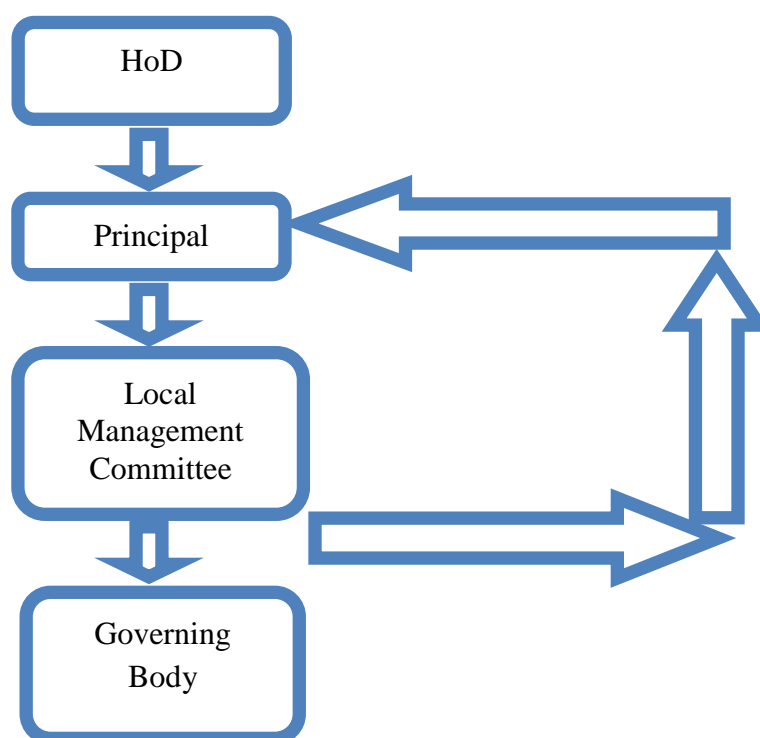
Fig. 6.4.1: Procedure to approve budget

The budgets (2012-2017) are as follows:-

Table 6.4.1: The budget (2012-2017)

Sr. No.	Year	Budgeted Receipt (In Lacs)	Actual Receipt (In Lacs)	Budgeted Payment (In Lacs)	Utilization (In Lacs)	Remark
1	2016-2017	1185.75	Awaited	1185.75	Awaited	
2	2015-2016	1225.58	833.28	1225.58	833.28	Less admissions in various courses
3	2014-2015	1324.46	961.26	1324.46	961.26	
4	2013-2014	926.10	827.04	926.10	827.04	
5	2012-2013	838.71	679.69	838.71	679.69	

Monitoring and control by Event / Activities in-charges:-

There are a number of committees and departments in the college who require finance for extra-curricular and for co-curricular activities. A proposed budget is prepared by them with the consultation of their committee members for the year Principal approves the estimated budget. The activity in charges monitor for effective and efficient use of funds made available for the year.

Audit by Chartered Accountant

Yes. Accounts are audited every year by chartered accountant.

(For details, refer Fig.No.6.4.3 (a) to Fig.6.4.3 (d))

6.4.2 What are the institutional mechanisms for internal and external audit? When was the last audit done and what are the major audit objections? Provide the details on compliance?

- College has appointed Charted Accountant for External audit of institution.
- The last statutory/External Audit was done for the financial year 2015-2016.
- There were no major audit objections.

6.4.3 What is the major sources of institutional receipts / funding and how is the deficit managed? Provide audited income and expenditure statement of academic and administrative activities of the previous four years and the reserve fund / corpus available with Institutions, if any.

The college is self-financed private (Un-aided) institution

1. The major source of receipts is Fees from the students as well as fee reimbursement for reserved category students from Social Welfare Department and Govt. of Maharashtra.

2. Investment for infrastructure is done by the trust.

3. If there is any deficit, then the Parent Trust i.e. Hanuman Vyayam Prasarak Mandal Amravati (H.V.P.M), co-operative credit society provide loan to fulfil the deficit.

4. Reserved fund (Fixed deposit with Directorate of Technical Education, All India Council for Technical Education(AICTE), University)

5. Corpus fund- Nil.

6. Audited income expenditure statement for 4 years.

- **Audited income expenditure statement for 2012-2013.**

H. V. P. Mandal's
College of Engineering and Technology Amravati
Revised Income and Expenditure A/c. for the year ending on 31st March, 2013

Expenditure	Amount Rs.	Income		Amount Rs.
Salary Expenses	43210174.00	Fees from Students	62377575.00	62271109.00
		Less Fee Refunded	106466.00	
Consumable Expenses	437911.00			
Operating & Other Expenses	7465588.00	Bank Interest		32186.00
Administrative Expenses	1278121.00	Other Income		71000.00
Recurring Expenses	3911824.00	Diff. in Trial Balance		0.01
Bank Charges (Scholarship)	1090.00			
Depreciation	3722223.00			
Net surplus tranferred to B/Sheet	2347364.01			
Total Rs.	**62374295.01**	**Total Rs.**		**62374295.01**

Date 09/07/2013

AS PER OUR REPORT OF EVEN DATE
FOR S. S. KHANDEKAR & CO.
CHARTERED ACCOUNTANTS

PROPRIETOR

Fig. 6.4.3.(a): Audited income expenditure statement for 2012-2013

Audited income expenditure statement for 2013-2014

H. V. P. Mandal's
College of Engineering and Technology Amravati
Income and Expenditure A/c.for the year ending on 31st March, 2014

Expenditure		Amount Rs.	Income		Amount Rs.
Salary Expenses		53434768.00	Fees from Students 60186771.00		59819763.00
Consumable Expenses		403857.00	Less Fee Refunded 367008.00		
Operating & Other Expenses		8126654.00	Bank Interest		17902.00
Administrative Expenses		2690707.62	Other Income		150681.00
Recurring Expenses		3074622.00			
Bank Charges (Scholarship)		2657.00			
Depreciation		4382674.34			
Other Expenses		57930.00	Deficit Trf. To B/S		12185523.96
Service Charges	930.00				
CET Exam Expenses	57000.00				
Total Rs.		**72173869.96**	**Total Rs.**		**72173869.96**

Date : 13/6/2014

AS PER OUR REPORT OF EVEN DATE
FOR S. S. KHANDEKAR & CO.
CHARTERED ACCOUNTANTS
Chartered Accountants
Proprietor

Fig. 6.4.2.(b): Audited income expenditure statement for 2013-2014

▪ **Audited income expenditure statement for 2014-2015.**

H. V. P. Mandal's
College of Engineering and Technology Amravati
Income and Expenditure A/c.for the year ending on 31st March, 2015

Expenditure	Amount Rs.	Income		Amount Rs.
Salary Expenses	62120489.00	Fees from Students 85342420.00		84188676.00
Consumable Expenses	716987.00	Less Fee Refunded 1153744.00		
Operating & Other Expenses	7446782.00	Bank Interest		10153.00
Administrative Expenses	1985408.00	Other Income		2038084.00
Recurring Expenses	3895508.00	Dividend		9793.00
Surplus to B/s	10081532.00			
Total Rs.	**86246706.00**	**Total Rs.**		**86246706.00**

Date :23-06-2015

AS PER OUR REPORT OF EVEN DATE
FOR S. S. KHANDEKAR & CO.
CHARTERED ACCOUNTANTS

PROPRIETOR

F.C.A.
M. No.
46469

Fig. 6.4.3(c) Audited income expenditure statement for 2014-2015

▪ **Audited income expenditure statement for 2015-2016.**

Fig. 6.4.3(d) Audited income expenditure statement for 2015-2016

6.4.4 **Give details on the efforts made by the institution in securing additional funding and the utilization of the same (if any)**

Table 6.4.4: Details on the efforts made by the institution in securing additional funding and utilization

Sr. No.	Efforts Made	Funds/Grant sanctioned	Utilized For
01	Corporate Social Responsibility (CSR) provision from corporate	23 Lacs (To be confirmed)	Advanced equipment for High Performance Computations (HPC), Parallel computers, 3D printer, and IOT trainer.
02	PRISM: A Scheme of Dept. of Sci. and Industrial Research	11.37 Lacs	Development of Solid waste management
03	ISTE Convention	6 Lacs	Organization of National convention & Conference
04	MODROB	4.31 Lacs Additionally applied & under Process	Modernization and Removal of obsolesce of existing laboratories
05	GATE Forum Sponsorship	1.25 Lacs every year	Development of resources in Lab. & Seminar hall of

			CSE Deptt.
06	FDP Training by PTU	1 Lakh	Conduction of FDP
07	SGB Amravati University Grant for conferences /workshop	30000/-	Organization of Conferences/workshop at University level
08	Research Promotion Schemes by AICTE	Applied & Under Process	Not Applicable
09	Seminar, Workshops, & Conference Grants by AICTE	Applied & Under Process	Not Applicable
10	Adjunct Faculty grants by AICTE	Applied & Under Process	Remuneration for adjunct faculty

6.5 Internal Quality Assurance System (IQAS)

6.5.1 Internal Quality Assurance System (IQAS)

a. Has the institution established an Internal Quality Assurance Cell (IQAC)? If yes, what is the institutional policy with regard to quality assurance and how has it contributed in institutionalizing the quality assurance processes?

Yes, A committee was functioning for quality assurance since last four years how ever it was formally renamed as Internal Quality Assurance Cell (IQAC) on 30/07/2016. It has following functions.

- Development and application of quality benchmarks/parameters for various academic and administrative activities of the institution
- Facilitating the creation of a learner-centric environment conducive to quality education and faculty maturation to adopt the required knowledge and technology for participatory teaching and learning process
- Arrangement for feedback response from students, parents and other stakeholders on quality-related institutional processes
- Organization of inter and intra institutional workshops, seminars on quality related themes and promotion of quality circles
- Documentation of the various programmes /activities leading to quality improvement.

- Acting as a nodal agency of the Institution for coordinating quality-related activities, including adoption, best practices and information implemented through IQAS cell.
- Development of Quality Culture in the institution.

Institutional policy with regards to Quality Assurance

As stated in vision, mission, goals (short term, long-term) , objectives of the institution

Institutionalizing the quality assurance processes:

- Preparation & implementation of Standard Operating Procedures
- Implementation of Performance Based Appraisal System through identification of Key Performance indicators, quantifying performance parameters, measuring performance and performance appraisal
- Monitoring quality of inputs, processing including T-L processes, administrative 4processes and measuring outcome and taking corrective measures

b) How many decisions of the Internal Quality Assurance Cell (IQAC) have been approved by the management / authorities for implementation and how many of them were actually implemented?

Following is the list of important decisions taken by Internal Quality Assurance Cell IQAC. All decisions taken by the Internal Quality Assurance Cell (IQAC) are generally approved by the management with some modifications.

Table 6.5.1: Decision of IQAC

Decision of IQAC	Management Decision	Status
Finalization of functions of IQAC	Approved	Implemented
To apply for 2 (F) and 12 (B) certification of UGC	Approved	Applied
To apply for NAAC	Approved	Implemented
Application for Research Grants (RPS)	Approved	Applied
Formation of RRC (Research Review committee for PG)	Approved	Implemented
Academic Audit System	Approved	Implemented

Arranging guest lectures and industrial visits	Approved	Implemented
Industry-Institute interaction	Approved	Implemented
Wi-Fi facility in campus	Approved	Implemented
Arranging STTP/FDP	Approved	Implemented

c) Does the Internal Quality Assurance Cell (IQAC) have external members on its committee? If so, mention any significant contribution made by them.

Yes, the Internal Quality Assurance Cell (IQAC) have external members on its committee From industry sector. Mr. C. Kajwadkar, Professional working with Clearing Corporation of India and from academic sector Dr. Vishram Bapat eminent academician.

Significant contribution:

- Set up of modern laboratories with advanced equipments for High Performance Computations (HPC), Parallel Computing, 3D Printer, and IOT training provision through Corporate Social Responsibility (CSR) from corporate.

- Awareness about quality education and quality processes among faculty and staff in T-L Process.

d. How do students and alumni contribute to the effective functioning of the Internal Quality Assurance Cell (IQAC)?

Alumni Association is strong entity with crossing more than 1620 lifetime Members. We take pride in having our alumni working in different array of corporate world, start up and at a very prestigious level.

For the effective functioning of Internal Quality Assurance Cell (IQAC), students and alumni contribute as follows.

- Responses and opinions of the students on various processes, systems and infrastructure are collected in the specified formats, arranging Internship in Industry,

- Industrial live project, arranging session on skill development, enhancing entrepreneurship, expert talk from company, donation of Books & Journals, enhancing professional skill and help for placements.

e. How does the Internal Quality Assurance Cell (IQAC) communicate and engage staff from different constituents of the institution?

Staff from different departments of the institution are engaged by formation of committees for various portfolios. The committees conduct the events for students/staff development contributing quality enhancement.

Effective communication is ensure through notices, publication, college council meeting, co-ordination committee meet and digitally.

6.4.1 Does the institution have an integrated framework for Quality assurance of the academic and administrative activities? If "yes", give details on its operationalization.

Academic faculty & staff has duty and responsibility of both academic & Administration only the degree of with changes from asst. prof to principal.

All college system and process work on integrated framework of academic and administration. **(* Refer Table 6.1.6.1. Grooming leadership of faculty and staff)**

Impact:

1. Winner of best magazine award consecutively

2. Smooth conduct of centralized admission process and approval to the list of admitted students

3. Smooth and flawless conduct of university examination

4. Application & accreditation by National Board of Accreditation (NBA)

5. Formation of Self Study Report committee & Preparation of Self Study Report (SSR)

6.4.2 Does the institution provide training to its staff for effective implementation of the Quality assurance procedures? If "yes", give details enumerating its impact.

College is organizing various training programs for the faculty improvement at college level as well as departmental level. List of some workshops is as follows:

Table 6.5.3: List of some workshops

Sr. No	Year	Name of Activity	Resource Person	Date
01	2012	*Two Days Workshop on Staff Development Programme* for Non Teaching Technical Staff Jointly with H. R. Section of HVPMCOET, Amravati.	Mr. V. B. Deshmukh. Mr. A. A. Karmarkar	11&12 June2012
02	2012	*Two Days Workshop on Staff Development Programme* for Non Teaching Technical Staff Jointly with H. R. Section of HVPMCOET, Amravati.	Mr. V. B. Deshmukh. Mr. A. A. Karmarkar	26th & 27th December 2012.
03	2014	Training for Industry Institute Interaction Program for Identified staff of CSE/IT/ENTC braches	Mr.Shrikant Borgaonkar	4th July 2014.
04		Knowledge Development Workshop For Non teaching Staff	Mr. Mangesh Warkhede (Dy. Registrar SGBAU Amravati) Mr. Vivekananda Kalkar, (Executive Magistrate Dr. Panjabrao Deshmukh Training, Probodini Amravati) Mr. V. B. Deshmukh Adv. Arun Thakare (Income Tax Practioner)	4th April-2016
05	2016	Cyber Security Awareness Program.	Mrs.Deepanjali Kunthe	24th September 2016,
06	2016	On Campus projects.	Mr.Narayanan Ramanathan	14th May 2016
07	2016	The Role and Expectations of Industry in shaping Engineering Education.	Mr.Brain Pereira, Mr.Gajanan Palsule, Mr.Shekhar Patankar, Mr.Vilas	10th January 2016

08	2016	Cyber Security Awareness program by	Mr.C Kajwadkar & Mr.Chaitanya Kunthe	24th September 2016
09	2016	TCS initiative Digital Impact Square – DISQ.	Mr Girish Dandiga	1st & 2nd October 2016,
10	2016	Dhayanachi Sahanirmiti by	Mr Mandar Kulkarni & Dr.Vasudha Kamat	10th December 2016
11	2016	Live session topic on Desh Badal Raha Hai campaign of Smart India Hackathon 2017	Dr.Anil Sahastrabudhe	16th December 2016

(Top of table, continued from previous page:)
Tathavadkar, Mr.Babu Nair, Mr.Anil Mahalle, Mr.T.G Chauragade, Mr. H. D. Aher, Mr. Ravi Eppaturi, Mr.Abhijeet Sen, Mr. P.V. Chepe,

7. **Does the institution undertake Academic Audit or other external review of the academic provisions? If "yes", how are the outcomes used to improve the institutional activities?**

Yes,

Internal academic review

Our college is undertaking internal Academic Audit for the betterment of staff & students. The academic Audit is conducted twice in a year, first during start of term and second in midterm. The academic audit is done on the basis of Course file, syllabus coverage and exam result and attainment. Every academic report is communicated to departmental Head of Department and Internal Quality Assurance Cell for necessary action. This Academic Audit helps the staff members to remain up to date related with teaching learning process, monthly cumulative academic report.

External academic review

- Accreditations by National Board of Accreditation (NBA)
- Performance based analysis final review by external experts
- Local Enquiry Committee by affiliating University

- Inspection /visits of statutory / regulatory body like: Directorate of Technical Education / All India Council for Technical Education/ University

Outcomes used to improve the institutional activities as:

Compliances have to be made to get continuation of affiliation, admission of approval students list and approval from All India Council for Technical Education (AICTE) Observation of National Board of Accreditation committee are gives who overcomethe weaknesses of college.

6.5.5 How is the internal quality assurance mechanisms aligned with the requirements of the relevant external quality assurance agencies/ regulatory authorities?

The Institute's internal Quality assurance mechanisms such as Internal Quality Assurance Cell(IQAC), formal organization structure, statutory committees, and committees to support administrative and academic activities are functioning to fulfill the requirements of All India Council for Technical Education (AICTE), University ,National Board of Accreditation (NBA), Directorate of Technical Education (DTE), Maharashtra Government.

Table 6.5.5: Quality Assurance Mechanism

Sr. No.	Quality Assurance Mechanism	In Consonance with Norms of
01	Infrastructure: No. of classrooms, laboratories, library, computer centre	AICTE
02	Faculty: Number, cadre, qualification as per norms, selection of faculty	AICTE
03	Teacher's work- load	Affiliated University
04	Teaching & Examination scheme including internal assessment	Affiliated University
05	Faculty development	University/AICTE
06	Admissions	State govt. (DTE)
07	Library Infrastructure	University/AICTE

6.5.6 What institutional mechanisms are in place to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?

Table 6.5.6: Institutional mechanisms to review the teaching learning process

T- L Process Step	Reviewed by	Outcomes
Preparation of teaching	HoDs	Planning and target setting

plan, session plan, target for Key performance areas		
KYSS	IQAC	Identification of students and pre-requisite, Course objectives of subjects
Implementation of Plan	Co-ordination committee through 1. Monthly Cumulative report 2. Feedback	Timely corrective measures
Student Mentoring	Teacher Mentors	Response to student's apprehension and enhance learning
Internal Assessment	Subject teacher	Course outcomes
External Assessment	University	Course outcomes

6.5.7 How does the institution communicate its quality assurance policies, mechanisms and outcomes to various internal and external stakeholders? Any other relevant information regarding Governance Leadership and Management which the college would like to include.

The institution communicates its quality assurance policies, mechanisms and outcomes to the various internal and external stakeholders as follows: Vision, Mission, Quality Assurance policies are displayed on the website of the institution. Vision and Mission statements are displayed and published in brochure, teachers/students diary, and circulation areas at prominent places in campus, merit holder students at Sant Gadge Baba Amravati University SGBAU.

1. Publication of academic diary for students & faculties

2. Parent meets

3. Induction programme

4. Visits to industry

5. Publication of brochure

6. Communicate during enquiry committee/ inspection visit from University/ All India Council for Technical Education (AICTE)/ Directorate of Technical Education (DTE)

7. Publicity through electronic & Print media

8. Felicitation Programme

6.5.8 **Any other: About Parent Trust Hanuman Vyayam Prasarak Mandal**

The main building of H.V.P.M Mandal was inaugurated by Mahatma Gandhi on 21 Dec 1926.The movement of physical education in India became at that time indissolubly linked up with national movement of Independence which assumed enormous proportion in the form of non cooperation and civil disobedience in 1921 and 1930.The Mandal also lent its support for the organization of the volunteers Corps that was needed for the discipline organization of national movement in the country. National leaders like Mahatma Gandhi , Pandit Motilal Nehru , Netaji Subhash Chandra Bose , Pandit Madan Mohan , Dr. Rajendra Prasad, Lala Lajpat Rai, and many others were attracted to the activities of the Mandal and had paid visits to its Head Quarters on different occasions. The activities of the Mandal does not remain confined to solitary and disjointed sphere of physical education but became one and unison with the general national movement of renaissance and reconstruction.

CRITERION-VII

INNOVATIONS AND BEST PRACTICES

7.1   Environment Consciousness

The location of institute is in the center of city. Besides having infrastructure as per the necessity for an educational campus, the institute puts in conscious efforts to enhance and nurture the eco-friendly environment on the campus. The campus consists of large number of outdoor, play grounds and open spaces. Faculty and students take up projects to support the maintenance of healthy environment. The institute authorities are very keen on making the campus eco-friendly by adopting energy conservation practices, effective waste management at source, reuse of blank pages, use of renewable energy, rain water harvesting and grey water for plantation inside the campus, making the campus clean, green and healthy. Monitoring and upkeep of the green environment on the campus is done by the maintenance department. University has given the best environment award. The ministry of new and renewable energy (MNRE), Government of India, has sanctioned the conversion of existing campus into green campus.

7.1.1 Does the Institute conduct a Green Audit of its campus and facilities?

Yes, the following green audit steps are undertaken.

1) Energy audit of campus and institutes by professional energy auditing agencies. The MNRE, Government of India has sanctioned funds for the same.
2) Water audit.
3) Study of possibility of implementation renewable energy sources to substitute conventional non renewable sources.
4) Audit of solid, liquid, gases waste.
5) Study of implementation of waste management system.

Since beginning, the institute has maintained hygiene and general cleanliness which are the impressive features of HVPM, COET Amravati campus.

7.1.2 What are the initiatives taken by the college to make the campus eco-friendly?

Following initiatives are taken by the college to make campus Eco-Friendly

Energy Conservation:

The following steps are taken for energy conservation:

1) Energy audit of full campus and institution.

2) Replacements of inefficient warn out water pumps by energy efficient new pumps.

3) No vehicle day on 25th of the month to create awareness about conservation of hydrocarbon energy.

4) Use of natural lighting and air circulation in design of new structure like canteen.

5) Policy is framed to replace energy in efficient system by efficient system like LED lamps energy efficient equipment, use of renewable energy solar street lamp, bio gas for canteen to conserve nonrenewable sources like petroleum fuel and electricity.

Use of renewable energy:-

Solar grid tied photovoltaic power plant is establised on the roof of workshop building which has capacity of 50 KWH. It generates average 250 units of energy per day and Electricity bill of Rs.80000/- per month is saved and thus conventional electricity is conserved.

The details of electricity consumption before and after solar plant are given below.

Table No. 7.1.2(a) : Comparison of consumption of Electricity before and after Solar Plant Installation

Month	Before Solar Plant electricity consumption in 2013	After Solar Plant Installation electricity consumption in 2014	Reduction in electricity consumption	Reduction in B & C zone (9.00 to 18.00Hrs)	% of B & C zone in reduction	Solar power generated
April	87436	71156	-16280	-10157	62%	5630
May	79859	64979	-14880	-8640	58%	5250
June	49012	46392	-2620	-2620	100%	5440
July	84276	65395	-18881	-12054	63%	3999
August	85137	80029	-5108	-4673	91%	5280
September	93883	80796	-13087	-11105	84%	5100
October	76670	56419	-20251	-15049	74%	6210
November	61564	66554	+4990	+144	2%	5580
December	72999	65694	-7305	-6054	82%	6520

Table No:7.1.2(b) Commercial consumption and electricitybill

Bill Month	Units Commercial Consumed	Net Rate Rs. / Unit	Gross Rate Rs. / Unit	Amount of commercial load consumption	Solar Power Units
Feb. 2014					NIL
March 2014					NIL
April 2014	34047	7.65/-	9.00/-	306423	5.63 Mwh
May 2014	26897	7.65/	9.00/-	242073	5.25 Mwh
July 2014	28804	7.65/	9.00/-	259236	3.99 Mwh
August 14	38222	7.65/	9.00/-	343998	5.28 Mwh
Sept.2014	34553	7.65/	9.00/-	310977	5.10 Mwh
October2014	25034	7.65/	9.00/-	225306	6.21 Mwh
Nov.14	28498	7.65/	9.00/-	256482	5.58 Mwh
Dec.14	36599	7.65/	9.00/-	329391	6.52 Mwh

Water Harvesting:
Rain water collection:

Rain water harvesting system is put on rooftop of main building, shed of vehicle cycle stand, canteen building. Rooftop collected water passes through settling tank and over flow of settling tank goes to storage tank and water is used for non potable purpose (washroom). Rain water collected on tin shed of vehicle stand and canteen goes for recharging of ground water /well after filtration.
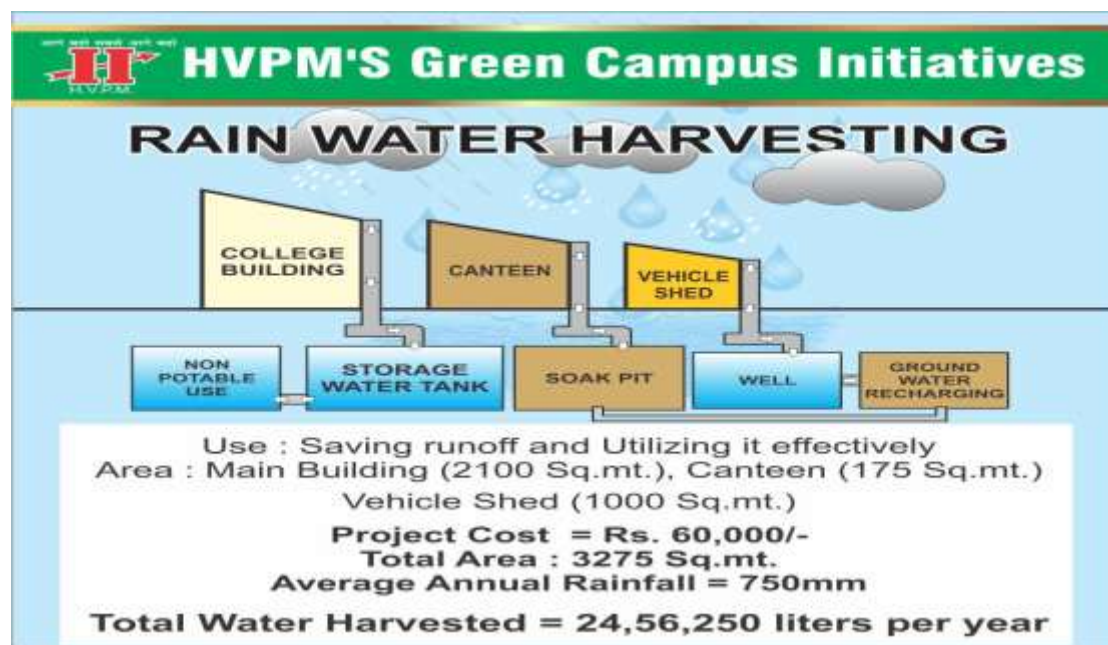
Fig:7.1.1(a) HVPM's Rain water Harvesting plant

Check Dam construction: Two check dams are constructed in the adopted villages under NSS camps in Amravati district. Those dams restrict the flow of canal stream and store water coming from nearby area.

Table No.7.1.2.(c) Details of check dams

Location	Year	Length(Foot)	Width(Foot)	Depth(Foot)
Pada	2012-13	16	5	6
Pada	2013-14	19	6	9
Adgaon	2015-16	10	4	5
Adgaon	2016-17	12	5	6

Village/Slum : Pada (Tq. Nandgaon Kh. Dist.Amravati)
Contact Person: Shri Gajanan Methe
Sarpanch /Village Head : Sarpanch Pada Tq. Nandgaon Kh. Dist. Amravati.
Distance : 12 km

Fig. 7.1.2 (b) Students working for construction of Check Dam

Efforts for Carbon Neutrality:

NO VEHICLE DAY

The Green Campus initiatives like No Vehicle Day show our commitment for environment too. Shree HVPM Campus observes 25th of every month s 'no-vehicle day' in the college campus strictly with an objective to reduce pollution level and traffic congestion. The main objective of implementing "No Vehicle Day" is to reduce green house gases (GHG) for averting climate change, promoting sustainable transport giving importance to energy efficiency for a good cause.

Fig. 7.1.2 (c) Efforts for Carbon Neutrality

Plantation:

Tree plantation is regular activity under NSS Life Long Association through Plantation (LAPTOP) scheme. Saplings are planted every year during rainy season on Independence day, Teachers' day, Engineers' day by newly admitted students in association with NSS volunteers. The team takes care of saplings during course of their study. Finally during sendoffs in their final year of study, team members are felicitated. Plantation is also done at adopted village where residential NSS camp is held.
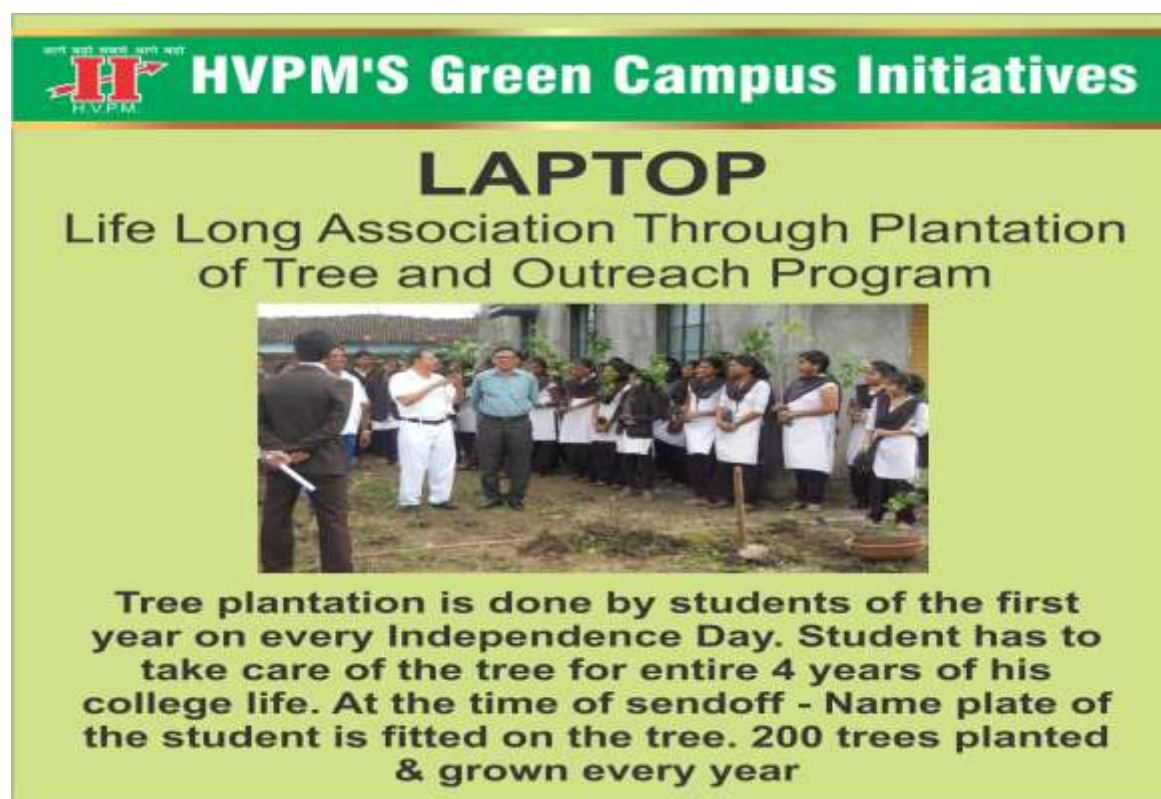
Fig.7.1.2 (e) Tree Plantation under LAPTOP Scheme

The following table shows yearwise plantation of saplings.

Table 7.1.2(d) Yearwise Tree Plantation

Place/Year	2013	2012	2011	2010	2009	Before 2009
Engineering	483	439	319	412	416	341
HVPM	1585	1166	706	423	252	469
Other	426	559	633	323	238	812
Total	2494	2164	1658	1158	906	1622
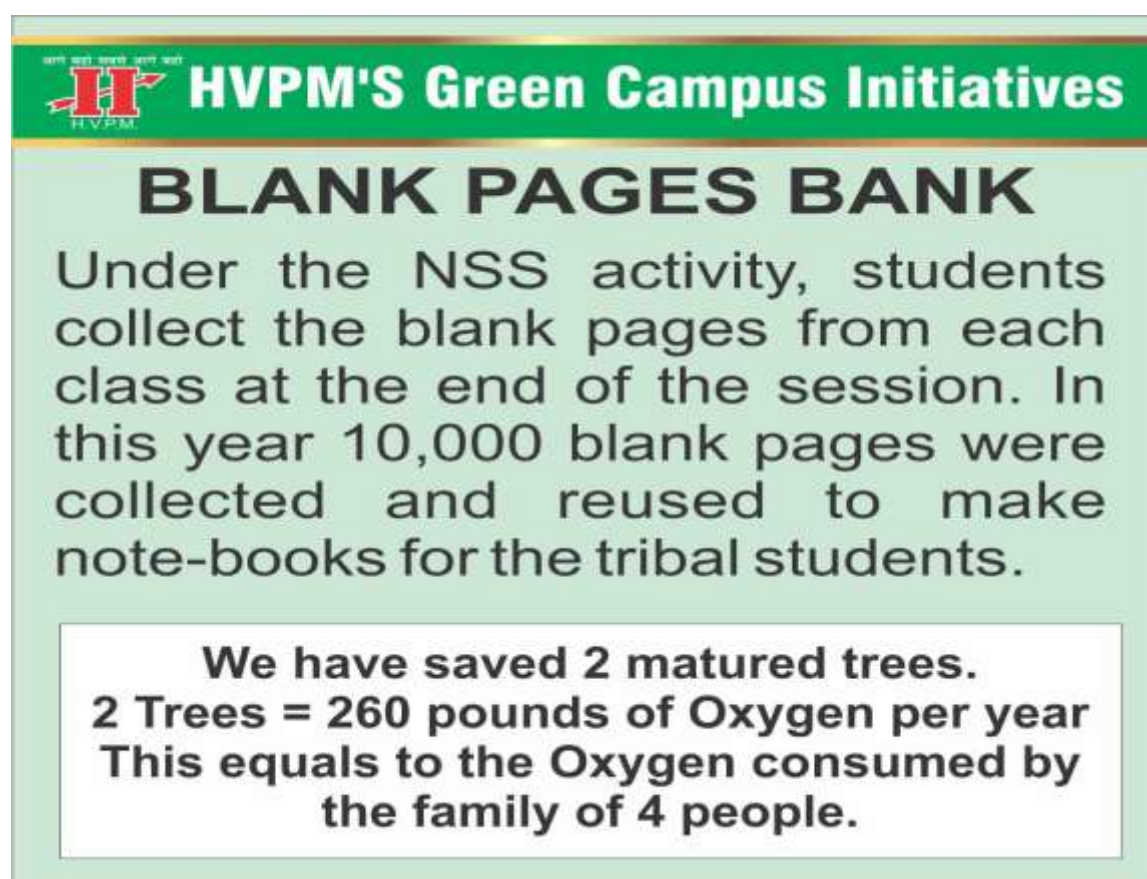
Fig.7.1.2 (f) Blank Page Bank

Hazardous Waste Management:

Plastic Waste Management:

Use of plastics in the form of packaging materials, wrappers, carry-bags and other commodity items has become an integral part of daily life in college campus. The thin, low density (High Volume-Low Weight) plastics become not only eye soar in the college campus but also cause great nuisance to public at large. It flies all over and creates pollution.

Thus college has taken a step forward and adopted **'3 R'** principle for plastic waste management.

Reduce → Recycle → Reuse

Fig. 7.1.2 (g) Plastic waste Management Unit

The volume of the waste is reduced by 85 to 90% which makes the waste recyclable for reuse.

E-Waste Management:

The obsolete electronic gadgets, instruments which become non-functional and non-repairable items are brought to project lab., where some non-functional devices and component are repaired if possible to reuse for demonstration kits. At times, decorative articles and art work is performed by the students.Other useless items are scrapped and taken away by vendors.

7.2. Innovations

7.2.1 Give details of innovations introduced during the last four years which have created a positive impact on the functioning of the college

Table 7.2.1 Innovations introduced by the Institution during last four years

Sr. No	Innovational Area	Impacts
1	**Technological innovation in:** -Waste Management -Organic waste Management -Lab. To Land Projects -Indian Nano Electronic User -Programme (INUP), Hackathon Projects,Texas,Avishkar Projects	• Municipal solid waste management implemented by AMC • Funded by DSIR and implemented by AMC • Utilization and effective teaching

		-Digital Impact Square Projects Smart Watch for Getting 'Being Watched'	• Faculty exposure to advance technology
2		**Academic Innovation in:-** Teaching-Learning Process-Student's diary, teacher's diary, Know Your Student, Know your subjects. **-** Buddy schemes of training **-** Kiman Kaushalya Vikas Yojana (KKVY) -Flipped Learning **-** Beyond syllabus, Training in CTA - Innovation in evaluation	• Prizes in Avishkar at University level • Selected for national competition (Hackathon), DISQ of TCS • key performance indicator identification and effective Teaching-Learning Process • co-operative, collaborative learning Induction programme for new faculty, Staff and students.
3		**Administrative Innovations in:** -Display of pending work before each section -Creation of student e-tech support unit (SETU) -Student's participation in office of student section in earn-learn scheme	• Minimum competency skill development (Scheme for class-4 peon became skill attendant) • Self learning, over spoon-learning(Self-learning) • Enhance employability skill, and Industry-Instt. Interaction • Student centric T-L Process
4		**Other Innovations in:** -Involvement of students for cyber security for in particular girls -Blank pages bank -Yoga and self-defence training -No vehicle days -College social responsibilities **-** Formation of groups like SRUJAN , DAZZLER, DAKSHA band for music. - Organization of every event including theme based	• reduction in pending work • Accurate & fast processing of students data for regularity authority, employer and other stake holder • harmony between staff & students, reduction in students grievances • Minimising waste of paper • Confidence in stealing in students • Carbon neutrality • Awareness in society , support to society • Sense of belonging & awareness • Channelizing youth energy positively • Purposeful & outcome based events

7.3   Best Practices

7.3.1 Elaborate on any two best practices in the given format at page no.98,which have contributed to the achievement of the Institutional Objective sand/or contributed to the Quality improvement of the core activities of the college.

Following are the best two practices with respective to the achievement of the Institutional Objectives to the Quality improvement.

- **Best Two Practices**

   1. **Title of the Practice:** Skills enhancement program for employment ready graduates

Goal:

It is undeniable revelation that 60 % of engineering graduates are not employable for the industries. The gap between university curriculum and dynamic expectation of industries is one of the causes of the same. While university curriculum is based upon the fundamental   principles of science and engineering, the industry expect ready employable fresh graduates to start working immediately. The principle and concept of the practice of employability enhancement skill is to inculcate communication skill, soft skill and domain specific technical skill as per expectation of industries and in association with the industries. The same is evident in vision, mission, objectives and goals of the institution.

The Context:

Features of the practice are to bridge gap between industry's expectation from fresh engineering graduates and graduates attributes acquired after undergoing university curriculum and syllabus. Due to the best efforts by the college, students get qualified to seek university degree with flying color through university curriculum and syllabus. Even though the same is necessary to get befitting employment in industries but it is not sufficient as per industry's bench mark. To mitigate the challenges, it is necessary to identify the gap precisely and correctly to develop mechanism and structure to bridge it. To Frame and implement 'Beyond syllabus course contents' of required skill set is the motto of practice.

To implement the scheme, following process/ steps are taken:

- To identify industries who would support the initiative.

- To interact and to create confidence about the Institute and the proposal

- To identify the gap between University Curriculum and Industry expectations

- To design the curriculum, syllabus, scheme of training

- To get it validated from Industries

- To identify internal & external resources to implement the scheme

- To motivate & train the identified internal resources

- To identify and motivate the students who undergo beyond syllabus activity with focus and discipline

- To involve Industry for training, internship and evaluation

- To market the practice to user Industry

- To arrange for placement drives

The placement brochure containing details of information about practices is published and circulated to user industries. Head of Department, faculty and training and placement officer (TPO) visit the industries and arrange for campus placement drives.

The Practice:

In this activity, training is provided to students through CTA in various domains.The core technical areas for information technology include software testing, software development, information security, Remote infrastructure maintenance and management, networking. The core technical areas for electronics and telecommunications includes Embedded with IOT, MATLAB programming. The core technical areas for mechanical engineering includes Automation, engineering services (CAD), Testing. Under CTA, different activities are conducted like foundation course for third year, Summer Internship Program and Advance course for final year. The live interaction with industry personnel is done through Skype session as well as through personal interaction. The structure of CTA is depicted below.
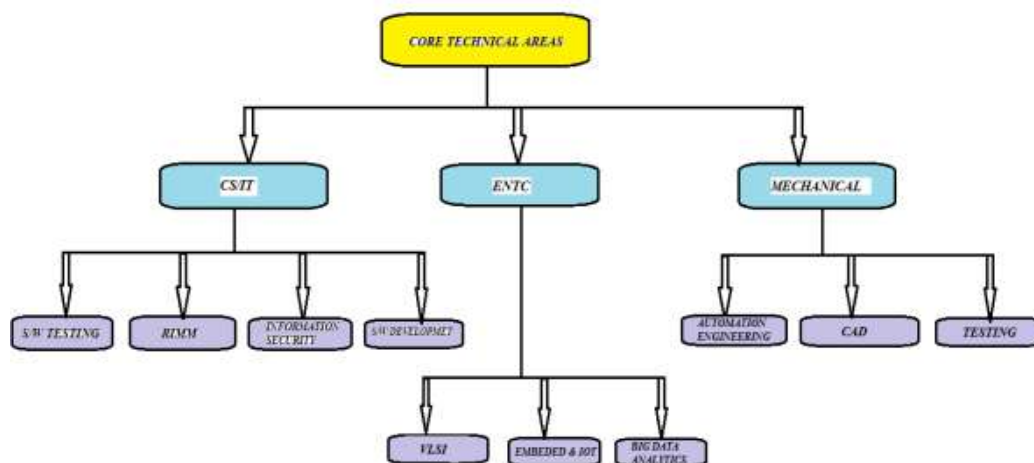
Fig.7.3 Structure of CTA

Evidence of Success

Identified Performance Indicators are:

1. Visible improvement in Communication and soft skill.

2. Improvement in post training performance test over the pretraining test

3. Feedback from (external) Industry Expert.

4. Campus placement.

5. Project performance in various competitions at university, state and national level.

6. Internship projects and evaluation by industry experts.

7. Academic projects and evaluation by university examiner.

   Results: The participation and involvement of industries in designing, validation and implementation of course content as well as providing internship and evaluation of project is over whelming.

   The placement records prove that the selection of CTA undergone students is much higher.

   The feedback from industries about the performance of CTA undergone students is at par with one year industry trained graduates.

   It can be inferred that the project and practice of CTA gives industry acceptable employable fresh Engineering Graduates which confirms the bridging of gap between Institute outcomes and industry expectations.

Problems Encountered and Resources Required

The following problems or constraints were encountered during conceptualization, design, validation & implementation of the practice/project:

1. To access and to get sufficient time slot of industry experts and to incite interest about the concept.

2. To identify the gap between expectation of the industries and the graduate attributes of college students.

3. To design curriculum and syllabus to bridge the gap.

4. To get validation of the curriculum syllabus and implementation scheme from industries.

5. To identify human resource from the college to motivate them for extra responsibility and expected outcome.

6. To make faculty realized the requirement of additional training for them to acquire new set of skill and knowledge.

7. To identify external resource to compliment and supplement the practice with industries perspective practices.

8. Constraints of financial resource for training and development of in house faculty by deputing them at industries or institution of higher learning or professional, also financial constraints for hiring professionals. However, Industry's experts were kind enough to make them available through virtual set-ups as well as physically sparing their valuable time by providing logistic and local hospitality.

9. The marketing of practice with user industries.

10. The long university examination schedule, delay in university exam result and academic calendar posed constraints for such beyond syllabus activity.

Notes

The success of practice has encouraged us to start beyond syllabus employment enhancement skill development courses in addition to CTA. We started with the courses of software testing, information security, remote infrastructure monitoring and management and android development area but the response and employability development in students motivated us to add other areas of cyber forensic and security, embedded system, IOT as top up to all CTA, big data analysis, VLSI &

automation for mechanical and electronics courses, management of family business are being started for MBA.

Summarizing, the institute aims to develop the students not only to qualify for university degree in flying colors but also to prepare them for professional reality i.e. future ready.

1. **Contact Details**

Name of the Principal : Dr. A. B. Marathe
Name of the Institution : HVPM's College of Engineering and Technology,
                          Amravati.
City   : Amravati
Pin Code   : 444605
Accredited Status   : Courses accredited by NBA, validity up to
                         2015-2016 (Refer **ANNEXURE-IV**)
                         1) Computer Science & Engg.
                         2) Electronics & Tele – Communication Engg.
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2. **Title of Practice**: Innovative projects for inculcating the spirit of research & development

Goal:

The application of knowledge and skill for solving real life problems is the main job profile of professional engineers. Mini and major projects carried out during course of study, give an opportunity to acquire the skills of application of principles of science and engineering. The engineering solution has to be economical, optimum, societal and environmental friendly and most importantly innovative .The attributes of aptitude for innovative, critical and creative thinking is a challenge. Institution consciously works for innovative projects to train the young minds to be future ready through the practices. Teachers also gets oriented towards research and development, publications & patents.

The context:

The inculcation of research culture, critical and creative thinking, sensitization towards social and environmental issues for which optimal solution can be found using technology is a challenging task. The implementation of practice involves team of Heads of Department, young enthusiastic faculty, Training and Placement officer, interaction with industry experts and researchers. The identification of statement of problem itself is a challenge. The present education system is tuned with writing answer script for the expected questions either from old question paper sets or text books, while engineering always encounter with unexpected challenging problems which are required to be solved under constraints of time, human and financial resources. To give, this real life experience through innovative projects posed many challenges during implementation of the schemes.

Practice:

A team of teachers from various technical domain areas and interest are identified to lead the group. The faculty is expected to advise, guide and facilitate project development with students. The faculty is given special training either in house or by deputing at industries, institute of higher learning or training centre. The students are identified on the basis of detailed analysis of their academic background, area of interest, flexibility to learn, attitude to accept challenges. They are groomed by giving beyond syllabus core technical area knowledge and skill through a structured program of about 120 hrs during third year of study. The industry inputs are also sought during training of the students. The statement of problems are identified from various sources like industry, analysis of social needs, thrust areas like clean energy, digital India, safety and security of women and as given by various State and Central Ministries on their website. A team of faculty and students design and develop the solution which is implemented as prototype. The projects are evaluated by industry, during various project competitions at inter collegiate, inter university, state and national level.

The practice becomes the novel teaching learning process also as the concept of self learning, flipped learning, cogeneration of knowledge, participative and collaborative learning experience result in novel ideation and optimal solution for real life problems.

5) Evidence of Success

The practice of development of innovative projects on real life problems is proved to be successful from following results:

- Lab to land projects.
- The projects developed on organic solid waste like waste from vegetables, fruits markets and eating houses is implemented by Amravati Municipal Corporation successfully. The project is based on solid waste management rules and regulates in 2000, 2004, 2016. It is decentralized waste management system giving wealth from waste.
- Innovative project on plastic waste management system is also developed and implemented by the Amravati municipal corporation at Sukali waste depot.
- Senior faculty member of the institution is selected for Nano technology based innovative project development at IIT Bombay laboratory.
- The faculty with teaching staff of the college is also working on innovative projects under the same scheme of Government of India at IIT Bombay. The innovative projects are successfully developed and patents are published on the work.
- The senior Students undertake mentoring and conduct training & competitions for junior students on the same concept & process.
- The faculty and students have successfully developed innovative projects on advanced technology and received awards in inter collegiate research project competitions "Avishkar" of affiliating University.

Table No.7.3.(a) Awards / Recognition received by Faculty

Sr. No.	Department	Name of Faculty	Name of Award/ Recognition	Type (National/ International/ Institute)	Year
1	CSE	Prof. A. M. Jaiswal	Winner at Avishkar SGB Amravati University	University	2016-17
2		Prof. J. I. Syed	Winner at Avishkar SGB Amravati University	University	2015-16

3		Prof. Y. R. Rochlani	Winner at Avishkar SGB Amravati University	University	2014-15
4		Prof. N. A. Rathod	Winner at Avishkar SGB Amravati University	University	2012-13

Table No.7.3.(b).: Awards / Recognition received by Faculty

Sr. No.	Department -	Name of faculty	Awards	Awarding organization	Type (National/ International/ Institute)	Year
1		Prof. V. L. Agrawal	Avishkar	SGBAU, Amravati	University	2017
2	EXTC	Prof. H. P. Oak	Avishkar	SGBAU, Amravati	University	2016
3		Prof. J. Tapar	Avishkar	SGBAU, Amravati	University	2015

Table No.7.3.(c).: Awards / Recognition received by Faculty

Sr. No.	Department	Name of the Faculty /PhD Scholar	Name of Award / Fellowship	Type (National/ International/ Institute)	Year
1.	IT	Dr. P. L. Ramteke	Avishkar	University	2014-15
2.		Prof. P.D.Chowhan	Avishkar	University	2014-15

Table No.7.3 (d) Student Awards

Sr. No.	Name of Student	Name of Award/ Recognition	Year
1	Ms. Reshma Vishakarma and Ms. Swati Wannalikar	1st Winner in Avishkar at HVPM COET Amravati	2014

- AICTE has announced world's largest innovative project competition Hackathon 2017. In this, more than 7000 institutions across India have participated and about 1100 projects are shortlisted for final round of competition which will held shortly. The innovative idea of students and mentors of our college on the theme of "Smart watch for being watched" for the security of women and children is shortlisted for final round.

- A Project team of Third year students is also shortlisted in Texas All India Level Project competition.

- The Students have developed innovative projects during internship on the problem statement given by industries.

6) Problems Encountered and Resources Required

- The change of teaching learning process of the technical education system is the challenge as it requires motivation and persuasion of the faculty and students to go beyond university curriculum and syllabus.

- Support from industry to identify the real time problem, valuation and validation of innovative solution is another challenge of the practice.

- Training of faculty for domain specific skills and opportunity for exposure in advanced technology laboratories pose challenges.

- Financial resources to create facility of experimentation for innovative projects is also the challenge.

- However, all problems and challenges are overcome with clear vision and determined efforts.

- Cogeneration of knowledge is achieved through the practice.

Notes:-

- Liberal funding and support to the institution with proven track record of such innovative practices will also be beneficial to society, industries and all stake holders.

- National networking of research facilities with easy access will be beneficial for young innovators.

Contact Details

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Accredited Status   : Courses accredited by NBA, validity up to
                           2015-2016 (Refer **ANNEXURE-IV**)
                           1) Computer Science & Engg.
                           2) Electronics & Tele – Communication Engg.
    Work Phone   :   (0721)2563422
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    Mobile   :   9850268814

Evaluative Report of
Computer Science and Engineering Department

1. **Name of the department:** COMPUTER SCIENCE AND ENGINEERING

2. **Year of Establishment:** 2002

3. **Names of Programmes/Courses offered (UG, PG, M.Phil., Ph.D, Integrated Masters; Integrated Ph.D, etc.) :** UG and PG
   UG: Bachelor of Engineering (Computer Science and Engineering)
   PG: Master of Engineering (Computer Science and Engineering)

4. **Names of Interdisciplinary courses and the departments/units involved:**

Sr. No.	Department	Year	Semester	Course
1.	Applied Science & Humanities	FIRST	I & II Group A	Applied Mathematics-I
				Engineering Mechanics
				Applied Physics
				Engineering Drawing
			I & II Group B	Applied Mathematics-II
				Applied Chemistry
				Electrical Engineering
				Computer Programming
		SECOND	III	Applied Mathematics-III
			IV	Environmental studies
		THIRD	V	Communication Skills
2.	Electronics & Telecommunication	SECOND	III	Electronic devices & circuits[3KS03]
		SECOND	IV	Analog Digital Integrated Circuits[4KS02]
3.	Information Technology	THIRD	V	Introduction to computer Network [5FEIT05]
		THIRD	VI	E-commerce [6FEIT05]

5. **Annual/semester/choice based credit system (programme wise)**

Sr. No.	Programme Name	System Pattern
1	UG programme	Semester - Pattern (Credit based system)
2	PG programme	Semester - Pattern (Credit based system)

6. **Participation of the department in the courses offered by other departments:**

Sr. No.	Department	Year	Semester	Course
1.	Applied Science & Humanities	FIRST	I & II GROUP B	Computer Programming
2.	Information Technology	THIRD	V	Data communication & Networking[5FEKS05]
3.			VI	Database Management System [6FEKS04]

7. **Courses in collaboration with other Universities, industries, foreign institutions, etc.:**

Sr. No.	Organization	Duration	Faculty Co-ordinator	Industry Expert
1.	RIMM(Remote Infrastructure Monitoring & Management)	80 hours	Dr.A.B.Raut Mr.Y.R.Rochlani	Mr.Mandar Kulkarni
2.	Software Development	90 hours	Mr.A.M.Jaiswal	Mr.C.Kajwadkar
3.	Software Testing	90 hours	Mr.N.A.Rathod	Mr.Taral Shah
4.	Network Security	60 hours	Ms.S.P.Gawande	Mr.C.Kajwadkar
5.	Asp.net	60 hours	Mr.P.D.Kaware	Mr.Ashok Saraf
6.	Android development	60 hours	Mr.V.S.Gangwani	Mr.Ashok Saraf

8. **Details of courses /programmes discontinued (if any) with reasons:**

- NIL-

9. **Number of teaching posts**

	Sanctioned	Filled
Professors	03	01
Associate Professors	06	01
Assistant Professors	16	20
Adjunct Faculty	05	05

10 Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./ Ph.D./M.Phil.etc.)

	Name	Qualification	Designation	Specialization	No. of Year of Experience	No. of Ph.D. students guided for the last 4 year
	Dr. Anjali B. Raut	M.E (CSE), Ph.D.	Professor	DBMS , Data Structures , Data Mining, Web Mining , Machine Learning	22	Nil
	Ms. Karuna G. Bagde	M.E (CSE). M.Phil.	Associate Professor	Operating System , Algorithmic	10	Nil
	Mr. Abhijeet B. Potey	M.E(CSE)	Assistant Professor	Operating System, Internet Technology	13.5	Nil
	Mrs. Rajeshri R. Shelke	M.E(CSE), Ph.D. (pursuing)	Assistant Professor	Data Mining	9	Nil
	Ms. Sonali Deshpande	ME(CSE)	Assistant Professor	Data Mining, Data Structure, Computer Networking	9	Nil
	Ms.Rashmi P. Bijwe	M.E(CSE)	Assistant Professor	Data Structure, Computer Networking	6	Nil
	Mr. Nachiket A. Rathod	M.E(CSE)	Assistant Professor	Computer Networking	5	Nil
	Ms. Prajkta P. Chapke	M.E(CSE)	Assistant Professor	Data Mining	8	Nil
	Ms. Rupali R.Deshmukh	M.E(CSE)	Assistant Professor	Web Mining	8	Nil
	Mr. Yogesh R. Rochlani	M.E. (CSE)	Assistant Professor	Discrete Structure, Operating System	4	Nil

	Mr. Ritesh G. Anantwar	M.Tech. (CSE)	Assistant Professor	System Software, Artificial Intelligence	2.5	Nil
	Mr. Pravin D. Kaware	M.E(CSE)	Assistant Professor	Data Mining, Data Communication , ALP	7	Nil
	Ms. Poonam A. Manjare	M.E(CSE)	Assistant Professor	Web Mining	4	Nil
	Mr. Akhil M. Jaiswal	M.E(CSE)	Assistant Professor	Digital Signal Processing, Embedded System, Data Mining	4	Nil
	Ms. Sneha Kaware	M.E(CSE)	Assistant Professor	Mobile Computing	4	Nil
	Ms. Javeriya I. Syed	M.E.(CSE)	Assistant Professor	Data Mining, EDC	2.5	Nil
	Ms. Trupti Ghongade	M.E. (CSE)	Assistant Professor	Computer Networking	3.5	Nil
	Ms. Harsha Sojrani	MBA	Assistant Professor	Ecom,PE,BL,BE,IM	4	Nil
	Ms. Rasika Wadvekar	L.L.M	Lecturer	Communication Skills	1.5	Nil
	Ms. Apurva A. Tayade	M.Tech (CSE)	Assistant Professor	Data structures, Programming Languages	5	Nil
	Mr. Prathamesh V. Phadke	M.E. (CSIT)	Assistant Professor	File Structure and Data Processing, Computer Organization	2	Nil
	Ms. Aashna Rukhsar	M.E. (CSE)	Assistant Professor	Data Mining	1.5	Nil
	Dr. Vishram N. Bapat	ME, PhD	**Adjunct Faculty**	Electrical Engineering	30	Nil

	Mr. Anil V. Jadhav	BSc(CJ)	**Adjunct Faculty**	Communication Skills	33	nil
	Mr. Shrikant B. Borgaonkar	MBA	**Adjunct Faculty**	Soft skills training, Communicationskills, ethics	11	Nil
	Mr. Amit Arokar	ME(CSE)	**Adjunct Faculty**	Software Development	5	Nil
	Mr. Suyash Zanwar	BE,MBA	**Adjunct Faculty**	Programming languages , software Development	1	Nil

11. List of Senior Visiting Faculty: -

Sr No	Name	Designation	Month & Year	Purpose
1	Mr. C. Kajwadkar	Sr. VP, CCIL	Feb 17	Academia Industry Interaction
2	Mr.Taral Shah	CEO, SQS Technology	Jan 16	Technical Talk on S/w Testing
3	Dr. Shrinivas Deshpande	H.O.D, M.C.A, P.G.Department, HVPM,Amravati	Jan 16	Talk on Recent Engineering Trends

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty

- ➢ No. of Permanent staff - 27
- ➢ No. of temporary staff - 0
- ➢ UG lectures and practicals by temporary faculty – 00 %
- ➢ PG lectures and practicals by temporary faculty - 00 %

13. Student Teacher Ratio (programme wise)

Sr. No.	Program Name	Number of Students (admitted)	Number of Faculty	Student-Teacher Ratio
1	B.E. (Regular Shift)	143	12	12:1
2	B.E. (Direct Second	183	12	16:1

	Year Shift)			
3	M.E.	21	3	7:1

14. No. of Academic Support Staff and Administrative Staff; Sanctioned and filled

Designation	Sanctioned	Filled
Programmer	01	01
Sr. Skilled Assistant	01	01
Jr. Technical Assistant	01	01
Lab/skilled Assistant	05	05
Peon	01	01+ 01 (daily wages)

15. Qualification of Teaching Faculty with D.Sc./D.Litt./ Ph.D./M.Phil./PG (including Adjunct faculties)

Qualification	Total
Ph.D.	02
M.Phil.	01
PG	23
UG	01

16. No. of Faculties with ongoing projects from
a) National & International funding agencies and grants received - NIL

FOR SOCIAL CAUSE

Name of Faculty	Project Name	Funding Agency	Funds Received
Ms. P. P. Chapke	Website for MC School Akola	MC School Akola	NIL
Mr. P. V. Phadke	Website for School	New High School Main ,Amravati	NIL
Mr. R. G. Anantwar	Website for Amravati District Badminton Association	Amravati District Badminton Association	NIL

17. Departmental projects funded by DST-FIST, UGC, DBT, ICSSR, etc and total grant received

Name of Funding Agency	Purpose	Amount (in Lacs)
CCIL Mumbai (under CSR)	Establishment of Lab for High Performance	23

	Computing (CDAC's PARAM SHAVAK super computer)	

18. Research Centre/Facility recognized by the university:-Applied for recognition

19. Publications:

The number of paper publication and participation per faculty per year of last four year is shown in following table.

Sr. No.	Name of Faculty	2015-16			2014-15			2013-14			2012-13			TOTAL
		National	International		National	International		National	International		National	International		
		Conference	Conference	Journal	Conference	Conference	Journal	Conference	Conference	Journal	Conference	Conference	Journal	
1.	Dr. A. B. Raut	01	01	20	01	01	22	-	01	14	-	06	04	**71**
2.	Mr. A. B. Potey	-	-	-	-	-	03	-	-	-	-	-	02	**05**
3.	Ms. K.G.Bagde	-	-	1	-	-	07	-	-	11	-	-	-	**19**
4.	Mrs. R. R. Shelke	-	01	05	-	01	03	01	01	12	02	-	08	**34**
5.	Ms. R.P. Bijwe	-	-	05	-	-	02	-	-	-	-	-	-	**07**
6.	Mr. N. A. Rathod	01	-	-	01	-	-	-	-	-	-	01	01	**04**
7.	Ms. P. P. Chapke	-	-	01	-	01	09	03	-	-	-	-	03	**17**
8.	Ms. R.R. Deshmukh	-	-	05	-	01	-	-	-	-	-	-	02	**08**
9.	Mr. R.G. Anantwar	-	01	-	-	-	-	-	-	01	01	-	01	**04**
10.	Mr. Y.R. Rochalani	-	-	01	-	-	02	-	-	-	-	-	03	**06**
11.	Mr. P. D. Kaware	-	-	01	-	-	01	-	-	02	-	-	-	**04**
12.	Ms. S.R. Kaware	-	--	02	--	--	02	-	--	03	-	--	01	**07**

Sr.	Name													Total
13.	Ms. P.A. Manjare	-	--	01	--	--	01	-	--	03	-	--	-	**05**
14.	Mr.A.M. Jaiswal	01	-	01	-		01	-	-	-	-	-	01	**04**
15.	Ms. J.I. Syed	-	01	02	01	01	01	-		01			-	**07**
16.	Ms. T.G. Ghongde	-	-	-	-	-	02	-	01	-	-	-	-	**03**
17.	Ms. A. A. Tayade	01	01	02	-	-	-	-	-	02	02	-	-	**08**
18.	Mr. P.V. Phadke	-	01	01	-	-	-	-	-	-	-	-	-	**02**
19.	Ms. A. Rukhsar	-	-	01	-	-	01	-	-	-	-	-	-	**02**
	TOTAL	**10**		**47**	**08**	**50**	**07**	**38**		**12**	**26**			**198**
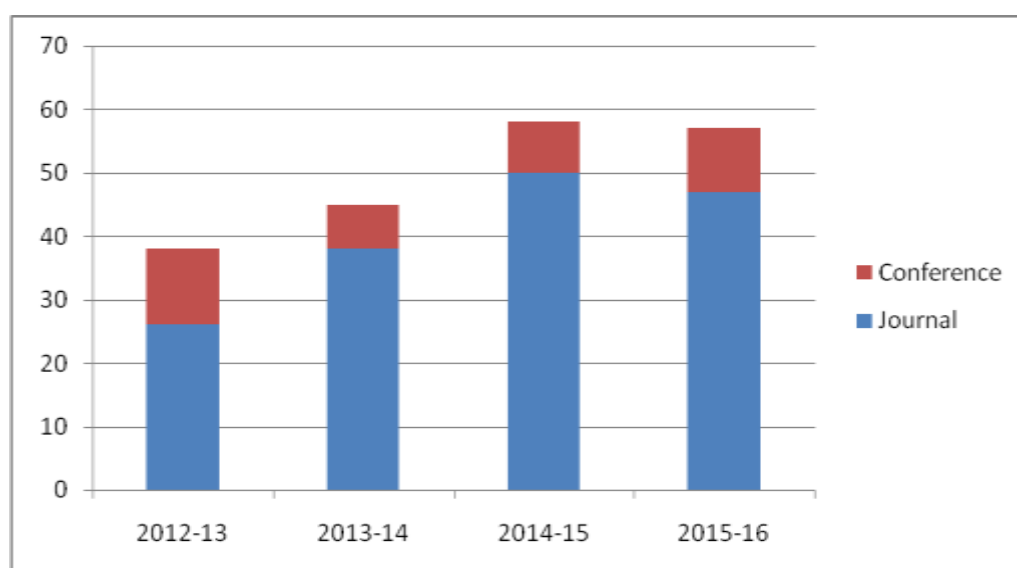
The above bar chart shows the overall faculty paper publication and conference participation details of last four year.

20. Areas of consultancy and income generated: NIL

For Social cause

Sr. No.	Name of Organization	Field of Consultancy	Fund Generated	Year
1	Ramkrishna High School, Amravati	Training to students on Computer Fundamentals	NIL (Social Cause)	2012-13
2	Hvpm's Summer Camp	Training to students on Computer Fundamentals	NIL (Social Cause)	2012-13
3	Hvpm's Summer Camp	Training to students	NIL	2013-14

		on Computer Fundamentals	(Social Cause)	
4	Municipal Corporation School No. 4,Akola	School Website	NIL (Social Cause)	2015-16

21. Faculty as members in
a) National committees b) International Committees c) Editorial Boards….

Sr.No.	Name of Faculty	Name of National Committee	Name of International Committee	Editorial Board
1	Dr. Anjali B. Raut	CSI (Computer Society of India)	Reviewer IEE Transaction on Fuzzy Clustering	IJRCIT (Asso. Editorial Board Member)
	Dr. A.B. Raut is a member of Board of Studies (BOS), SGB Amravati University			

22. Student projects

a) Percentage of students who have done in-house projects including interdepartmental/ programme:

Every year, 100% Final year UG and PG Students do in-house projects being mandatory as per curriculum

b) Percentage of students placed for projects in organizations outside the institution i. e .in Research laboratories/Industry/ other agencies:

Sr. No.	Academic Year	Percentage (%)
1	2016-17	45%
2	2015-16	00 %
3	2014-15	10 %
4	2013-14	55 %
5	2012-13	0 %
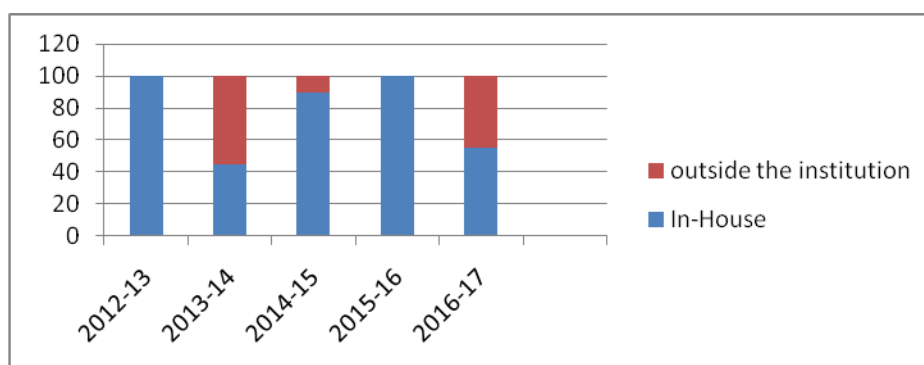
23. Awards/Recognitions received by faculty and students:

a) **Awards / Recognition received by Faculty:**

Sr. No.	Name of Faculty	Name of Award/ Recognition	Year
1	Prof. A. M. Jaiswal	Winner at Avishkar SGB Amravati University	2016-17
2	Prof. J. I. Syed	Winner at Avishkar SGB Amravati University	2015-16
3	Dr. A. B. Raut	IEI National	2014-15
4	Prof. Y. R. Rochlani	Winner at Avishkar SGB Amravati University	2014-15
5	Prof. P. P. Chapke	Gate Qualified	2014-15
6	Prof. J. I. Syed	Gate Qualified	2014-15
7	Prof. P. D. Bodakhe	Gate Qualified	2014-15
8	Prof. A. N. Boob	Gate Qualified	2013-14
9	Dr. A. B. Raut	5th Prize for Project competition at Global Conference, DCPE, Amravati	2012-13

b) **Awards / Recognition received by Students:**

Year	Technical Event	Cultural	Sports	Other
2015-16	1	-	-	1
2014-15	4	-	1	-
2013-14	7	1	-	-
2012-13	3	-	-	-

Sr. No.	Name of Student	Name of Award/ Recognition	Year
1	Ms. Zainab Ali, Ms. Anuja Deshmukh	1st Winner in paper presentation at GCOE Amravati	2015-16
2	Makrand Erandolkar	Gate Qualified	2014-15
3	Ms. Jessica David	1st Prize in Paper Presentation	2014-15
4	Mr. Chetas Patil, Mr. Chetan Thakre, Mr. Rohit Gavfale	1st Winner in PHP Workshop	2014-15
5	Mr. Nikhil Atkare	3rd Winner in Php Workshop	2014-15
6	Ms. Mayuri Rakhonde	1st Prize in Technical Quiz at IBS College of Engg.	2014-15
7	Mr. Gaurav Dharmale	University Color Coat Holder in KHO-KHO	2014-15

8	Ms. Anuja Deshmukh	1st Prize in Singing at Raisoni	2013-14
9	Mr. Prasad Behare	1st Winner in PHP with MySql Workshop	2013-14
10	Ms. Stuti Tiwari	2nd Winner in PHP with MySql Workshop	2013-14
11	Ms. Ravina Popli	1st Runner Up in Paper presentation at HVPM COET	2013-14
12	Mr. Aakash Ghagre, Ms. Swejal Ajmire	1st Winner Technquiz at HVPM COET	2013-14
13	Ms. Pallavi Sadanshiv, Ms. Vaishnavi Shende	3rd Winner in Php Workshop	2013-14
14	Ms. Reshma Vishakarma Ms. Swati Wannalikar	1st Winner in Avishkar at HVPM COET Amravati	2013-14
15	Ms. Priyanka Bansod	1st Winner in on spot programming at HVPM COET Amravati	2013-14
16	Ms. Samiksha Kakade	3rd Winner in Roborace Galaxy at HVPM COET Amravati	2012-13
17	Mr. Aditya Aware, Ms. Vishakha Arbat, Mr. Kishor Awajade, Ms. Neha pathak, Mr. Kunal yeole	1st Runner Up in srujan software in tulsiram gaikwad patil coet nagpur	2012-13
18	Mr. Vikrant Madankar	1st Winner in software development IBSS E-DAZZLED, IBSS amravati	2012-13

c) Achievements: University Rankers:

Sr. No.	Name of the Student	University Rank	UG/PG	Academic Year
1	Ms. Sapna Churare	1st	UG	2015-16
2	Ms. Shiba Sheikh	7th	UG	2015-16
3	Ms. Rafat Rizvi	5th	PG	2015-16
4	Ms. Sanjana Dhanorkar	2nd	UG	2014-15
5	Ms. Uroojussama	3rd	UG	2014-15
6	Ms. Aashna Rukhsaar	5th	UG	2014-15
7	Ms. Priyanka Pursani	2nd	PG	2013-14
8	Ms. Pooja Dhole	1st	UG	2012-13

24. List of eminent academicians and scientists / visitors to the department:

a) Eminent Academicians & Scientist

Sr.No	Name of Person	Designation
1.	Dr.Anil Sahasrabuddhe	Chairman ,AICTE,New Delhi
2.	Dr.Pratapsinh K.Desai	President ISTE,New Delhi
3.	Dr.V.S.Sapkal	Prof. & Head Chem.Tech.SGBAU Amravati
4.	Dr.G.D.Yadav	Vice Chancellor,Institute of Chemical

Sr.No.	Name	Designation
		Technology(ICT),Mumbai
5.	Dr.N.L.Sarda	Prof. &Head CSE IIT Bombay
6.	Mr.Nitin Ghatapande	Ex.Bramha Prakash Scientist ISRO Banglore
7.	Mr.Jayvant Ingle	Ex. Scientist ISRO Banglore
8.	Mr.C.Kajwadkar	Sr. VP and Head IT Clearing Corporation of India
9.	Dr.G.R.Bamnote	Dean E&T SGBAU Amravati
10.	Dr.V.M.Thakare	Chairman BOS CSE ,SGBAU Amravati
11.	Dr.D.N.Chaudhary	BOS CSE, SGBAU Amravati
12.	Mr.Ajay Kumar Meher	Sr.V.P. Information Tech.Multiscreen Pvt.LtdMumbai
13.	Mr.Taral Shah	Sr.VP,SQS India ,BFSI Ltd Mumbai
14.	Mr.Gajanan Padsule	TCS(Mumbai)
15.	Mr.Shekhar Patankar	Vice President & Head Telecommunication Media Bussiness Persistent Systems Pvt.Ltd,Nagpur
16.	Mr.Babu Nair	MD & Group Publisher Global Infomart Mumbai
17.	Dr.Eswarmoorthy M.	Prof. and Head Mechanical Enginnering Dept.VNIT Nagpur
18.	Dr.A.M.Kuthe	Prof & Head Mechanical Engg Dept VNIT Nagpur
19.	Mr.Ravi Eppaturi	CTO at LyncBiz Corporation,earlier Mphasis,Mumbai

b) Visitors to the Department

Sr.No.	Name of the person	Purpose of Visit
1.	Mr.Kiran Gite (Collector Amravati)	Poster Presentation Competition Inauguration during Digital India Week
2.	Mr.Manoj Rai	Guest Lecture on Cyber Security and Network Security
3.	Mr.Umesh Aglawe(Gate Forum Pvt.Ltd)	Mentoring
4.	Dr.Urmila Shrawankar (Raisoni Nagpur)	Guest Lecture
5.	Mr.K.K.Rathi(Microsoft Technology)	Guest Lecture on "Microsoft Azure"
6.	Mr.Shyam Sundar Pottori(IEEE Professionals)	Guest Lecture on "How to Prepare for Campus Placement"
7.	Mr.Umesh Aglawe	Guest Lecture on "How to Prepare for Gate Exam"
8.	Dr.B.N.Jajoo(Technical Advisior HVPM COET)	Guest Lecture on "How to write technical Paper"
9.	Dr.N.L.Sarda	Guest Lecture on "Future Guidance to students for campus"

10.	Dr.B.N.Jajoo(Technical Advisior HVPM COET)	Guest Lecture on "How to write technical Paper"
11.	Mr.Umesh Aglawe	Guest Lecture on "How to Prepare for Gate Exam"
12.	Mr.Rajesh Urkunde (Head of M. Krishi TCS,Pune)	Awareness about M.Krishi

25. Seminars/ conferences/workshops organized & the source of funding
a) National

Sr. No	Date	Title	STTP/Training/ Workshop/ Conference	Duration	Funding Agencies	Venue
1.	9,10,11 January 2016	ISTE National Convention	45th National Convention ISTE.	(Three Days)	ISTE, New Delhi	HVPM's COET Amravati
2.	15th Dec to 24th Dec 2016	Big Data Analytics	Short Term Training Program	(Two Week)	Self	HVPM's COET Amravati
3.	23rd June 2014 to 28th June 2014	Software Foundation Module I	SWEBOK CERTIFICATE PROGRAM	(One weeks)	Self	HVPM COET, Amravati
4.	28th June 2014 to 3rd July 2014	Software Foundation Module II	SWEBOK CERTIFICATE PROGRAM	(One weeks)	Self	HVPM COET, Amravati
5.	23rd June 2014 to 3rd July 2014	"Software Engineering" Conducted by IEEE Society	I.S.T.E. approved Short Term Training Programme .	(two weeks)	Self	HVPM COET, Amravati
6.	2 October 2013	Conference on Green Technology	Conference on "Green Technology" Theme: Scientific & Engineering. Solutions to Environmental Issues in association with Institute of Engineers, Amravati, Satpura Foundation,	One Day	Self Funding	H.V.P.M.COET

			Kirloskar Vasundara, Nature conservation Club, Indian Water Works Association.			

b) International

Academic Year 2015-16						
Sr. No.	Date	Title	STTP/Training/ Workshop/Conference	Duration	Funding Agencies	Venue
1.	9,10,11 January 2016	International Conference	International Conference on Challenges & Opportunities in Technical Educations in the Era of Sustainable Development	3 Days	ISTE, New Delhi	H.V.P.M. COET

26. Student profile program / course wise:

Name of The Course/ programme	Academic Year	Applications received	Selected	Enrolled		Passing Percentage
				*M	*F	
UG	2015-16	1.Admission process is centralized & carried out by admission regularity authority/DTE/State Govt. 2.Admissions are invited, received by centralized admission process 3.Selected students directly report to college		19	26	98.27%
	2014-15			13	24	95.05%
	2013-14			14	44	86.24%
	2012-13			24	35	83.91%
PG	2015-16			4	14	72.72%
	2014-15			6	12	92.30%
	2013-14			5	13	87.50%
	2012-13			5	13	53.33%

*M= Male *F =Female

27. Diversity of students:

Department: Computer Science & Engineering			
Academic Year	% of students from the same state	% of students from the other state	% of students from abroad
2012-2013	100	0	0
2013-2014	99	01	0
2014-2015	100	0	0
2015-2016	100	0	0

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Year	Department	Name of Exam	No. of Student Qualified
2012-13	CSE	GATE	02
2013-14	CSE	GATE	01
2014-15	CSE	GATE	01
		Defense Service	01
2015-16	CSE	GATE	00
		PNB Bank	02

29. Student Progression

Students Progression		% Against Enrolled			
		Academic Year			
		2012-2013	2013-2014	2014-2015	2015-2016
UG to PG		**12**	**10**	**08**	**14**
Employed	1) Campus selection	26	29	19	08
	2) Other than campus recruitment	54	49	64	69
Entrepreneurship/Self-employment		01	01	01	-

30. Details of Infrastructural facilities

  ▪ **Library**

  ➢ Central Library facility with following details

Description	Quantity	
Books for students Circulation	Title	1144
	Volumes	6162
Technical Journals	National	17
	International	Desirable
	E- journals	4

		2
Technical Magazine Subscribe		
Newspaper		17
Educational CD's		179

> **Departmental Library**

In addition to the Central Library, a well-equipped departmental library is functioning in the department catering to the needs of the faculty and students with 132 books and 109 titles. Departmental libraries have a good collection of reference books comprising of dictionaries, encyclopedias, etc. Faculties and students of department can avail this facility by issuing books. Digital library is also available where all books are available in digital forms.

b) **Internet facilities for Staff & Students**

Internet facility for the staff is made available. Students can also avail internet through Wi-Fi facility. 50 Mbps broadband leased line is available in the Institute.

c) **Class rooms with ICT activity**

Internet available in classroom through Wi-Fi facility. Classrooms are provided with LCD projectors and audio/video facility.

d) **Laboratories**

Name of Laboratory	Name of Equipment	Specifications	Quantity
JAVA LAB.	Computer System	LENOVO CPU E6700, 3.2 GHz,INTEL G41 CHIPSET,2GB RAM,320 GB HDD,LCD MONITOR 18.5"	20
C++ LAB.	Computer System	LENOVO CPU E6700, 3.2 GHz,INTEL G41 CHIPSET,2GB RAM,320 GB HDD,LCD MONITOR 18.5"	20
DATABASE PROCESSING LAB.	Computer System	Lenovo H520S, CPU – Core i3, 3.30 4 GB DDR3 RAM, 500 GB SATA HDD, 20" LED Monitor, Lenovo Keyboard, Optical mouse, 10/100/1000 Mbps Ethernet Card, ATX Cabinet	15
WEB	Computer	Intel Pentium G2030 Dual Core	29

TECHNOLOGY LAB.	System	3.00 GHz, Mother Board 4GB DDR2 RAM,500 GB HDD,DVD R/W/SATA ,18.5" WIDE TFT CLR	
PROJECT LAB.	Computer System	INTEL Pentium D@3. GHz[Dual Core], 2x2 MB L2 Cache, 800 MHz FSB, Intel 945 GHz Chip Set, 2.5 GB DDR2 RAM, 80 GB SATA HDD, 15" TFT Monitor, Combo Drive, HCL Keyboard, Optical mouse, 10/100/1000 Mbps Ethernet Card, Mini Tower Cabinet	23
PROGRAMMING METHODOLOGY LAB.	Computer System	LENOVO H430,INEL DUAL CORE,2.80 GHZ,2GB RAM,500HDD,LCD MONITOR 18.5"	19
SYSTEM SOFTWARE LAB.	Computer System	LENOVO H430,INEL DUAL CORE,2.80 GHZ,2GB RAM,500HDD,LCD MONITOR 18.5"	18
RESEARCH LAB.	Computer System	DUAL CORE 3.20 CHIPSET H81,4GB RAM,500 GB HDD,TFT 18.5"	05
ELECRTONIC DIVICE AND CIRCUIT/ANALOG AND DIGITAL INTEGRATED CIRCUIT LAB	Electronic Kits	SCIENTECH Operational Amplifier, Code Conversion, Rectifier Trainer Kit, 30 MHz CRO, Mux-Demux Trainer, 1MHz Function Generator	36
COMPUTER CENTER	Computer System	INTEL CORE I3-6100,4GB RAM,500 GB HDD,MONITOR 18.5" LED	40
	Computer System	DELL DUAL CORE INTEL, 2.8GHZ,4GB RAM, 500HDD, LED MONITOR,	25
	Computer System	HP,I3 CORE, 4GB RAM,250 GB HDD,DVD R/W,MONITOR 20"	30

31. **Number of students receiving financial assistance from college, university, Government or other agencies**

Agency	Number of students receiving financial Assistance			
	2012-13	2013-14	2014-15	2015-16
College (TFWS)	03	03	03	03
Scholars Scholarship from Institiue	02	01	02	03

Government of Maharashtra	278	305	291	295
GATE Assistantship	01	Nil	Nil	Nil
Lila Poonawala Foundation	Nil	Nil	01	01

32. Details on student enrichment programs (special lectures / workshops / Seminar /training) with external experts:

Sr. No.	Name of the workshop /Training/ Lectures details	Conducted By	Topic/ Contents in brief	Duration (Days)	Targeted Students
		Academic Year 2016-17			
1.	Flipped Learning	Dr.Vasudha Kamath(Vice Chancellor SNDT Womens University,Mumbai),Dr.Jayashri Shinde(Vice Chancellor SNDT Womens University,Mumbai)	Workshop	1	40
2.	Hackathon- "Cyber Forensic Code Competition"	Mr.Yash Kadakia(CTO Security Brigade),Mr.Gaurav Mishra(CTO Smoke Screen),Mr.Raviraj Doshi(CTO Smoke Screen),Mr.Shomiraon Das Gupta(CEo Netmonestry),Mr.Sudarshan Pishupati(Senior Manager Smoke Screen),Mr.C.Kajawadkar (President CCIN)	Cyber Forensic Code Competition	2	130
3.	Workshop on awareness of woman's rights regarding sexual harassment at workplace	Dr.A.B.Raut,Prof.Rasika Wadwekar	Internal Complaint Committee	1	100
4.	Mission Mars	Mr.Jayavant Ingale(ISRO Scientist)	Seminar	1	40
5	Industry Visit	Industry visit to Netmagic Data Center Noida	Visit to Data Center	1	35
6	Conducted Seed IT Idol	Mr.Ghanasham Lokare (Seed Infotech,Pune)	Technical Contest	1	105

	Contest First Phase (Technical Test of 60 Minutes)				
7	English Communicati on Training for 4th Semester Students of BE	Mr.Shrikant Borgaonkar,Promotor Pioneer Learning Systems	English Communicati on Training (ECT)	56	89
8.	English Communicati on Training for 5th Semester Students of BE	Mr.Shrikant Borgaonkar,Promotor Pioneer Learning Systems	English Communicati on Training (ECT)	56	95
9.	Ice Breaking Session for Ist Year Students By Mr. Amol Anil Karmarkar, Asst. Prof and TPO. at HVPM COET, Amravati	Mr. Amol Anil Karmarkar HVPM COET,Amravati	Ice Breaking Session	1	113
Academic Year 2015-2016					
1.	Summer internship program on telecom system	Mrs.S.P Gawande, Ms.Pragati Chouhan,Mr.A. Bjangid(MNCE Biz, Mumbai)	Live project for 3rd Year Students	30	26
2.	Cyber security Awareness Program	Mrs.Deepanjali Kunthe(Risk Quotient Pvt.Ltd,Mumbai)	Seminar	1	50
3.	Summer internship program	Mr.Narayan(KLM Capital Pvt Ltd)	Live project for 3rd Year Students	30	70
4.	Cyber security Awarness Program	Mrs.Deepanjali Kunthe(Risk Quotient Pvt.Ltd,Mumbai)	Need of Cyber security	1	20

5.	Automation testing using selenium tool	Sayed Z Abbas (Shree Trinity Infotech)	Automating Testing	1	29
6.	Conducted Seed IT Idol Contest First Phase (Technical Test of 60 Minutes)	Mr.Ghanasham Lokare (Seed Infotech,Pune)	Technical Contest	1	364
7.	Conducted AMCAT Test First Assesment for BE students Batch 2017 (Computer Test of 3 Hours) from Aspiring Minds Assessment PVT. LTD	Mr.Zeshan Ali Aspiring Minds Assessment PVT. LTD	Assessment Test	1	110
8.	English Communication Training for 4th Semester Students of BE	Mr.Shrikant Borgaonkar,Promotor Pioneer Learning Systems	English Communication Training (ECT)	56	95
9.	Ice Breaking Session for Ist Year Students By Mr. Amol Anil Karmarkar, Asst. Prof and TPO. at HVPM COET, Amravati	Mr. Amol Anil Karmarkar HVPM COET,Amravati	Ice Breaking Session	1	108
10.	Aptitude Training Activity for 7th Semester Students of BE (Partially completion of planned	Mr.Aditya Hele Passion EON, Amravati	Aptitude Training Activity	54	230

	syllabus)				
11.	Workshop on Awarness about and importance of Aptitude test Conduct by Mr.Anant Farkade Director & Mr.Rishi Chouraisa Founder & Director, Online Vikalp Education, Mumbai for All 3rd Year Students	Mr.Anant Farkade & Mr Rishi Chouraisa Online Vikalp Education, Mumbai	Awarness about and importance of Aptitude test	1	182
12.	Refresher Training For 7th Sem Students to Conduct By Mr.Aditya Hele,	Mr.Aditya Hele passionEON, Amravati	Refresher Training	43	147
13.	Soft Skill Training for 5th Semester Students of BE	Mr.Shrikant Borgaonkar,Promotor Pioneer Learning Systems	Soft Skill Training	70	310
14.	Server System Management	Mr.Manikandan Sir	Training Program	1	40
	Academic Year 2014-2015				
1.	Soft Skill Training by for 5th Semester Students of BE	Mr.Shrikant Borgaonkar,Promotor Pioneer Learning Systems	Soft Skill Training	74	280
2.	Conducted Mock Placement drive for Batch 2015 BE students of HVPMCOET,	Ketan Kapale Epapers Educational HuB LLP, Nagpur	Mock Placement drive	3	211

	Amravati jointly with				
3.	Mock Placement Drive by MK Placement, Nagpur for 7th Sem Students	Prakesh Shesh Creative Business Techniques	Mock Placement drive	2	170
4.	Conducted AMCAT Test Second Assesment for BE Batch 2015 (Computer Test of 3 Hours)	Mr.Zeshan Ali Aspiring Minds Assessment PVT. LTD	Assessment Test	1	119
5.	Conducted AMCAT Test First Assesment for BE Batch 2015 (Computer Test of 3 Hours) Aspiring Minds Assessment PVT. LTD	Mr.Zeshan Ali Aspiring Minds Assessment PVT. LTD	Assessment Test	1	20
6.	Aptitude Training Activity by Concept Acedamy, Amravati for 6th Semester Students of BE (Partially completion of planned syllabus)	Mr.Ashish Mithole Concept Acedamy, Amravati	Aptitude training	51	343
Academic Year 2013-2014					
1.	Conducted Mock Placement drive for	Mr.Tuhin Mukharjee Single Point H. R. Mumbai	Mock Placement Drive	2	259

	Batch 2014 BE students of HVPMCOET, Amravati jointly with Single Point H. R. Mumbai				
2.	Group Discussion for 1 Session and Personal Interview (Technical & Non-Technical) Practice 4 Session per class for Final year Students BE	Mr.Rahul Desai Rishicool, Mumbai	Group Discussion Session	49	259
3.	Conducted Seed IT Idol Contest First Phase (Technical Test of 60 Minutes)	Mr.Ghanasham Lokare Seed Infotech, Pune	Technical contest	3	419
4.	English Communication Training by Systems for 4th Semester Students of BE	Mr.Shrikant Borgaonkar,Promotor Pioneer Learning	English Communication Training (ECT)	49	320
5.	Aptitude Training Activity by for 6th Semester Students of BE	Ms.Pratiksha Tilekar,Mr.Narendra Kulkarni,Ms.Jasmine Khan,Ms. Poonam Singh. Seed Infotech, Pune	Aptitude Training Activity	64	260
6.	Advance Intelligence Robotics (Workshop)	Mr. Umashankar Yadav	Different types of Robots there mechanism construction	2	250

		Academic Year 2012-2013			
1.	Conducted AMCAT Re-Assessment Test for MBA and BE Final Year Students Batch 2013 and Fresh Assessment for BE Final Year Students Batch 2013 (Computer Test of 3 Hours) from Aspiring Minds Assessment PVT. LTD	Mr.Zeshan Ali Aspiring Minds Assessment PVT. LTD	AMCAT online Assisment test for all final yaer students	1	166
2.	Group Discussion and Personal Interview Practice activity 3 Sessions each per class by for Final year Students BE	Tuhin Mukharjee Rishicool, Mumbai	Group Discussion session	2	200
3.	Soft Skill Training by for 5th Semester Students of BE	Mr.Shrikant Borgaonkar,Promotor	Soft skill training	60	300
4.	Conducted Mock Placement drive for Batch 2013 BE students of HVPMCOET, Amravati jointly with	Tuhin Mukharjee Rishicool, Mumbai	Mock placement drive for all final year students	2	259

33. **Teaching methods adopted to improve student learning:**

At Department various activities are conducted for improving student learning. These activities are conducted along with academics. The activities are as follows:

➢ PPT	➢ Class Test
➢ Videos	➢ Re-Test
➢ Digital School	➢ Common Test
➢ Group Discussion	➢ Improvement Test
➢ Brain Storming	➢ Remedial Classes
➢ Role Play	➢ Assignments
➢ Quiz	➢ Site visits
➢ Group Discussion	➢ Brain Storming
➢ Techno-Aptitude	➢ Industrial Visit
➢ Flipped Learning	➢ Hackathon
➢ Debate	➢ Chalk and Talk
➢ Puzzles	➢ Games
➢ Blended Learning Technique	➢ Online test / Written test (Multiple choice / Descriptive)
➢ Cross Words	➢ Cooperative Learning Strategies
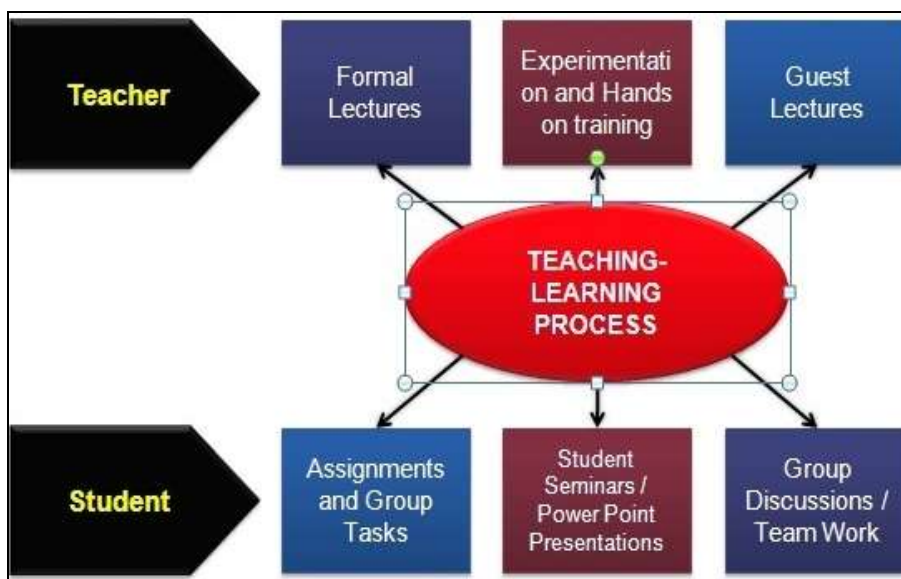
Figure: Teaching Learning Process

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

Our Department along with institution always tried for the holistic development of the students and encourages them for participation in the various social activities. At department following activities are performed:

Sr. No.	Nature of Services
1	Cyber security awareness programs.
2	NSS (National Services Scheme)
3	Celebration of Digital India Week (1st to 7th July 2015)
4	Tree plantation
5	Visit to orphanage/ Old Age Home
6	Green conference
7	Independence & Republic day celebration
8	25th of every month is celebrated as environment day or no vehicle day
9	Social Gathering (Tarang)
10	Industrial Visit
11	Blood donation camp
12	Blank page bank
13	Making the college playground available to neighboring industries and communities on weekends
14	Sharing computer Lab for the 11th and 12th students from neighboring college
15	Yoga Day on 21st June
16	Green day celebration
17	Workshop on Women sexual harassment at work place
18	Program on Swacch Bharat Abhiyan
19	Womens empowerment programme, Sensitization
20	Workshop on "Manashanti" Lonavala and "Heartfullness" for stress management

35. SWOC analysis of the department and Future plans:

Strengths:

➢ Heritage of liberal, supportive, youth centric management (trust).

➢ Qualified & experienced senior faculty with blend of dedicated, young and dynamic faculty.

➢ Core Stream Branch.

➢ Consecutively University merit rank holders from department.

➢ Consistent & good results of all semesters.

➢ 100% results of some subjects in university consistently every year.

➢ Excellent infrastructure and well equipped laboratories.

➢ NPTEL Courses and various workshops for students.

➢ Lectures from Industry persons & eminent academicians.

➢ Department organize FDP & STTP for Faculty and organize many

workshops for hands on training.

➢ Along with classrooms and laboratories, department having departmental library, seminar hall, tutorial hall, open source lab and computer center.

➢ Implementing outcome based teaching-learning process & continuous assessment system for students.

➢ Feedback system for student and faculty.

➢ Remedial lectures for academically weaker students.

➢ Friendly and Team working culture in Department under warmhearted guidance of HOD.

➢ The departmental academic, co-curricular and extra-curricular programs are carried out with good results and enthusiastically due to overwhelming participation of student and team working nature of faculty in department.

➢ The determined and whole-hearted support of the management to develop the advanced programs like infrastructure, lab equipment's, funding to projects, research centre workshop & seminar with extra other activities etc.

➢ Youngest NBA accredited programme in the University.

➢ Starting of beyond syllabus employability enhancement courses in identified core technical areas in association with industries.

➢ Systematic monitoring of teaching-learning process.

➢ Representation of faculty in university governance.

➢ Effective Guardian scheme

➢ 24*7 Internet facilities for students.

➢ Implementation of KYSS – Know your Student & Know your Subject for effective learning of students.

Weaknesses:

➢ Located in industrially under developed area.

➢ The region is drought prone hence economically poor.

➢ Being University affiliated, the changes in syllabus are slow relative to changes in technology and industry expectation.

➢ Some syllabus carries improper sequence of topics which affects on students understanding.

➢ The graduated students experience the gap between studied syllabus and

its implementation in industries.

➢ Faculty with limited exposure to industry.

Opportunities:

➢ With policies of digital India, smart Cities, startup India, stand up India, development of special Industrial zone in Nagpur (Mihaan), software parks the opportunities to overcome the weaknesses are good.

➢ To expand the existing employability enhancement, beyond syllabus training courses in association with industries.

➢ Starting new Research center under SGBAU for Ph.D. research work.

➢ Starting need based certification courses.

➢ Enter into collaborative project with industry and other institute for better exposure.

➢ Encouraging students for GATE & Government /public sector examination.

➢ Prospect for academic autonomy.

Challenges:

➢ Lack of academic autonomy especially in the curriculum and syllabus front.

➢ Intake of students is of average quality.

➢ Fetching reputed core industries for campus placements.

Future Plans:

➢ Effective use of ICT for teaching-learning process.

➢ To provide more Industry-Institute relationship to take up real time needs of the industry as students/faculty projects.

➢ To produce quality student projects taking up innovative problems relevant to the society.

➢ Conduct various activities to enhance the entrepreneurial skills to the students.

➢ To seek more research projects under various R&D and Government funding agencies.

Evaluative Report of the Department

1. **Name of the department: Electronics and Telecommunication Engineering**

2. **Year of Establishment:** 2002

3. **Names of Programmes/Courses offered:**

Sr. No.	Name of the Program	UG/PG	Shift	Intake Capacity
1	Bachelor of Engineering	UG	First (entry level after HSSC)	60
2	Bachelor of Engineering	UG	Second (lateral entry level after diploma)	60
3	Master of Engineering	PG	Second	24

4. **Names of Inter disciplinary courses and the departments/units involved:**

Sr. No.	Name of Interdisciplinary Course	Department Involved
1	Mathematics III	First year Engineering
2	Communication Skill	MBA
3	Computer Programming and Numerical Methods	Computer Science
4	Environment Studies	First Year
5	E-Commerce	MBA
6	Introduction to Computer Networks	Information Technology

5. **Annual/semester/choice based credit system (programme wise):**

Sr. No.	Name of The Program	Level	Pattern
1	Bachelor of Engineering	UG	Semester and Credit Grade System
2	Master of Engineering	PG	Semester and Credit Grade System

6. **Participation of the department in the courses offered by other departments**

Sr. No	Course	Department
1	Basic Electrical Drives & Control	Mechanical Engineering
2	Electronics Devices and Circuits	Computer science Engineering
3	Analog And Digital IC's	Computer science Engineering
4	Digital Signal Processing	Computer science Engineering
5	Measurement System	Mechanical Engineering
6	Electrical Engineering	First year Engineering
7	Control System Engineering	Mechanical Engineering

7. **Courses in collaboration with other universities, industries, foreign institutions, etc.:**

The department has taken an initiative and started beyond universities curriculum courses to bridge the gap between the industry requirements and curriculum by imparting required skill set in the students. These course contents are substantiated by taken consent from potential industries. The students are selected based on their performance in overall academics and in an entrance test.

Sr. No.	Course	Number of Students Selected
1	VLSI	25
2	Embedded System and IoT	30
3	GATE Coaching	03

8. **Details of courses/programmes discontinued (if any) with reasons:**

Applied for discontinuation of lateral entry for direct second year diploma students division of 60 intake with effect from 2017-18. The admissions in diploma institutions have depleted drastically and seats of such divisions in the State remain unfilled.

9. **Number of teaching posts**

Designation	Sanctioned	Filled
Professors	03	01
Associate Professors	06	01
Assistant Professors	17	24
Adjunct Professors		03

1. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D./M.Phil.etc.,)**

Name	Qualification	Designation	Specialization	No. of years of Experience	No. of Ph.d. Students guided for the last 4 years
Dr. U. A.Kshirsagar	M.E. , Ph. D.	Professor	VLSI	13	Nil

	Name	Qualification	Designation	Specialization	Experience	Ph.D.
	Mr. V. L. Agrawal	M.E.	Associate Professor	Artificial Neural Network	14	Nil
	Mr. N.G. Jaiswal	M.E.	Asst. Prof.	Automatic control & Robotics	13	Nil
	Mr. A.J. Khambre	M.E.	Asst. Prof.	Electrical Power System	13	Nil
	Mr. P.M.Kakde	M.E.	Asst. Prof.	Artificial Intelligence		Nil
	Mr. S.D. Mahatme	M.E.	Asst. Prof.	Embedded System	11	Nil
	Mr. A.B. Kharate	M.E.	Asst. Prof.	VLSI	12	Nil
	Mr. A.E. Bhande	M.Tech	Asst. Prof.	VLSI	7	Nil

	Mr. A.M. Madghe	M.E.	Asst. Prof.	Digital Image Processing	6	Nil
	Mr. R. J. Jilawar	M.Tech	Asst. Prof.	VLSI	4.5	Nil
	Mr. P. U. Ishwarkar	M.E.	Asst. Prof.	Neural Network	5.5	Nil
	Mr. P. V. Saudagare	M.Tech	Asst. Prof.	Artificial Intelligence	5	Nil
	Mr. H. P. Oak	M.E.	Asst. Prof.	Artificial Intelligence	4.5	Nil
	Mr. B. K. Pandhwal	M.Tech	Asst. Prof.	Signal Processing	5.5	Nil

	Mr. P. N. Sanghavi	M.E.	Asst. Prof.	Communication Engineering	5	Nil
	Mr. S. V. Bakale	M.E.	Asst. Prof.	Artificial Intelligence, Digital Image Processing	6	Nil
	Mr. N. N. Mulla	M.E.	Asst. Prof.	Digital Signal Processing	6	Nil
	Prof. A. P. Vartak	M.E.	Asst. Prof.	Digital Signal Processing	11	Nil
	Mrs. C. S. Rathi	M.E.	Asst. Prof.	Digital Image Processing	7	Nil
	Mr. P. C. Pattewar	M.E.	Asst. Prof.	VLSI	3	Nil
	Mr. C.V. Koleshwar	M.E.	Asst. Prof.	VLSI, Embedded	1	Nil

	Ms. A.R.Tonde	M.E.	Asst. Prof.	VLSI	1.5	Nil
	Ms. Jinal Taper	M.E.	Asst. Prof.	VLSI	1	Nil
	Mr. Sanket Pohokar	M.E.	Asst. Prof.	VLSI, Embedded System	1	Nil
	Mrs. Nidhi Sharma	MSc.	Asst. Prof.	Mathematics	7	Nil
	Mrs. Shruti Kulkarni	M.E.	Asst. Prof.	Digital Image Processing	1	Nil

11. List of senior visiting faculty (Adjunct Faculty)

Sr. No.	Name of Faculty	Designation
1	Mr. Nitin Ghatpande	Ex-BrahmaPrakash Scientist ISRO, Bangalore
2	Mr. Mangesh Bharti	CEO, MDB Electrosoft
3	Mr. Mangesh Patankar	CEO, Veol Medical Technologies Pvt. Ltd., Mumbai

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: No Temporary Faculty

13. Student-Teacher Ratio (programme wise)

Sr. No.	Program Name	Number of Students (admitted)	Number of Faculty	Student-Teacher Ratio
1	B.E. (First Shift)	126	12	10.5

2	B.E. (Second Shift)	254	13	19.53
3	M.E.	35	04	8.75

14. Number of academic support staff (technical) and administrative staff ;sanctioned and filled:

Staff Members	Sanctioned Number	Filled Number
Academic Technical	05	05
Administrative	01	01+01 (Daily wages)

15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG.

Qualification	Number of Faculty
Ph.D.	01
PG	24
UG	01

16. Number of faculty with ongoing projects from a) National b)International funding agencies and grants received

Number of Faculty with ongoing Projects	Total Grants Received
02	Permission to use Lab Facilities at IIT Bombay
02	Rs. 4 Lacs under CSR

17. Departmental projects funded by DST-FIST;UGC, DBT, ICSSR,etc.and total grants received

Sr. No.	Project Name	Principal Investigator	Funding Agency	Sanctioned Amount	Duration
1	MODROB	Dr. Ujwala A. Belorkar	AICTE	4,31000	2011-13

18. Research Centre/facility recognized by the University: Applied for Research Center

19. Publications:

Sr. no.	Name	No. of papers published in peer reviewed journals (National/ International)	No. of publication listed in international database/ Monograph/ Chapters inbooks/ books Edited/ SNIP/ SJR	Books with ISBN/ISSN numbers	Citation Index (Average)	H-Index (Average)
1	Dr. U. A.	14	-	1	-	-

	Kshirsagar					
2	Mr. V. L. Agrawal	3	-	-	-	-
3	Mr. P.M.Kakde	3	-	1	-	-
4	Mr. A.B. Kharate	8	-	-	-	-
5	Mr. A.E. Bhande	8	-	-	-	-
6	Mr. H. P. Oak	1	-	-	-	-
7	Mr. S. V. Bakale	1	-	-	-	-
8	Mr. N. N. Mulla	2	-	-	-	-
9	Mr. A. P. Vartak	2	-	-	-	-
10	Mr. P. C. Pattewar	3	-	-	3	1
11	Mr. C.V. Koleshwar	4	-	-	-	-
12	Ms. A.R.Tonde	2	-	-	-	-
13	Ms. Jinal Tapar	5	-	-	1	12
14	Mr. Sanket Pohokar	2	-	-	-	-
15	Ms. S. S. Kulkarni	2	-	-	-	-

20. Areas of consultancy and income generated: NIL

21. Faculty as members in National committees b)International Committees c)

Editorial   Boards

Sr. No.	Name of faculty	Committee Member	Type (National/International/ Editorial Boards)
1	Dr. U. A. Kshirsagar	International journal of VLSI & communication system 'IJVLSICS	Editorial Boards
		Executive member of IETE Amravati centre	National
		Association of Scientist Forum ASF, Pondicherry.	National

22. Student Projects

a) **Percentage of students who have done in-house projects including**

interdepartmental/programme

Every year, 100% Final year Students of UG and PG do in-house projects

being mandatory as per curriculum.

b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories /Industry/ other agencies.

As per the proposed curriculum of CTAs, respective students have to undergo an in-house summer internship program based on Industry's Problem:

Sr. No.	Academic Year	Number of Students
1	2016-17	09
2	2015-16	18
3	2014-15	00
4	2013-14	00
5	2012-13	00

23.Awards/Recognitions received by faculty and students

a)   Awards / Recognition received by Faculty:

Sr. No.	Name of faculty	Awards	Awarding organization	Type (National/ International/ Institue)	Year
1	Dr. U. A. Kshirsagar	45th ISTE Convention Calcutta National Award	ISTE	National	2016
2	Mr. V. L. Agrawal	Avishkar	SGBAU, Amravati	University	2017
3	Mr. A.B. Kharate	Best Programme Officer Award	Govt. Of Maharashtra	State level	2013-2014
		Best Programme Officer Award	SGBAU,Amravati	University	2013-2014
		Best Achievement NSS Award	HVPM COET	Institute	2014-2015
		Best Achievement NSS Award	IETE Amravati	National	2014-2015
		Best Annual Magazine Award	SGBAU, Amravati	University	2014-2015
4	Mr. A. E. Bhande	45th ISTE Convention Calcutta National Award	ISTE	National	2016
5	Mr. H. P. Oak	Avishkar	SGBAU, Amravati	University	2016

| 6 | Ms. J. Tapar | Avishkar | SGBAU, Amravati | University | 2015 |

c)   **Awards / Recognition received by Student:**

At State/National level competitions

Year	Technical Event	Cultural	Sports	Other
2016-17	5	-	2	-
2015-16	1	3	2	2
2014-15	-	-	4	-
2013-14	-	-	2	-
2012-13	2	7	1	5

c) Achievements: University Rankers

Sr. No.	Name of the Student	University Rank	UG/PG	Academic Year
1	Trupti Bidwai	7	UG	2015-16
2	Huda Anum	6	UG	2015-16
3	Atul P. Dhok	10	UG	2014-15
4	Abhijeet V Sarkate	9	UG	2014-15
5	Ku. Anupriya A. Mishra	2	UG	2014-15
6	Ku. Madhavi R. Mendhe	7	UG	2013-14
7	Ku. Zebunnisa Shaikh	1	UG	2013-14
8	Yukesh M. Kapgate	2	UG	2012-13
9	Vaibhav N. Kalhane	1	UG	2012-13

24. List of eminent academicians and scientists/visitors to the department

Sr. No.	Name of Faculty	Organization
1	Mr. Nitin Ghatpande	Ex Bhramhaprakash Scientist, ISRO, Bangalore
2	Mr. Jaywant Ingle	Ex Scientist, ISRO, Bangalore
3	Dr. K.P. Sarwadekar	Dept. of Electronics, IIT, Varanasi.
4	Prof. Karandikar	Somaya College of Engg. Mumbai.
5	Dr. S. M. Kelo	Siddhivinayaka COE, Khamgaon
6	Prof. N. N. Khalsa,	PRMITR, Badnera
7	Dr. Wasif Ahamad	BNCOE, Pusad
8	Prof. C. N. Deshmukha	PRMI & R, Badnera
9	Dr. Rajesh M. Bodade	Asso. Prof, Military College of telecommunication engg.,Mhow,MP

10	Dr. U. V. Kulkarni	CSE department SGGS institute of engineering, Nanded.
11	Dr. R.R Manza	Marathwada university, Aurangabad
12	Prof. H.R.Chavan	Terva college of Engineering, Navi Mumbai.
13	Dr. Vishram Bapat	Ex-Professor & Head, Electrical Engg, Singhgad Engg Institute, Lonavala
14	Mr. C. Kajwadkar	CCIL, Mumbai
15	Mr. Shrikant Borgaokar	Pioneer Learning System
16	Mr. Mangesh Patankar	Founder & CEO, VEOL Medical technologies Pvt Ltd, Mumbai
17	Mr. Amit Arokar	ECE (India) energies Pvt Ltd
18	Mr.Devdatta Rana	Technical trainer Technocop Technologies ,Gaziyabad,U.P.
19	Mr. Umashankar	Technical trainer, UV soft technologies Pvt. Ltd, New Delhi.
20	Mr. Ranjan Sharma	Director, Robospecies Technologies Pvt. Ltd., Noida.
21	Mr. Rajvardhan Singh	JDM technologies Pvt. Ltd. Nagpur
22	Mr. Mangesh Bharti	MDB Electro soft
23	Mr. Jitendra Deshpande,	Subject matter expert, KPIT, Japan.
24	Mr. Rajesh Bisnt	Zonal manager, Coreel Technologies Pvt. Ltd., Bangalore.
25	Mr. Avinash Suryawanshi	MSEDCL, Amravati
26	Mr. Kanchan Shastri	Executive manager, Nokia, Noida
27	Mr. Anand kumar	Account Manager, PurpleLeap
28	Mr. Swapnil Pawar	business Development(sales) Manager
29	Dr. Anuradha Totey	JCI, Member
30	Dr. Mohana Kulkarni.	JCI, Member
31	Mr. Govind Khatri	Ex. Student
32	Vabhav kalane	Ex. Student
33	Mr. Ranjan Sharma	Ex. Student

25. **Seminars/Conferences/Workshops organized & the source of funding**

a) National

Sr. No.	Date	Title	Seminars/Conferences/Workshops	Source of Funding	Academic Year
1.	13th June 2016 to 22nd 2016	FPGA based Image Processing & VLSI	Two week STTP	H.V.P.M'S.CO.E.T	2016-17
2.	6th and 7th October 2015	Quad copter	Two day work shop	H.V.P.M'S.CO.E.T	2015-16
3.	21, 22th Aug. 2014	PCB Design	Two day work shop	H.V.P.M'S.CO.E.T	2014-15
4.	5,6, Aug. 2013	Advanced Intelligence	Two day work shop	H.V.P.M'S.CO.E.T	2013-14

| 5. | 18-27th Nov. 2013 | Image processing, artificial intelligence and its applications. | Two week STTP | H.V.P.M'S.C O.E.T | 2013-14 |
| 6. | 24 Sept to 6th Oct 2012 | Embedded System. | Ten days workshop | H.V.P.M'S.C O.E.T | 2012-13 |

(Robotics is shown at the top of the first cell above row 5.)

b)   International

Sr.No.	Date	Title	STTP/Training/ Workshop/Confe rence	Duration	Funding Agencies	Venue
1.	9,10,11 January 2016	International Conference	International Conference on Challenges & Opportunities in Technical Educations in the Era of Sustainable Development	3 Days	ISTE, New Delhi	H.V.P.M. COET

26.   Student profile programme/course wise:

Name of the Course/ programme	Academic Year	Applications received	Selected	Enrolled		Pass percentage
				*M	*F	
UG	2012-13	1. Admission process is centralized & carried out by admission regularity authority/DTE/State Govt.		64	68	82.05
	2013-14			55	82	93.16
	2014-15			57	57	87.60
	2015-16	2.Admissions are invited, received by centralized admission process		56	73	77.39
PG	2012-13			NA	NA	NA
	2013-14			7	17	NA
	2014-15	3.Selected students directly report to college		7	17	25
	2015-16			5	17	17

*M=Male *F=Female

27.   Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad

UG	99%	1%	Nil
PG	100%	Nil	Nil

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Sr. No.	Name of Examination	Number of students cleared
1	GATE 2016	03
2	BSNL	02

29. Student progression

Student progression	Against % enrolled			
Academic Year	2012-13	2013-14	2014-15	2015-16
UG to PG	11.53	14.52	12.1	11.5
PG to Ph.D	Nil	Nil	5	2.5
Ph.D to Post-Doctoral	Nil	Nil	Nil	Nil
Employed •Campus selection •Other than campus recruitment	13 62	9 58	50 25	20 47
Entrepreneurship/Self-employment	Nil	5	Nil	Nil

30. Details of Infrastructural facilities

a) i) Central Library

Description	Quantity in number	
Books for students	Title	1276
	Volumes	6293
Technical Journals	National	18
	International	Desirable
	E-Journal	4-packages
Technical Magazine subscribed	02	
News paper	17	
Educational CD's	179	

ii) Departmental Library

Sr. No.	Category	Number of Books
1	Study and Reference books	99
2	Course material books	36
3	Magazines	20
	Total	155

b) Internet facilities for Staff & Students

Sr. No.	Description	Quantity in Numbers
1.	Computers	49
2.	Computer with Internet Facilities	49
3.	Bandwidth	50 Mbps
4	Network Facilities for all Computers	All
5	Printers	07
6	Scanner	01
7	Plotter	--
8	LCD Projector	05
9	External DVD	With all Computers

c) Class rooms with ICT activity

Sr. No.	Description	Numbers of Rooms
1.	Class room with black Board, Projector and Internet Facility	03
2.	Seminar Hall with White Board, Projector and Internet Facility	01

d) Laboratories

i)   Infrastructure

Sr. No.	Name of Laboratory for UG & PG course	Room Code No.	Carpet Area in sq.m.
1	Digital Signal Processing	BF01	66.2
2	Microprocessor and Microcontroller	BF02	66.5
3	Communication Lab	BF06	90.67
4	Research Lab	BF07	66.2
5	UHF/Power Lab	BF12	66.03
6	Analog and Digital Ckts.	BF13	66.05

ii)   List of Equipments

	Laboratory Description	Major Instruments	
1	Electronic devices & circuit Lab	1) 20 MHz Dual-Trace Oscilloscope	(02)
		2) 20 MHz Dual-Trace oscilloscope with built in Function generator	(03)
		3) CRO with Logic scope	(01)
		4) Digital L-C-R-Q Bridge model	(01)
		5) Scientech make analog Trainer-Lab	(03)
		6) Scientech make digital Trainer Lab	(01)

		7) Linear cum Digital IC tester (01) 8) 25 MHz Dual-Trace Oscilloscope (02) 9) Electronics Devices & Circuits Experimental Kits (07)
2	Digital Signal Processing Lab	Altera Quartus II(for complete PCs in Lab), Multivender universal VLSI prototype, Multisim 8 spice education software, MATLAB, INTEL Pentium Desk top -12, Wipro Desktop-08, HP Laser Printer 1010, Canon Laser Printer-01 ,Lenovo Desktop -02
3	Research Lab	CMOS VLSISoftware(MicrowindPackage) DSCH3MICROWIND3, Embedded Trainer kit (Trainer kit for ARM7), ARM7 development board, Convolution encoder &viterbidecoder kit Model no. DLC -07, Delta/Sigma delta & adaptive delta modulation/demodulation kit Model no. DLC -07, CRC Encoder/Decoder & MSK modulation/Demodulation kit Model no. ADCL 08, Error Detection and correction cyclic codes-111287 Model no. Scientech 2120, Lenovo Desktop -13, Spartan-6 Development board with on board device-02, Vertex-5 Development board with device-01, ADC-DAC add on card-02, Spartan 6 DSP protoboard with on board device-02, Netsim Academic license version 7, AMITECH Microwave/MIC Trainer MIC 40-01, HP Laser Printer 1020
4	Microcontroller & Microprocessor Lab	1) Dynalog 8085 Microprocessor Kit (08) 2) Anshuman8085Microprocessor Kit (01) 3) Interfacing study cards (44) 4) Universal Programmer (01) 5) C.R.O (02) 6) Dell PC (10) 7) Nvis -5001A Microcontroller kit (02) 8) Nvis Microcontroller Interface Module (08)
5	Microwave Test Bench (UHF)Lab.	Klystron Test Bench. (02) Gunn Based Test Bench. (02) C.R.O. Tech. Lab.With Logic Scope. (01) C.R.O. 25,30Mhz(02). Computer With Printer (RICOH). (01) Digital Multimeter. (02) Analog Multimeter. (01)
6	Power Electronic Lab.	01) Characteristics of SCR. (03) 02) Characteristics of DIAC. (03) 03) Characteristics of TRIAC. (03) 04) HW/FW Controller Rectifier. (03) 05) Parallel Inverter. (01)

		06) Series Inverter. (01) 07) DC (SCR) Chopper. (03) 08) DC Motor Control Using SCR. (02) 09) Bedford and Parallel Inverter. (01) 10)C.R.O. 20,30Mhz with FG. (12) 11)Power Supply. (13) 12) Digital Multimeter. (15)
7	Instrumentation Lab.	01) Measurement of Control of Temp. Using Thermocouple (02) 02) Inductive pick up. (01) 03) Displacement of LVDT. (02) 04) Angular Displacement Using Capacitive Transducer. (02) 05) Level Measurement Using Capacitive Transducer. (02) 06) Temperature Measurement & Control R.T.D. (01) 07) Temperature Measurement & Control Thermister (01) 08) Strain Gauge Trainer. (01) 09) Pressure Measurement Using Silicon Pressure Transducer (01) 10) Temp. Measurement Using Optical Radiation Pyrometer. (01) 11) C.R.O. 20,25,30 MHz With FG. (03) 12)Function Generator 2 Mhz. (01) 13) Digital Multimeter. (02) 14) Analog Multimeter. (01)
8	Analog & Digital integrated circuit lab	1) Scientech make analog Trainer-Lab (01) 2) Scientech make digital Trainer Lab (05) 3) 20 MHz Dual-Trace Oscilloscope (02) 4) CRO with Logic scope (01) 5) 20 MHz Dual-Trace oscilloscope with FG (02) 6) 25 MHz Dual-Trace Oscilloscope (02) 7)30Mhz oscilloscope (05) 8) Function generator (04) 9)Trainer Kits (29) 10)Power Supply (19)
9	Communication Lab	1) 30 MHz CRO (07) 2) 20 MHz Dual-Trace oscilloscope with FG (02) 3) Advance fiber optic Trainer (01) 4) 20 MHz Dual-Trace Oscilloscope (02) 5) CRO with Logic scope (01)

6) 25 MHz Dual-Trace Oscilloscope	(02)
7) Antenna trainer	(01)
8) Colour TV trainer	(01)
9)Digital Storage oscilloscope	(01)
10) Spectrum Analyser	(01)
11) Comm.Experimental kits	(23)

31. Number of students receiving financial assistance from college, university, Government or other agencies

Agency	Number of students receiving financial Assistance			
	2012-13	**2013-14**	**2014-15**	**2015-16**
College (TFWS)	03	03	03	03
University	Nil	01	01	02
Government of Maharashtra	308	381	351	335
GATE Assistantship	Nil	01	02	01
Lila Poonawala Foundation	Nil	Nil	02	07

32. Details on student enrichment programmes (special lectures/workshops/ seminar) with external experts

Sr. No.	Academic Year	Title of Workshop	Duration	Date	No. of faculty attend	No. of students attend	Approved or Sponsored (ISTE, IETE, Industry etc)
1.		Scope in Telecommunication	1	8-Aug-12	10	All	-
2.		Ten days workshop on Embedded System.	10	24 Sept to 6th Oct 2012	05	51	Purple Leap
3.	2012-13	Competitive Exam	1	15-Jan-13	20	All	-
4.		How to develop business	1	23-Feb-13	05	All	-

5.		Guidelines for entrepreneurship	1	14-Mar-13	04	All	-
6.		Guest lecture on Responsibility before and post marriage	1	22th Jan.2014	10	All	-
7.		Guest lecture on professionalism for women.	1	21st Jan. 2014	06	All	-
8.		Guest lecture on Personality Development And Grooming for Girls.	1	17 Jan. 2014	06	All	-
9.	2013-14	How to make a carrier	1	5-Mar-14	12	All	-
10.		Image processing, artificial intelligence and its applications	15	18-27th Nov. 2013	18	All	ISTE appr.
11.		Technical training	1	17-Mar-14	12	All	-
12.		PCB Design	1	24-Apr-14	12	All	-
13.		Network communication	1	14-Aug-14	12	All	-
14.		What After B.E.?	1	18-Sep-14	02	120	-
15.	2014-15	How to prepare interview	1	13-Feb-15	02	120	-
16.		How to crack Govt. exam	1	5-Mar-15	14	All	-
17.		Automation in day to day life	1	1-Apr-15	18	All	-
18.		trends in VLSI	1	24th Aug. 2015	12	All	-
19.	2015-16	Undergraduate engineering programs(TIER-	1	8th Aug 2015	24		-

		II)					
20.		Entrepreneurships	1	9-Sep-15	20	All	-
21.		Ethical hacking	1	6th July 2015	18	All student	-
22.		Embedded Systems & Internet of Things	1	31stof January 2016	22	All	-
23.		Technical training	1	3-Feb	20	All student	-
24.		Introduction to Raspberry Pi	1	10-Mar-16	22	All student	-
25.		SCADA	1	21-Apr-16	20	All student	-
26.	2016-17	FPGA based Image Processing & VLSI	15	13thJune 2016 to 22nd 2016	24		ISTE appr.

33. **Teaching methods adopted to improve student learning**

1. Department has initiated FDP (Faculty development programme) for every subject. The senior faculty members guide the other faculty members of the subject in understanding the fundamentals. Common strategies are finalized by senior faculty.

2. Notes of various units, standard readings in lab are prepared right at the beginning of semester. This activity helps the faculty members of the same subject to maintain uniformity across various classes.

3. To inculcate the knowledge delivery skills a faculty induction program was conducted at the institute level.

4. Faculty members from department are also encouraged to take up programs like Mission 10X which is framed in accordance with the need of teachers to develop teaching skills.

5. As a part of class room teaching various methods are adapted to improve the learning process.

Following list mentions these methods

a. Assignments are given to students based on each unit.

b. Power point presentation and OHP are used by faculty members for better delivery of the subject.

c. Use of software to demonstrate the concepts in theory.

d. Tutorials are organized for improving the problem solving skills.

e. Industrial visits are organized.

f. Guest lecturers of eminent personalities from academic institute as well as Industries are organized to enhance the student's knowledge.

g. Workshops are conducted to provide hands- on for students.

h. Summer, winter trainings and internships program are organized to bridge the gap between theory and practical.
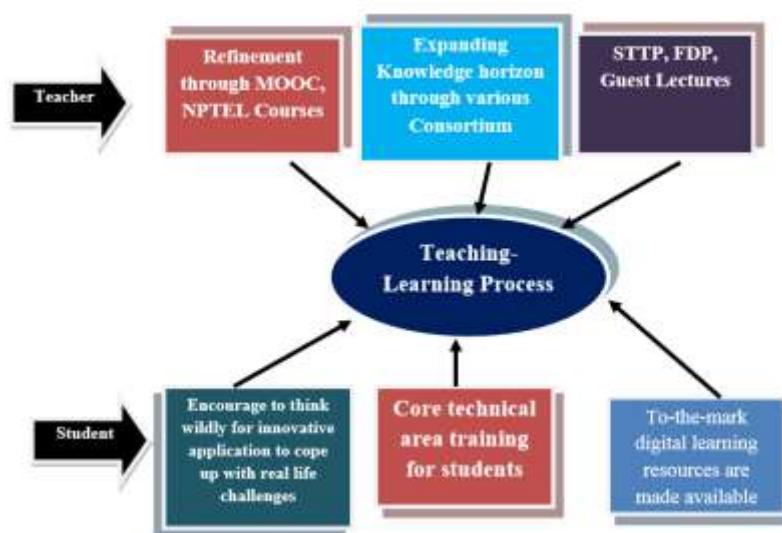
Fig.: Methods adopted to improve student learning

34. Participation in Institutional Social Responsibility (ISR) and Extension activities.

Our Department along with institution always tried for the holistic development of the students and encourages them for participation in the various social activities. At department following activities are performed:

- Arranged the program on Inner-Engineering on birth anniversary of Swami Vivekanand

- Self defence activity
- Arranged Expo to create awareness about importance of Swachha Bharat Abhiyan.
- Cyber security awareness programs.
- Celebration of Women's Day
- NSS (National Services Scheme).
- Celebration of Digital India Week (1st to 7th July 2015).
- Tree plantation.
- Visit to orphanage/ Old Age Home.
- Green conference.
- Independence & Republic day celebration
- 25th of every month is celebrated as environment day or no vehicle day.
- Social Gathering (Tarang).
- Industrial Visit.
- Blood donation camp.
- Blank page bank
- Making the college playground available to neighboring industries and communities on weekends.
- Sharing computer Lab for the under priviledged 11th and 12th students from neighboring college.
- Yoga Day on 21st June.
- Green day celebration.
- Workshop on Women sexual harassment at work place

35. SWOC analysis of the department and Future plans

Strengths:

- Department has diverse specialization knowledge of Faculties, which promotes to undertake inter-disciplinary research.
- Young, Energetic, Qualified & Experienced Faculties.
- Identified competent students are provided with specialized pedagogy through the way of CTA (Core technical area) so as to bridge academia-Industry gap.

- The CTA domains are so identified as to match the current state-of-art fields in industry.

- Department strives for attainment of highest learning goals- creativity and evaluation.

- Learning oriented faculties adopting innovative teaching – learning methodologies.

- Fully equipped laboratories and workshops with scope of conducting practical more than list of practical prescribed in affiliated university curriculum.

- Adequate infrastructure having pleasant ambiance with scope of expansion.

- Implementation of KYSS – Know your Student & Know your Subject for effective learning of students.

- Faculties and Parents Handhold efforts for overall development of students.

- Weekly and monthly academic review report generation for tracking academic progress.

- Students' Feedback system for understanding students Queries / Issues related to academic, co-curricular, extracurricular other students relevant activities

Weaknesses:

- Many students come from poor socio-economic and rural background; have low academic background, weak communication skills and presentation skills.

- Located in Industrially underdeveloped region and highly feminine prone area.

- Constraints of financial resources being Self-Financed Unaided institute.

- Entry level students are lacking with pre-requisite knowledge.

Opportunities:

- The spark of students and faculties can attract various corporate funding to establish center of excellence for labs

- Good Industry-Institute Interaction of faculties of department can fetch renowned dignitaries from industry for enhancing technical skills of students and placements as well.

- To develop more number of domain specific knowledge and skills based employability enhancement programme

Challenges:

- Heterogeneity in learning ability of students.
- Heterogeneity in socio economic background of students.
- Reducing Trend towards opting for engineering as a profession.
- Need to find a way so as to improve the placement ratio in the core electronics industry.
  - Poor interpersonal and communication skills of students.

Future Plans:

- Organization of funded faculty and student development programs of interdisciplinary nature like ISTE funded STTPs, DST funded FDPs, etc.
- To become a center of excellence in Embedded Systems and VLSI.
- To become a part of "SHAKSHAT"- An Initiative of Ministry of Human Resource Development (MHRD) Under the National Mission on Education through ICT
- To be a NPTEL Local Chapter.
- To establish E-Yantra Lab (An initiative to spread education in Embedded systems and Robotics by IIT Bombay sponsored by Ministry of Human Resource Development through the National Mission on Education through ICT).

Evaluative Report of the Department

1. **Name of the Department :** Information Technology

2. **Year of Establishment:** 2002

3. **Name of Programmes/Courses offered :**

   - UG:B.E.(I.T.)

   - PG:M.E.(CSIT)

4. **Name of Interdisciplinary courses and the departments/ units / subjects involved :**

Sr. No.	Name of Interdisciplinary Course	Department Involved
1	Mathematics III	First year Engineering
2	Communication Skill	Humanities teacher
3	Social Science And Engineering Economics	Humanities teacher
4	Environment Studies	First year Engineering

5. **Annual /semester choice based credit system (Programme wise) :** B.E.(I.T.) programmme is semester based credit system, which follows the ordinance and direction given by affiliated university, namely SGB Amravati University Amravati.

6. **Participation of the department in the courses offered by other department :**

Sr. No.	Programmes / Sublect	Offering Department
1	Introduction To computer Network	Electronics and Telecommunication
2	Introduction To computer Network	Mechanical Engineering
3	Database Management System	Mechanical Engineering

7. **Courses in collaboration with other universities, industries, foreign institutions, etc.:**

Sr. No.	Name of Course	Duration
01	Remote Infrastructure Monitoring & Management	80 hours
02	Information and cyber security	150 hours
03	Software testing	90 hours
04	Android developmemt	60 hours

8. **Detail of courses/ programmes discontinued (if any) with reasons** :

Applied for discontinuation of Post Graduate programme in Computer Science & Information Technology as the Students seek admissions in other available course of Computer Science & Engineering.

9. **Number of Teaching posts** :

Sr.no	Teaching Posts	Teaching Posts	
		Sanctioned	Filled
01.	Professors	01	01
02	Associate Professors	03	01
03	Asst.Professors	08	10

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D/Litt./ Ph.D/M.Philletc)**

Name		Qualification	Designation	Specialization	No. of Year of Experience	No. of Ph.D/M.E. sutdents guided for the last 4 year
	Dr. P.L. Ramteke	Ph.D ,M.E(CSE) , M.Phill(CS)	Professor & HOD	AI Expert system design amd Mobile Commuting	19	30
	Mr. M.R. Joshi	M.E.(Digital Electronics), B.E.(EXTC)	Assisstant Professor	DSP	13	10

	Mr. V.S. Gangwani	M.E.(CSE). B.E.	Assisstant Professor	Discrete Structure, Data Structure	13	04
	Dr. R.R. Keole	Ph.D(CSE). M.E.(CSE)	Associate Professor	Database Management System, Data WareHousing	09	20
	Mr.A.W. Hote	M.E.(Appeared), B.E.(CSE)	Lecturer	Web Commerce	12	Nil
	Ku. S.N. Utane	M.E.(I.T), B.E(I.T.)	Assistant Professor	Object Oriented Technology	06	Nil
	Ku. P.D. Chowhan	M.E.(I.T), B.E(I.T.)	Assistant Professor	Software Testing	08	Nil
	Ku. S.G. Anantwar	M.E.(CSE), B.E(I.T.)	Assistant Professor	Software Engineering	07	Nil
	Mrs. S.P. Gawande	M.E.(I.T), B.E(CSE)	Assistant Professor	Information Security	08	Nil

	Mr. H.S. Holey	M.Tech.(SE), B.E.(IT)	Assistant Professor	Software Engineering, DSP	07	Nil
	Ku. N.S. Rizvi	M.E.(CSIT), B.E(I.T.)	Assistant Professor	ALP,RTES	03	Nil
	Mr. A.B. Jangid	M.E.(CSE), B.E(I.T.)	Assistant Professor	Software Testing	01	Nil
	Prof. Babita Kasar	M.E.(CSIT), B.E.(CMPS)	Assistant Professor	Image Processing	03	Nil
	Mr.Taral Shah	B.COM	Adjunct Faculty	Software Testing	14	Nil
	Dr.Shrinivas P. Deshpande	Ph.D, MCA	Adjunct Faculty	Data Mining	18	05

11. **List of senior visiting faculty:**

Session	Name of Faculty	Qualification
2013-14	Dr. S.P.Deshpande	Ph.D, MCA
2014-15	Dr. S.P.Deshpande	Ph.D, MCA
2015-16	Dr. S.P.Deshpande	Ph.D, MCA
2015-16	Dr.S.E.Yede	Ph.D,MSC

12. Percentage of lectures delivered and practical classes handled by temporary faculty: NIL

13. **Student – Teacher Ratio: Programme-wise(2016-2017)**

Sr. No.	Program Name	Number of Students (admitted)	Number of Faculty	Student-Teacher Ratio
1	B.E.	79	10	08
2	M.E.	13	04	3.25

14. **Number of academic support staff (technical) and administrative staff**:

	Sanctioned	Filled
Programmer	01	01
Sr. Technical Assistant	01	01
Lab. Assistant	02	02
Peon	01	01+ 01 (Daily Wages)

15. **Qualification of teaching faculty with DSc/ D.Litt /Ph. D / MPhil / PG:**

Qualification of teaching faculty	Total
Ph.D	02
M.Phill	01
PG (ME/M.Tech)	11

16 **.** **Number of faculty with ongoing projects from National / International funding agencies and grants received**: NIL

17. **Departmental project funded by DST-FIST, UGC, DBT, ICSSR, etc. and total grants received: NIL**

18. **Research Centre. Facilities recognized by the University:** Applied for recognition

Sr.No	Name of Programme	Grant Received
01	MODROB	Applied
02	National Conference	Applied

19. **Publications:**

Sr. no.	Name	No. of papers published in peer reviewed journals (National/ International)	No. of publication listed in international database/ Monograph/ Chapters inbooks/ books Edited/ SNIP/ SJR	Books with ISBN/ISSN numbers	Citation Index (Average)	H-Index (Average)
1	Dr. P.L. Ramteke	15	-	-	-	-
2	Dr. R.R.Keole	76				
3	Mr. M.R.Joshi	11	-	-	-	-
4	Mr. V.S.Gangwani	3	-	1	-	-
5	Mr. A.W.Hote	3	-	-	-	-
6	Ku. S.N.Utane	2	-	-	-	-
7	Mrs. S.P.Gawande	-	-	-	-	-
8	Mr. H.S.Holey	-	-	-	-	-
9	Ku. N. S. Rizvi	4	-	-	-	-
10	Mr. A.B.Jangid	2	-	-	-	-

20. Areas of consultancy and income generated: NIL

21. Faculty as Members in

A] **National Committees**

B] **International committees**

C] **Editorial boards**:

Sr. No	Name of Faculty	Name of the National / Int. Committee / Journal & Editorial Association/Keynote Lectures/Invited Lectures/Session Chair, Board Member / Advisor Board Member to Organisations
1.	Dr. P. L. Ramteke	Associate Editorial Board Member (IJRCIT)

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22. Student Projects:

a) Percentage of students who have done in- house projects including inter departmental projects: 100% students of final year are involved in departmental projects.

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies: 36%

23. Awards / Recognitions received by faculty and students:

A) Faculty Award/ Recognition

Sr. No.	Name of the Faculty /PhD Scholar	Name of Award / Fellowship	Year
1.	Dr. P. L. Ramteke	Avishkar	2014-15
2.	Ms. P.D.Chowhan	Avishkar	2014-15

B) Students Award/Recognition

Year	Sr. No.	Name of Students	No .of Participate	Name of Event	Place	Rank
2012-13	1	Mr.AkshayDikshit Mr.Hrushikesh Joshi Ms.Vishal sigh Thakur Ms. Shraddha Mahulkar	4	National level project competit ion on " Ball tracking "	Tulsiramji Gaikwad College Of Engg. Nagpur	3rdPrize
	2	Mr.VaibhavSaware	1	Chess competit ion	SGBAU	selected for State
	3	Sneha Lahane Pranaya Bhoyar	2	National Level Technical Paper	Prof Ram Meghe Institute of Technology &	2nd Prize

			Presentation on "Nokia Morph".	Research, Badnera	
	4	Aamir Khan Swati Gupta	2	Project competition on " Sport Simulator For Athletes " (Global Conference)	H.V.P.M's D.C.P.E Amravati	1st position
	5	AakashPethe Ms.Snehal challani Sadhna Aandhale.	3	Project competition on " Sport Simulator For Athletes " (Global	H.V.P.M's D.C.P.E Amravati	Third position
2013-14	1	Sneha lahane Bavika Pandya Pranaya Bhoyar	3	National Level Technical Paper Presentation	Ram Meghe Institute of Technology and Research, Badnera	2nd prize
	2	ZubairMakrani Akash Bijwe	2	Web page design	Inter-national Tech-Fest (TECHELONS-2014).	3rd prize
	3	Minal Mahure	1	paper in national conference on Mobile Computing	MIT,PUNE	Best paper presentation honor.
	4	Neha Gore Chaitali Kolhe Harshada	4	National Level Technica	IBSS collge of Engg. Amravati	2nd prize

		Deshmukh		l Paper Presentationon "Secure ATM by Image Processing".		
		Yamini Mishra				
	5	Rinku Kiran Nagrale	1	folk dance at state level youth festival Dance Completion	Shri TuljaBhawani Jilha Stadium, Usmanabad	selected
	6	VaibhavSaware	2	Chess competition	SGBAU	Selected for state level
		Vishal Chalwad				
2015-16	1	Prafull Pande	2	Techno Experts 2016 National Level Technical Festival	P.R.Pote Patil College of Engg & Technology Amravati	won IPL Auction
		Tapesh Chalisgaokar				
2016-17	1	Kunal Kasture	1	Prayukti 2017 National Level Technical Festival	Sau.Kamalatai Gawai COET, Darapur	Winner for paper presentation

c) Achievements: University Rankers

Sr. No.	Name of the Student	University Rank	UG/PG	Academic Year
1.	Renuka Sawant	2nd	B.E .(IT)	2012-13
2.	NazneenTarannum Rizvi	10th	B.E .(IT)	
3.	Sapana Gawande	3rd	B.E .(IT)	2013-14
4.	SnehaKalbande	6th	B.E .(IT)	
5.	Javeriya Syed	7th	B.E .(IT)	

6.	Ku. Nazneen S. Rizvi	1st	M.E. (CSIT)	2015-16
7.	Ku. Poonam Sharma	2nd	B.E .(IT)	
8.	Ku. Madhurika Pendake	7th	B.E.(IT)	2016-17

24. List of eminent academicians and scientists / visitors to the department:

a) Eminent Academicians & Scientist

Sr.No	Name of Person	Designation
1.	Dr.Anil Sahasrabuddhe	Chairman ,AICTE,New Delhi
2.	Dr.Pratapsinh K.Desai	President ISTE,New Delhi
3.	Dr.V.S.Sapkal	Prof. & Head Chem.Tech.SGBAU Amravati
4.	Dr.G.D.Yadav	Vice Chancellor,Institute of Chemical Technology(ICT),Mumbai
5.	Dr.Sarda	Prof. &Head CSE IIT Bombay
6.	Dr.Nitin Ghatapande	Ex.Bramha Prakash Scientist ISRO Banglore
7.	Dr.Jayvant Ingle	Ex. Scientist ISRO Banglore
8.	Mr.C.Kajwadkar	Sr. VP and Head IT Clearing Corporation of India
9.	Dr.G.R.Bamnote	Dean E&T SGBAU Amravati
10.	Dr.V.M.Thakare	Chairman BOS CSE ,SGBAU Amravati
11.	Dr.D.N.Chaudhary	BOS CSE, SGBAU Amravati
12.	Mr.Ajay Kumar Meher	Sr.V.P. Information Tech.Multiscreen Pvt.LtdMumbai
13.	Mr.Taral Shah	Sr.VP,SQS India ,BFSI Ltd Mumbai
14.	Mr.Gajanan Padsule	TCS(Mumbai)
15.	Mr.Shekhar Patankar	Vice President & Head Telecommunication Media Bussiness Persistent Systems Pvt.Ltd,Nagpur
16.	Mr.Babu Nair	MD & Group Publisher Global Infomart Mumbai
17.	Dr.Eswarmoorthy M.	Prof. and Head Mechanical Enginnering Dept.VNIT Nagpur
18.	Dr.A.M.Kuthe	Prof & Head Mechanical Engg Dept VNIT Nagpur
19.	Mr.Ravi Eppaturi	CTO at LyncBiz Corporation,earlier Mphasis,Mumbai

b) Visitors to the Department

Sr. No.	Year	Name of Visitor	Organization
1.	2012-13	Mr. Manoj Rai	Network Hub, Nagpur

2.	2013-14	Mr. Shantanu Chande	Soft park, Nagpur
3.	2013-14	Mr. Bhushan Rakhade	VivTech Computer Pvt. Ltd. , Amravati
4.	2013-14	Mr. Anand Jamdade	VivTech Computer Pvt. Ltd. , Amravati
5.	2014-15	Zubair Qurasi	Escurve Solution Pvt. Ltd, Akola
6.	2014-15	Mr. Chittaranjan Kajwadkar	CCIL , Mumbai
7.	2014-15	Mr. Taral Shah	Trisha Global Pvt. Ltd., Mumbai
8.	2014-15	Mr. Nitin Ghatpande	Ex-Scientist ISRO, Banglore.
9.	2015-16	Mr. Gopal Utane	Deshna Academy, GadheNagar, Amravati.
10.	2015-16	Mr.Akshay Kabra	JK Innovative Pvt. Ltd., Amravati.
11.	2015-16	Mr. Chittaranjan Kajwadkar	CCIL , Mumbai
12.	2015-16	Mr. Taral Shah	Trisha Global Pvt. Ltd., Mumbai
13.	2016-17	Mr. Chittaranjan Kajwadkar	CCIL , Mumbai
14.	2016-17	Mr. Taral Shah	Trisha Global Pvt. Ltd., Mumbai
15.	2016-17	Mr. Chaitanya Kunthe & Depaanjali Kunthe	Risk Quotient Pvt. Ltd., Navi Mumbai.
16.	2016-17	Mr. Mandar Kulkarni	Microsoft Corporation, Mumbai.
17.	2016-17	Mr. Jayawant Ingle	Ex-Scientist ISRO
18.	2016-17	Dr. Vishram Bapat	Ex-Professor & Head, Electrical Engg, Singhgad Engg Institute, Lonavala

25. **Seminars / Conference / Workshops organized & the source of funding:**

a) International :

Academic Year 2015-16						
Sr. No.	Date	Title	STTP/Training/Workshop/Conference	Duration	Funding Agencies	Venue
1.	9,10,11 January 2016	**International Society for Technical Education(ISTE)Conference**	It was an 45th Annual National Convention & International Conference on Challenges & Opportunities in Technical Educations	3 Days	ISTE, New Delhi	H.V.P. M. COET

			in the Era of Sustainable Development			
			Academic Year 2012-13				
2.	**2 October 2013**	**Conference on Green Technology**	Conference on "Green Technology" Theme: Scientific & Engineering. Solutions to Environmental Issues in association with Institute of Engineers, Amravati, Satpura Foundation, Kirloskar Vasundara, Nature conservation Club, Indian Water Works Association.	One Day	Self Funding	H.V. P.M. COE T

b) National

Sr. No	Date	Title	STTP/Training/Workshop/Conference	Duration	Funding Agencies	Venue
1	15th Dec to 24th Dec 2016	Big Data Analytics	Short Term Training Program	(Two Week)	Self	HVPM's COET Amravati
2	23rd June 2014 to 28th June 2014	Software Foundation Module I	SWEBOK CERTIFICATE PROGRAM	(One weeks)	Self	HVPM COET, Amravati
3	28th June 2014 to 3rd July 2014	Software Foundation Module II	SWEBOK CERTIFICATE PROGRAM	(One weeks)	Self	HVPM COET, Amravati

4	23rd June 2014 to 3rd July 2014	"Software Engineering" Conducted by IEEE Society	I.S.T.E. approved Short Term Training Programme .	(two weeks)	Self	HVPM COET, Amravati

26. **Student profile programme / Course wise:**

Name of the Course / Programme	Academic Year	Applications received & selected	Admitted	Enrolled		Pass Percentage
				M	**F**	
UG Information Technology	2012-13	1.Admission process is centralized & carried out by admission regularity authority/DTE/State Govt.	56	16	40	91.86%
	2013-14		21	05	16	95.45%
	2014-15		10	03	07	95.56%
	2015-16		18	08	10	91%
PG CSIT	2013-14		24	18	6	-
	2014-15		24	21	3	30.77%
	2015-16	2.Admissions are invited,received by centralized admission process 3.Selected students directly report to college	12	2	10	15.00%

* M=Male   *F=Female

27. **Diversity of Students:**

Name of the course	Academic Year	% of Maharashtra State Students	% of other State Students	% of Students from Abroad
Information Technology	2012-13	100%	NIL	NIL
	2013-14	100%	NIL	NIL
	2014-15	100%	NIL	NIL
	2015-16	100%	NIL	NIL

28. **How many students have cleared national and State competitive examinations such as NET, SET, GATE, Civil Services, Defence Services, etc? - NIL**

29. **Student Progression:**

Student Progression	Against % enrolled
UG to PG	5 %
PG to M.Phil	NIL
PG to Ph.D	NIL
Ph.D to Post-Doctoral	NIL
Employed - Campus selection - Other than campus recruitment	 20% 70%
Entrepreneurship/ Self employment	5%

30. **Details of Infrastructural facilities**:

a) **Library**

   1. Central

Sr. No.	Description	Quantity in Numbers	
1	Books for Students Circulation	Titles	788
		Volumes	3303
		e-journals	04
2	Department Library for Reference	Titles	--
		Volumes	--
3	Technical Journals	National	11
		International	Disrable
		E-Journals	4 Packages
4	Technical Magazine subscribe		02
5	News papers		17
3	Educational CDs (CBTs)		179

   2. **Departmental**

Sr. No.	Description	Quantity in Numbers	
1	Department Library for Reference	Titles	84
		e-journals	04
2	News Papers	The Hitavada(English), Daily Hindustan (Marathi) NaukariSandarbh(Employment News: Marathi)	03

b) **Internet facilities for Staff & Students**

Internet facility for the staff is made available. Students can also avail internet through Wi-Fi facility. 50 Mbps broadband leased line is available in the Institute.

c) **Class rooms with ICT activity**

Internet available in classroom through Wi-Fi facility. Classrooms are provided with LCD projectors and audio/video facility.

d) **Laboratories**

Name of Laboratory	Name of Equipment	Specifications	Quantity
Lab 1(Open Source Lab)	Computer System	WIPRO Desktop Intel/Dual Core 2.5 GHz., 2 GB RAM/160 GB HDD, SATA 18.5" TFT Screen with Speaker, Keyboard, Mouse, Opticak LAN buitin AJY With DVD Writer	20
Lab 2 (Project lab)	Computer System	LENOVO CPU E6700, 3.2 GHz,INTEL G41 CHIPSET,2GB RAM,320 GB HDD,LCD MONITOR 18.5"	13
Lab3 (Database Processing lab)	Computer System	Lenovo H520S, CPU – Core i3, 3.30 4 GB DDR3 RAM, 500 GB SATA HDD, 20" LED Monitor, Lenovo Keyboard, Optical mouse, 10/100/1000 Mbps Ethernet Card, ATX Cabinet	20
Lab4 (RTES Lab)	Computer System	Intel Pentium G2030 Dual Core 3.00 GHz, Mother Board 4GB DDR2 RAM,500 GB HDD,DVD R/W/SATA ,18.5" WIDE TFT CLR	17
Lab5(EDC Lab)	Kit	1) Scientech ST 2612 Analog Lab (Local ST.No. : T.No. 2317050 2) Central S.T.No. :0112/XIV/1QQ1/C	3
		IM-05 5 x 4 Matrix Keyboard Interface	01
		NV5586 Advanced 8086 Microprocess Trainer	01
		IM-09 8 Channel 8 Bit ADC	01
		IM-10 2 Channel 8 Bit ADC	01
		NV- 5001 Microcontroller	01

		Development Board with Programmer Clocked at 11.0592 MHz. RS 232 Interface PC Programming Input/Output & Test Points provided on board with on brade board option	
		NVIS Make NV 6556 Multiplex Trainer	01

31. Numbers of students receiving financial assistance from college, university, government or other agencies

Agency	Number of students receiving financial Assistance			
	2012-13	**2013-14**	**2014-15**	**2015-16**
College (TFWS)	03	03	03	03
University	Nil			
Government of Maharashtra	90	135	113	105
GATE Assistantship	Nil	Nil	Nil	Nil
Lila Poonawala Foundation	Nil	Nil	01	02

32. **Details on students enrichment programmes (special lectures / workshops/ seminar) with external experts**

Academic Year	Special Lectures / Workshops/ Seminars	Title	Date	External Experts
2012-13	Seminar	Ethical Hacking	19-1-2013	Mr. Manoj Rai
2012-13	workshop	Ethical Hacking & Data Security	02-02-2013 to 03-02-2013	Mr. Manoj Rai
2013-14	Seminar	Android OS	25-07-2013	Mr. Shantanu Chande
2013-14	Seminar	Introduction to IT and ComputingIndustry	20-07-2013	Mr. Uday Kadam
2013-14	Seminar	Android Operating System	24-1-2014	Mr. Bhushan Rakhade
2013-14	Workshop	Android And Its Application	13-02-2014 to	Mr. Anand Jamade

			18-02-2014	
2014-15	Seminar	DataWare House and Web Minning	03-02-2015	Mr. Zuber Qurasi
2015-16	Seminar	Awareness of MPSC and UPSC Examination	24-07-2015	Mr. Gopal Utane
2015-16	Seminar	Asp.Net Technology	31-07-2015	Mr. Akshay Kabra
2015-16	Seminar	Network Security	28-01-2016	Mr. Manoj Rai

33. **Teaching methods adopted to improve students learning:**

At Department various activities are conducted for improving student learning. These activities are conducted along with academics. The activities are as follows:

- PPT
- Videos
- Digital School
- Group Discussion
- Brain Storming
- Role Play
- Quiz
- Techno-Aptitude
- Hackathon

- Class Test
- Re-Test
- Common Test
- Improvement Test
- Remedial Classes
- Assignments
- Site visits
- Industrial Visits
- Flipped Learning

34. **Participation in Institutional Social Responsibility (ISR) and Extension activities:**

Sr. No.	Nature of Services
1	Blood donation Camp
2	Participation in NSS Camp
3	Tree Plantation
4	Social awareness rallies
5	Help to orphanage & Old age home
6	Cyber Security awareness programmes in Schools/Jr. College
7	Awareness programme about opportunities in technical education
8	Awareness about programmes of Demonetization, use of cashless systems, Swacch Bharat Abhiyan
9	Womens empowerment programme, Sensitization

35. **SWOC analysis of the department and Future plans**

Strengths:
1) Qualified experience and dedicated faculty.
2) TwoPh.D staff &Eigth with Post Graduation (M.E/M.Tech.)
3) Well equipped laboratories
4) Systematic monitoring of teching-learning process.
5) Representation of faculty in university governance.
6) Effective Guardian scheme
7) Remedial measures for academically weaker students
8) Liaison with parents
9) 24*7 Internet facility for students
10) Departmental library for students reference

Weaknesses:
1) Lower merit sutdents
2) Students with poor communication skills

Opportunities:
1) To attract better quality students
2) To enhance industry-department interaction.

Challenges:
1) Poor communication skills and fundamentals of students
2) Declining admission trends towards engineering education

Future Plans:
1) Effective use of ICT for teaching-learning process
2) To make avail study material for students on Moodle.
3) Use of Moodle for conduction of tests.
4) To acquaint students with the concept of Virtual labs.

Evaluative Report of the Department

1. **Name of the Department :** Mechanical Engineering

2. **Year of Establishment   :** 2014

3. **Name of Programmes /Courses offered :** Bachelor of Engineering

4. **Name of Interdisciplinary courses and the departments/ units / subjects involved :**

Sr. No.	Department	(FE/SE/TE)	semester	course
1.	First Year Engineering (Applied Science & Humanities)	FE	I & II Group A	Applied Mathematics-I
2.				Engineering Mechanics
3.				Applied Physics
4.				Engineering Drawing
5.			I & II Group B	Applied Mathematics-II
6.				Applied Chemistry
7.				Electrical Engineering
8.				Computer Programming
9.		SE	III	Applied Mathematics-III
10.			IV	Environmental studies
11.	Electronics & Telecommunication Engineering	SE	IV	Basic Electric Drives & Control
12.		SE	V	Measurement Systems
13.		TE	VI	Control System Engineering
14.	Information Technology	TE	V	Introduction to computer Network
15.	Computer Science and Engineering	TE	VI	Data Base Management System
16.		TE	VI	Computer Software Application
17.	Dept. of Masters of Business Administration	TE	VI	Communication Skill

5. **Annual /semester choice based credit system (Programme wise) :**

Sr. No.	Engineering / Technology	Annual / Semester Credit System
1	UG	Semester Credit System

6. **Participation of the department in the courses offered by other department**

Sr. No.	Department	(FE/SE/ TE/BE)	semester	Course
1.	First Year Engineering (Applied Science & Humanities)	FE	I & II GROUP A	Engineering Mechanics
2.			I & II GROUP A	Workshop – I
3.			I & II GROUP B	Workshop – II

7. **Courses in collaboration with other universities, industries, foreign institutions, etc. :** Nil

8. **Detail of courses/ programmes discontinued (if any) with reasons :** Nil

9. **Number of Teaching posts :**

Cadre wise Teaching Faculty	2016- 2017	
	Sanctioned	Filled
Professor	01	----
Associate Professor	01	----
Assistant Professor	04	06
Adjunct Faculty	02	02

10. **Faculty profile with name, qualification, designation, specialization:**

Sr. No.	Name	Qualification	Designation	Specialization	No. of Years of Experience			No. of Ph.D. Students guided for the last 4 years
					Industry/ Research	Teaching	Total	
01	Mr. Amol A. Karmarkar	ME (Prod. Tech. Mngt.), MBA (Marketing), PGDOM	Asst. Prof.	Production Technology, Operation Management Marketing Management, Ergonomics, Industrial Manageme	01	12.5	13.5	Nil

02	Mr. Prafull V. Shahare	Ph. D. (Perusing), ME (Heat & Power Engg.)	Asst. Prof.	Heat & Power Engg., Thermal Engg., Non Conventional Energy Sources	Nil	07	07	Nil
03	Mr. Parag P. Akarte	M.Tech. (CAD-CAM)	Asst. Prof.	Manufacturing Processes	Nil	1.5	1.5	Nil
04	Mr. Pankaj R. Jaiswal	ME (Design)	Asst. Prof.	Design Engg.	02	06	08	Nil
05	Ms. Yogita B. Bhagat	ME (CAD-CAM)	Asst. Prof.	Production Technology, Mechatronics	Nil	08	08	Nil
06	Mr. Nachiket P. Kherde	ME (CAD-CAM) Perusing, BE (Mech. Engg.)	Lecturer (Pro – Term)	CAD	Nil	3	3	Nil
07	Dr. Bankatlal N. Jajoo	Ph. D., M.Tech. (Heat & Power)	Adjunct Faculty	Heat & Power, Thermal Engg.	05	35	40	
08	Mr.	B.E.	Adjun	Solar	06	02	08	Nil

Shrivalabh N. Pusegaonkar	(Production Engg.)	ct Faculty	Engineering				

11. List of senior visiting faculty: 01

Sr. No.	Faculty Name	Institute Name
1	Dr. A.D. Shirbhate	PRMIT& R, Badnera, Dist. Amravati

12. Percentage of lectures delivered and practical classes handled by temporary faculty: Nil

13. Student – Teacher Ratio: Academic Year 2016 - 17

Sr. No.	Program Name	Number of Students (admitted)	Number of Faculty	Student-Teacher Ratio
1	B.E.	136	08	17

14. Number of academic support staff (technical) and administrative staff:

Description	2015-2016	
	Sanctioned	Filled
Technical support Staff	02	02
Administrative Staff	-----	-----

15. Qualification of teaching faculty with DSc/ D.Litt /Ph. D / MPhil / PG :

Qualification	Total
DSc	----
D.Lit	----
Ph.D.	01 (Adjunct Faculty)
Ph. D. pursuing	01
P.G. (M.E./M.Tech.)	04
P. G. Pursuing	01
U.G. (B. E.)	01

16. Number of faculty with ongoing projects from National / International funding agencies and grants received : 01

NAME OF FACULTY	PROJECT NAME	FUNDING AGENCY	FUNDS RECEIVED (Till Date)
Mr. Amol	AICTE - PMKVY – T1	AICTE	60,375/- (Out of

A. Karmarkar	Program (Telecom Terminal Equipment Application Developer – Android)		2,01,250)

17. Departmental project funded by DST-FIST, UGC, DBT, ICSSR, etc. and total grants received: NIL

18. Research Centre Facilities recognized by the University: Nil

19. Publication: Faculty

Paper Publication (In last four years)

Sr. No.	Name of the Faculty	Publications				Total
		National Journal	**International Journal**	**National Conference**	**International Conference**	
01	Mr. Amol A. Karmarkar	Nil	01	Nil	Nil	01
02	Mr. Prafull V. Shahare	Nil	02	Nil	Nil	02
03	Mr. Parag P. Akarte	Nil	Nil	Nil	01	01
04	Mr. Pankaj R. Jaiswal	Nil	01	Nil	Nil	01
05	Ms. Yogita B. Bhagat	Nil	02	Nil	Nil	02
	Total	Nil	06	Nil	03	07

Books with ISBN. ISSN numbers with details of Publisher: (In last four years): - Nil

20. Areas of consultancy and income generated: Nil

21. Faculty as members in national committee, International committee and Editorial board: Nil

22. Student Projects: NIL (Course started in the year 2014-15)

23. Awards/Recognitions received by faculty and students:

A) Faculty Award / Recognition : Nil

B) Students Award / Recognition :

Academic Year	Name of student	Year	Event	Level	Award / Rank
2016 - 17	Mr. Akshay Bondre	TY	X-plore 17 - Project Presentation At Jagdamba COET,	State Level	3rd prize

			Yeotmal Dt. 22nd ad 23rd February 2017		
	Mr. Hrushabh Lodam	SY	Yuva 17 Aptitude Test Engineering India conducted by Vidarbha Vaibhav	Vidarbha Region	2nd Prize

24. List of eminent academicians and scientists / visitors to the department:

Sr. No	Name of Person	Designation
1	Dr. N. W. Kale	Principal, PRMITR, Badnera
2	Dr. S.G. Patil	Principal, IBSS College of Engg., Ghatkheda. Dist. Amravati
3	Dr.A.M.Kuthe	Prof & Head Mechanical Engg Dept VNIT Nagpur
4	Dr.Vishram Bapat,	Prof. Electrical Engg Sinhgad College of Engg, Pune
5	Dr.Nitin Ghatpande	Ex.Bramha Prakash Scientist ISRO Banglore
6	Mr.C.Kajwadkar	Sr. VP and Head IT Clearing Corporation of India, Mumbai
7	Mr. T. G. Chauragade	GM Works & HR,BHEL Bhopal
8	Mr. Hiraman Aher	VP, Mahindra & Mahindra Nashik
9	Mr. Anilchandra Gandagule	Independent Sr. Electrical Consultant, Pune
10	Mr.Chandrakant Gudewar	Commissioner, Municipal Corporation, Amravati
11	Mr. Sumit Palpani	Manager Chassis Design, Tata Motors, Pune

25. Seminars / Conference / Workshops organized & the source of funding: - Nil

26. Student profile Programme / Course wise:

Name of the Course / Programme	Academic Year	Year	Applications received	Selected	Enrolled		Pass Percentage
					M	F	
UG B.E. Mech. Engg.(Course started in 2014-15)	2014-15	FY	1. Admission process is centralized & carried out by admission regularity authority /DTE/State Govt. 2. Admissions are		23	02	20
	Total				23	02	
	2015-16	FY			50	06	51.78
		SY			61	14	40
	Total				111	20	
	2016-17	FY			52	01	Awaited

		SY	invited,received by	61	14	Awaited
		TY	centralized admission	48	13	Awaited
	Total		process	161	28	
			3. Selected students directly report to college			

27. Diversity of Students:

Name of the course	Academic Year	Year	% of Maharashtra State Students	% of other State Students	% of Students from Abroad
B.E. Mech. Engg.	2014-15	Ist Year	100	---	---
	2015-16	Ist & IInd Year	100	---	---
	2016-17	Ist, IInd & IIIrd Year	100	---	---

28. How many students have cleared National and State competitive examinations such as NET, SET, GATE, Civil Services, Defence Services, etc? : Not applicable

29. Student Progression: Not applicable

30. Details of Infrastructural facilities:

c) **Library**

Sr. No.	Description	Quantity in Numbers	
1	Books for students circulation	Titles	182
		Volumes	2087
2	Department Library for Reference	Titles	13
		Volumes	15
3	Technical Journals	National	06
		International	00
		e-journals	04 Packages
4.	Technical Magazines Subscribed		02
5.	News Papers		17
6.	Educational CDs (CBTs)		179

d) **Internet facilities for Staff & Students**

Sr. No.	Description	Quantity in Numbers
1.	Computers	21
2.	Computer with Internet Facilities	00
3.	Bandwidth	50 mbps
4	Network Facilities for all Computers	19

5	Printers	01
6	Scanner	01
7	LCD Projector	01
8	External DVD	01

e) Class rooms with ICT facility

Sr. No.	Description	Numbers of Rooms
1.	Class room with black Board/LCD	02
2.	Class room with Internet facilities	02 (Wi-fi)

f) Laboratories for UG

Sr. No.	Name of Laboratory for UG course	List of Major Equipments
1	Energy Conversion – I	1. Babcock & Wilcox Boiler Model 2. Locomotive Boiler Model 3. Benson Boiler Model 4. Lever Safety Valve Model 5. Spring Loaded Safety Valve 6. Dead Weight Safety valve 7. Water Guage Model 8. Pressure Guage Model 9. Blow off Cock Model 10. Fussible Plug Model 11. Green Economiser Model 12. Sudgeon Superheater Model 13. De laval turbine Model 14. Press and Velocity Compounded Steam turbine 15. Jet Condenser Parellel Flow 16. Surface Condenser Model 17. Air preheater Model
2	Computer Software Application – I & II	1. 20 Computer systems with Licencsed Auto Cad 2014
3	Theory of Machines – I & II	1. Model of Geneva drive, 2. Model of Coupled wheel of Locomotive 3. Model of Beam Engine 4. Model of Inversion Single Slider Crank chain 5. Model of Inversion Rotary I.C. Engines 6. Model of Oldham Coupling 7. Model of Elliptical Trammel 8. Model of Inversion Whitworth quick return mechanism 9. Model of Inversion Crank and Slotted lever quick return mechanism

		10. Model of Inversion Double Slider Crank Chain
		11. Model of Inversion Scotch Yoke Mechanism
		12. Models of Different types of :- Cam & Followers (set of 5)
		13. Models of Mechanically operated braking mechanism for two wheelers – Internal expanding shoe brake
		14. Model of Rope Brake Dynamometer
		15. Model of Single plate clutch
		16. Model of Multi-plate clutch
		17. Model of Centrifugal Clutch
		18. Model of Cone clutch
		19. Model of Epicyclic gear trains
		20. Model of Reverted Gear Train
		21. Model of Ackerman's Steering gear mechanism
		22. Model od Davis Steering Mechanism
		23. Static and dynamic balancing of machine (Yamuna Make)
		24. Determination of gyroscopic couple.
		25. Experiment on whirling speed of shaft.
		26. Dynamic force analysis of four bar mechanism
		27. Experiment on free and damped vibration of systems with one degree of freedom.(VIB LAB Apparatus)
4	Fluid Power I & II	1.Pressure Measurement Apparatus
		2. Reynolds Apparatus Re-circulating
		3. Losses in pipe fitting apparatus
		4. Losses in Pipe friction apparatus.
		5. Verification of Bernoulli's Theorm.
		6. Venturimeter Test Rigs.
		7. Impact of Jet Apparatus.
		8. Meta-centric Height of Ship Mode
		9. Flow Through series & pipes Apparatus.
		10. Trial/study of Pelton turbine Test Rig.
		11. Trial/study of Francis turbine Test Rig.
		12. Trial/study of centrifugal pump Test Rig.
		13. Trial/study of reciprocating pump. Test Rig.
		14. Trial/study of Axial flow pump Test Rig.
		15. Study of multistage pump Test Rig.
		16. Trial/study of Hydraulic Ram Test Rig.
		17. Study of Hydrostatic components systems Test Rig.
		18. Study of governing of Impulse turbine Model

		19. Study of governing of reaction turbines. Model 20. Study of Special pumps - Air lift pump 21. Model Study of Special pumps - /jet pump Test Rig
5	Heat Transfer	1. Thermal Conductivity of metal rod Apparatus. 2. Composite wall apparatus. 3. Setup for Verification of Stefan-Boltzmann's law. 4. Natural Convection Apparatus. 5. Forced Convection Apparatus. 6. Setup for Thermal conductivity of insulting powder. 7. Setup for Thermal conductivity of insulting powder. 8. Determination of fin efficiency Experimental Setup. 9. Experimental Setup to study Pool and Nucleate Boiling
6	Engineering Metallurgy	1. Double Disc Polishing Machine 2. Specimen Belt Grinder 3. Jominy/End Quench Apparatus 4. Binocular Metallurgical Appratus 5. Muffle Furnace 6. Metallurgical Specimen Box Set(Set of 24) 7. Inverted Trinocular Metallurgical Microscope 8. USB CCD Camera for Metallurgy 9. Microcam Software for Study Production Technology List of Major Equipments: - 1. Optical profile projector ALMICRO MAKE M.N.KW-800. – 2. Slip gauge set - Metric 112 pieces workshop grade with T.C 3. Sine center – 300 mm 4. Sine bar – 300 mm 5. Inside micrometer - 25-50mm LC 0.01mm 6. Comparator stand - Small 60x60mm table
7	Non Conventional Energy Sources	1. Solar Power Plant of 50 KW
8	Workshop - Manufacturing process I	1.Real weld Inverter MIG welding Machine 250 AMPS Three Phase with MIG welding torch Model: MIG250F Item Code IMWM-01 2. Spot Welding Machine 3. Gas Welding Machine 4. electric arc Welding Machine 5. Grinding Machine

9	Workshop - Manufacturing process II	1. LIGHT DUTY LATHMACHINE-4.5FT (05 Units). 2.Universal Milling Machine (01 Unit)
10	Mechanics of Material	1. Analogue Universal Testing Machine 2. Conversion of Universal Testing Machine to Computer. 3. Mechanical Extensometer. 4. Compression test attachment with UTM. 5. Shear Test attachment. 6. Dial type Impact Testing Machine. 7. Rockwell & Brinell Hardness Testing Machine,Model -AI - RABI -250kg. 8. Torsion Testing Machine, Machine Model : AI-TTM-10 with Standard Accessories. 9. Modulus of Rupture Test attachment with UTM 10. Deflection of spring testing machine cap - 30kg
11	Basic Electric Drives and Control	1. To study Speed Measurements using Magnetic Pick-up. Experimental setup ARWA MAKE 2. To study the speed -Torque Characteristic of AC Servo Motor. Experimental Setup 3. Four point starter. 4 Point Starter
12	Measurement Systems	1. Displacement Measurement using optical Transducers (LDR) 2. Angular displacement using Rotary Encoder 3. Flow measurement Trainer (Rota meter, Orifice, Optical flow meter) 4. Speed measurement by a stroboscope. 5. Vibration measurement Trainer (Displacement, Velocity, Acceleration

31. Numbers of students receiving financial assistance from College, University, Government or other agencies

Sr. No.	Category	2014 – 15	2015-16	2016-17
1	College (TFWS)	03	03	03
2	Government of Maharashtra	10	99	155
3	Lila Poonawala Foundation	Nil	02	03

32. Details on students enrichment programmes (special lectures / workshops / seminar) with external experts

Sr. No.	Name of the workshop/Training/ Lectures details	Conducted By	Date & Duration	Targeted Students
Academic Year 2016- 17				
1	Ice Breaking Session - Provide Curtain raiser for the activities under Training & Placement in interactive way with Games	Mr. Amol A. Karmarkar, TPO, HVPMCOET, Amravati	One Day - 5 to 7 Hrs. 1) 11th March 2017 (29 Students) 2) 18th March 2017 (35 Students)	First Year Students of all branches branch wise
2	Conduction of Fitment Test based on first Year Mechanical Engg. Syllabus	Test design by Experts of Technotalk, Pune	Test is of 2 Hrs conducted on 13th July 2016 (46 - 2nd Year Students and 49 – 3rd Year Students)	2nd Year & 3rd Year Students of Mech. Engg.
3	Presentation on Fitment Test based on 2nd Year Mechanical Engg. Syllabus	Mr. Sumit Malpani, Founder of Technotalk, Pune and Manager Chassis Design, Tata Motors, Pune	One Day - 5 to 6 Hrs. 16th July 2016 (48 Students)	3rd Year Students of Mech. Engg.
4	Cost Optimization of construction projects for MEP	Mr. Shashank R Chandak, Independent cousultent, Chadek constructions, Amravati	Session of 1 Hr. on 22nd August 2016 (36 students)	2nd Year Students of Mech. Engg.
5	CAD, CAM & CAE	Mr. Shyam Laddha, Promoter, CAD Institute, Amravati	Session of 1 Hr. on 16th February 20172 (50 - 2nd Year Students and 34 - 3rd Year Students)	2nd Year & 3rd Year Students of Mech. Engg.
6	Presentation on Fitment Test based on First Year Mechanical Engg. Syllabus	Mr. Sumit Malpani, Founder of Technotalk, Pune and Manager	One Day - 5 to 6 Hrs. 18th February 2017 (51	2nd Year Students of Mech. Engg.

		Chassis Design, Tata Motors, Pune	Students)	
7	Workshop on "Benchmarking"	Mr. Sumit Malpani, Founder of Technotalk, Pune and Manager Chassis Design, Tata Motors, Pune	One Day - 6 to 7 Hrs. 19th February 2017 (38 - 2nd Year Students and 10 - 3rd Year Students)	2nd & 3rd Year Students of Mech. Engg.
8	CTA - Computer Aided Designing & Drafting – CADD	Mr. Pankaj R. Jaiswal, Asst. Prof., Dept. of Mech. Engg., HVPMCOET, Amravati	Four Days per week 2Hrs. per day From 30th August to 15th September 2016, from 10th January to 24th March 2017 (14 – Students)	3rd Year Students of Mech. Engg.
9	CTA - Automation Engineering	1) Mr. Ashish Bhande, Asst. Prof. Dept. of ENTC, HVPMCOET, Amravati

2) Mr. Ashish Kharate, Asst. Prof. Dept. of ENTC, HVPMCOET, Amravati

3) Mr. Harshad Oak, Asst. Prof. Dept. of ENTC, HVPMCOET, Amravati

4) Mr. Prashant Kakde, Asst. Prof. Dept. of ENTC, HVPMCOET, Amravati

5) Mr. Ajay Khambre, Asst. | Five Days 2 Hrs per day 28th to 30 th September and 6th to 7th October 2016

Six Days 2 Hrs per day 3rd to 7th and 18th October 2016

Two Days 2 Hrs per day 16th to 17th September 2016

Four Days 2 Hrs per day 19th to 22nd September 2016

Two Days 2 Hrs per day | 3rd Year Students of Mech. Engg. |

		Prof. Dept. of ENTC, HVPMCOET, Amravati	26th & 27th September 2016	
		6) Mr. Amol Agarkar, Faculty, Prolific Systems & Technologies Pvt. Ltd., Nagpur	Four Days 5 to 6 Hrs per day 19th to 22nd October 2016	
Academic Year 2015- 16				
1	Ice Breaking Session - Provide Curtain raiser for the activities under Training & Placement in interactive way with Games	Mr. Amol A. Karmarkar, TPO, HVPMCOET, Amravati	One Day - 5 to 7 Hrs. 1) 6th March 2016 (25 Students) 2) 13th March 2016 (35 Students) 3) 20th March 2016 (18 Students)	First Year Students of all branches branch wise
2	Workshop on awareness of various sectors that mechanical Engineer can contribute	1)Mr. Sumit Malpani, Founder of Technotalk, Pune and Manager Chassis Design, Tata Motors, Pune 2) Mr. Swapnil, Associate, Technotalk, Pune	One Day - 3 to 4 Hrs. 5th September 2015 (51 Students)	2nd Year Students of Mech. Engg.
3	Conduction of workshop on Preparing and working on desktop / laptop	Mr. Sameer Joshi, Sr. Technical Asst. Dept. of IT, HVPMCOET, Amravati	Three Days 5 to 6 Hrs. Per Day 23rd, 24th, 30th and 31st July 2016 followed by Exam. (20 Students)	3rd Year Students of Mech. Engg.
4	Workshop on awareness of various sectors that mechanical Engineer can contribute	1)Mr. Makarand, Founder of Technotalk, Pune 2) Mr. Swapnil, Associate, Technotalk, Pune	One Day - 3 to 4 Hrs. 3rd October 2015 (58 Students)	2nd Year Students of Mech. Engg.
5	Entrepreneurship Awareness Camp	Faculties from MITCON	Three Days – 5 to 6 Hrs per	2nd Year Students

		Consultancy & Engineering Services Ltd.	day 19th to 21st January 2016 (30 Students)	of Mech. Engg.
6	Workshop on Geometric Dimensioning and Tolerancing	Mr. Sumit Malpani, Founder of Technotalk, Pune and Manager Chassis Design, Tata Motors, Pune	Two Days - 5 to 6 Hrs per day on 6th and 7th February 2016 (59 Students)	2nd Year Students of Mech. Engg.
7	Conduction of Fitment Test based on 2nd Year Mechanical Engg. Syllabus	Test design by Experts of Technotalk, Pune	Test is of 2 Hrs conducted on 12th April 2016 (73 Students)	2nd Year Students of Mech. Engg.
8	Conduction of workshop on Preparing and working on desktop / laptop	Mr. Sameer Joshi, Sr. Technical Asst. Dept. of IT, HVPMCOET, Amravati	Four Days 5 to 6 Hrs. Per Day 19th, 25th July & 1st, 8th August 2015 followed by Exam. (17 Students)	2nd Year Students of Mech. Engg.
Academic Year 2014- 15				
1	Ice Breaking Session - Provide Curtain raiser for the activities under Training & Placement in interactive way with Games	Mr. Amol A. Karmarkar, TPO, HVPMCOET, Amravati	One Day - 3 to 4 Hrs. 1) 15th March 2015 (14 Students) 2) 23rd March 2015 (67 Students)	First Year Students of all branches branch wise

33. Teaching methods adopted to improve students' learning:

1. Lecture based Power Point presentations.

2. Concept based videos of NPTEL /You Tube downloads / self prepared (Digital School)

3. Power Plant Engg. Android Base Application

4. Teaching –Learning Techniques: - Lecture, Chalk & Talk, Role plays, Group discussion, Quiz, Brainstorming sessions, Puzzles, games, crosswords, etc.

5. Outcome based Assessments (Unit Test, Improvement Test, Common Test, Remedial Test, Open book Test) – Mode of Tests - online / Written (Multiple choice / Descriptive)

6. Assignments (Unit based)

7. Industrial Visit

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

Sr. No.	Nature of Services
1	Blood donation Camp
2	Participation in NSS Camp
3	Tree Plantation
4	Social awareness rallies
5	Help to orphanage & Old age home
6	Cyber Security awareness programmes in Schools/Jr. College
7	Awareness programme about opportunities in technical education
8	Awareness about programmes of Demonetization, use of cashless systems, Swacch Bharat Abhiyan
9	Womens empowerment programme, Sensitization

35. SWOC analysis of the department and Future plans

Strengths:

1. Qualified & experienced faculties with Young, Energetic nature.

2. Learning oriented faculties adopting innovative teaching – learning methodologies

3. Fully equipped laboratories and workshops with scope of conducting practical more than list of practical prescribed in affiliated university curriculum

4. Adequate infrastructure having pleasant ambiance with scope of expansion

5. Implementation of KYSS – Know your Student & Know your Subject for effective learning of students

6. Remedial measures for academically weaker students

7. Faculties and Parents Handhold efforts for overall development of students

8. Weekly and monthly academic review report generation for tracking academic progress.

9. Students' Feedback system for understanding students Queries / Issues related to academic, co-curricular, extracurricular other students relevant activities

Weaknesses:

1. Entry level students are lacking with pre-requisite knowledge
2. Students with poor communication skills

Opportunities:

1. New department in the college and region hence having scope for setting quality standards for academic executions
2. City is having industrial area with small & medium Mechanical Engineering Related enterprise
3. Trend of Engineering aspirants is towards Mechanical Engineering.
4. Good Industry Institute Interaction of faculties of department to fetch renowned dignitaries from industry from enhancing technical skills of students and placements as well.

Challenges:

1. Heterogeneity in learning ability of students
2. Heterogeneity in socio economic background of students
3. Reducing Trend towards opting for engineering as a profession

Future Plans:

1. Establish infrastructure more than statutory/regularitory mandatory requirement
2. Excellent University results
3. Organization and participation of Students in National and International level technical competitions like Nkart, BAHA, Etc.
4. Participation of faculties in research and development activities focused under thrust area of college
5. Organization of faculty development programs of interdisciplinary nature.
6. Achieve center for excellence in Designing & Product Development by setting of Rapid Prototyping Laboratory with Reverse Engineering Equipments.
7. To seek financial support from funding agencies.
8. To enhance industry department interaction.

Evaluative Report of the Department

1. **Name of the Department   :   First Year Engineering**

   (Applied Science, humanities and

   Allied Engineering)

2. **Year of Establishment   :   2002**

3. **Name of Programmes/Courses offered :** Bachelor of Engineering

4. **Name of Interdisciplinary courses and the departments/ units / subjects involved :**

Sr. No.	Department	Year	Semester	Course
1.	Computer Science & Engg.	FIRST	I & II Group B	Computer Programming
2	Mechanical Engg.		I & II Group A	Engineering Mechanics
				Workshop II
3				Workshop I
4			I & II Group B	Workshop II

5. **Annual /semester choice based credit system (Programme wise) :**

Sr. No.	Engineering / Technology		Annual / Semester Credit System
1	UG	First Year Engineering	Semester/Credit System

6. **Participation of the department in the courses offered by other department**

Sr. No.	Subjects	Semester / Course	Department
01	Engineering Mathematics –III	III	Computer Science & Engg.
02	Engineering Mathematics –III	III	Electronics & Technology
03	Engineering Mathematics –III	III	Information Technology
04	Engineering Mathematics –III	III	Mechanical Engineering
05	Environmental Studies	III	Computer Science & Engg.
06	Environmental Studies	III	Electronics & Technology
07	Environmental Studies	III	Information Technology
08	Environmental Studies	III	Mechanical Engineering
09	Basic Electrical Drives & Control	IV	Mechanical Engineering

7. **Courses in collaboration with other universities, industries, foreign institutions, etc. :** Nil

8. **Detail of courses/ programmes discontinued (if any) with reasons :** Nil

9. **Number of Teaching posts :**

Cadre wise Teaching Faculty	2016- 2017	
	Sanctioned	Filled
Professor	01	01
Associate Professor	02	02
Assistant Professor	06	06
Asst. Workshop Superintendent	01	01
Librarian	01	01
Director of Physical Education	01	01
Adjunct Faculty	03	03

10. Faculty profile with name, qualification, designation, specialization:

Name	Qualification	Designation	Specialization	No. of Years of Experience			No. of Ph.D. Students guided for the last 4 years
				Industry/ Research	Teaching	Total	
Dr. M. E. Shelke	M.Sc. Ph. D.	Professor	Organic Chemistry	---	19	19	Nil
Mr. S. V. Khond	M.E., M.B.A. Ph. D (Pursuing)	Asso. Professor	Electrical power System	08	14	22	Nil
Dr. P. K. Sontakke	M.Sc. M.Phil, Ph. D	Asso. Professor	Integration Transform	---	16	16	Nil

	Mr. Y. V. Padole	M.E. Pursuing	Asst. W/s Supt.	Production Engg. Plastic TKM	02	23	25	Nil
	Mr. S. U. Bande	M.E. Pursuing	Asst. Professor	Prod. Tech. &Mgt.	---	18	18	Nil
	Dr. A. S. Shrirao	M.Sc. Ph. D	Asst. Professor	Organic Chemistry	---	10	10	Nil
	Dr. M.B. Anasane	M.Lib. MPhil, Ph.D.	Librarian	Library Science	---	14	14	Nil
	Mr. S. P. Vaidya	M. PEd.	Dir. Of Physical Edu	Physical Education	---	17	17	Nil
	Dr. V. M. Umarkar	M.Sc. M.Phil ,Ph. D	Asst. Professor	Mathematics	---	14	14	Nil
	Dr. V. P. Chaudhari	M.Sc. Ph. D.	Asst. Professor	Physics	---	08	08	Nil
11	Ms.Ankita M. Nahe	M. Sc.	Asst. Professor	Physics	---	---	---	Nil
12	Dr. Ashok Saraf	M.E.	Adjunct Faculty	Electronics Engg.	38	01	39	Nil
13	Mr. Deepak Pohekar	B.Sc.	Adjunct Faculty	Computer	18	01	19	Nil
14	Mr. Mohan S. Totade	M. E.	Adjunct Faculty	Electrical & Power Systems	35	06	41	Nil

| 15 | Mr. A. A. Pendhari | M. E. | Visiting Faculty | Civil | --- | --- | --- | Nil |

11. List of senior visiting faculty: Nil

12. Percentage of lectures delivered and practical classes handled by temporary faculty: 15%

13. Student – Teacher Ratio: For First year Engineering

Sr. No.	Academic Year	Admitted number of Students	Faculty Strength	Student – Teacher Ratio
01	2016-2017	117	15	**8:1**
02	2015-16	148	15	10:1
03	2014-15	97	15	7:1
04	2013-14	143	15	10:1
05	2012-13	175	12	15:1

14. Number of academic support staff (technical) and administrative staff:

Description	2015-2016	
	S	**F**
Technical support Staff	**09**	**09**
Administrative Staff	**-----**	**-----**

S- Sanctioned   **F- Filled**

15. Qualification of teaching faculty with DSc/ D.Litt /Ph. D / MPhil / PG:

Qualification	Total
DSc	----
D.Lit	----
Ph.D.	06
Ph. D. pursuing	01
P.G. (M.E./M.Tech.)	05
P. G. Pursuing	02
U.G. (B. E.)	01(Adjunct faculty)

16. Number of faculty with ongoing projects from National / International funding agencies and grants received: Nil

17. Departmental project funded by DST-FIST, UGC, DBT, ICSSR, etc. and total grants received: Nil

18. Research Centre. Facilities recognized by the University:

Applied Chemistry/Chemical Technology

19. Publication: Faculty

Paper Publication (In last four years)

Sr. No.	Name of the Faculty	Publications				Total
		National Journal	International Journal	National Conference	International Conference	
01	Dr. M. E. Shelke	----	11	---	---	11
02	Mr. S. V. Khond	---	---	02	01	03
03	Dr. P. K. Sontakke	---	05	01	01	07
04	Mr. S. U. Bande	---	01	---	02	03
05	Dr. A. S. Shrirao	07	---	02	---	09
06	Dr. V. M. Umarkar	---	03	02	03	08
07	Dr. V. P. Chaudhari	----	02	01	01	04
	Total	07	22	08	08	45

Books with ISBN. ISSN numbers with details of Publisher: (In last four years)

Sr. No.	Name of the faculty	Title	ISBN Number	Month and Year	Publisher
01	Dr. M. E. Shelke	Engineering Chemistry	ISBN No. 978-93-81660-54-6	March – 2013	DasganuPrakashan, Nagpur
02	Dr. M. E. Shelke	Text book of Chemistry, B.Sc. II Year Sem. III,	ISBN No 978-81-905776-101-6	July – 2015	NabhaPrakashan Amravati

20. Areas of consultancy and income generated:
1. Green Campus
2. Solar Power Plant
3. Electrical Consumption Monitoring
4. Fabrication in Work shop

21. Faculty as members in national committee, International committee and Editorial board:

Sr. No.	Name of the faculty	National Committee

| 01 | Dr. M. E. Shelke | 1.Curriculam Expert, State Council of Education, Research & Training, MS Pune. |

Faculty as members in Editorial Board

Sr. No	Name of Faculty	Details
01	Dr. M. E. Shelke	1. International Journal of Chemical and Physical Sciences **ISSN: 2319-6602 (Online)** 2. Research Journal of Chemical Sciences **ISSN: 2231-606X(Online)** 3. American Journal of Pharmacology and Pharmacotherapeutics **ISSN: 2393-8862**

22. Student Projects: NIL

23. Awards/Recognitions received by faculty and students:

a) Faculty Awards/Recognitions :

Sr. No	Name of Faculty	Details
2016-17	Dr. M. E. Shelke	ISTE, Best Engineering College Teacher for Maharashtra & Goa
2014-15	Prof. S. V. Khond	Eminent Engineer Award by I. E. I., Kolcutta (Amravati local centre)

b) Student Award :

Year	Name of student	Event	Level	Rank
2015-16	Mr. Mrunesh Ganorkar	Essay Competition	State level	01

24. List of eminent academicians and scientists / visitors to the department:

Name of academician	Designation	Year of Visit
Dr. Atul Vaidya	Scientist, Solid Waste Division, NEERI, Nagpur	2013-2014
Dr.M.P.Patil	Scientist, Solid Waste Division, NEERI, Nagpur	2013-2014
Dr.N.W.Ingole	Prof & Head Mech. Engg Prof. Ram Meghe Institute of Technology & Research, Badnera.	2013-2014
Dr.R.S.Sapkal	Prof & Head, Chemical Tech.UDCT, SGB Amravati University Amravati	2013-2014
Dr.A.K.Diggalwar	Professor, Mechanical Engg. Dept.	2013-2014

	BITS Pilani				
Dr.N.W.Kale	Professor, Mechanical Engg. Dept. Prof. Ram Meghe Institute of Technology & Research, Badnera.			2013-2014	
Dr. K. Manivannan	Professor, Mechanical Engg. Dept. Dept. of Information Technology, R.M.K., Engineering College Kavaraipettai , Tiruvallur			2015-16	
Prof. Vijay Dattatraya Vaidya	Secretery, Maharashtra State Board of Technical Education, Govt. Polytechnic Mumbai Bldg., Kherwadi, Bandra (E), Mumbai			2015-16	
Dr. (Prof.) S. V. Vaishnav	Professor, Mechanical Engg. Dept. Structural Engineering (Retd. 01-11-1997) Birla Engineering College, Vallabh Vidyanagar – 388 120, Gujarat, India			2015-16	
Prof. Pratapsinh Kakaso Desai	President, ISTE, New Delhi			2015-16	

25. Seminars / Conference / Workshops organized & the source of funding

Year	Seminars Conferences/ Workshops	N/I	Title	Date	Funding Agencies
2015-16	Conference	International	"Challenges & Opportunities in Technical Education in the era of Sustainable Development"	9-11 Jan,2016	ISTE, New Delhi
2013-14	Workshop	National	'Understanding Teaching – Learning Methodologies for Engineering Education'	10 June 2013	ISTE, New Delhi
	Conference	National	GREEN TECHNOLOGY On Scientific & Engg. Solutions to Environmental Issues.	02.10.2013	Self-financed
	Workshop	National	Challenges in Environment Protection & Green Technology	21 to 25.04.2014	Punjab Technical University, Jalandhar

26. Student profile programme / Course wise:

Name of the Course / Programme	Academic Year	Applications received	Admitted	Enrollment		Pass Percentage
				M	**F**	
B.E. First Year Engg.	2015-16	1. Admission process is centralized & carried out by admission regularity authority/DTE/State Govt. 2.Admissions are invited, received by centralized admission process 3.Selected students directly report to college	148	92	56	35%
	2014-15		97	47	50	28.58%
	2013-14		143	43	100	41.61%
	2012-13		175	67	108	45.69%

27. Diversity of Students:

Name of the course	Academic Year	% of Maharashtra State Students	% of other State Students	% of Students from Abroad
B.E. First Year Engg.	2015-16	99.33	0.67 %	----
	2014-15	100	00 %	----
	2013-14	99.31	0.69 %	----
	2012-13	100	00 %	----

28. How many students have cleared national and State competitive examinations such as NET, SET, GATE, Civil Services, Defence Services, etc? : Not applicable

29. Student Progression: Not applicable

30. Details of Infrastructural facilities:

   g) **Library**

Sr. No.	Description	Quantity in Numbers	
1	Books for students circulation	Titles	645
		Volumes	3664

2	Department Library for Reference	Titles	78
		Volumes	----
3	Technical Journals	National	06
		International	Desirable
		e-journals	04Packages
4.	Technical Magazines Subscribed		02
5.	News Papers		17
6.	Educational CDs (CBTs)		179

h) Internet facilities for Staff & Students

Sr. No.	Description	Quantity in Numbers
1	Computers	05
2	Computer with Internet Facilities	05
3	Bandwidth	50 mbps
4	Network Facilities for all Computers	All
5	Printers	03
6	Scanner	01
7	LCD Projector	01
8	External DVD	01

i) Class rooms with ICT facility

Sr. No.	Description	Numbers of Rooms
1	Class room with Projectors	02
2	Class room with Internet facilities	01
3	Class room with ICT Facilities	02

j) Laboratories for UG

Sr. No.	Name of Laboratory for UG course	Room Code No.	Carpet Area in Sqm	Facility Available
1	Engineering Physics	CG-07, CG-08	102.83	Spectrometer, C.R.O., 20MHz dual trace Oscilloscope with built in function Generator
2	Engineering Chemistry	CG-06	66	PH-Meter, Equiptronics, Redwood Viscometer, Muffle

				Furnace, Hot air oven , Controlled by Thermostat
3	Engineering Mechanics	SH-01	66.4	Double purchase crab, Simple Jib crane,Compound Pendulum
4	Engineering Drawing Hall	CT-01	133.07	--
5	Applied Chemistry/ Chemical Technology Research Lab	CF-06	66.23	Auto Clave watt 2000,Leminar Flow Clean air work station, Blower
6	Material Technology-I	CF-07	67.2	
7	Instrumentation	CG-05	66.2	
8	Workshop	WS-01	200.67	Bench Vice , Wooden Lathe M/c with 1H.p. Electric machine, Pipe Cutting M.c
9	Electrical Engg. Lab	CG-04	66.2	Trainer on Kirchoffs Low, Transformer, Close type 10A,single phase Dimmer stal
10	Material Technology-II	SH-02	66.12	

31.   Numbers of students receiving financial assistance from college, university, government or other agencies

Sr. No.	Category	2016-17	2015-16	2014-15	2013-14	2012-13
1	VNJI	----	11	01	05	13
2	OBC	----	63	29	56	30
3	SC/ST	12	16	04	13	21
4	SBC	01	01	02	00	02
5	EBC	14	10	10	11	09
6	STC	----	00	01	----	---
7	PTC	----	00	-----	----	---
8	Minority Scholarship	03	04	07	01	03

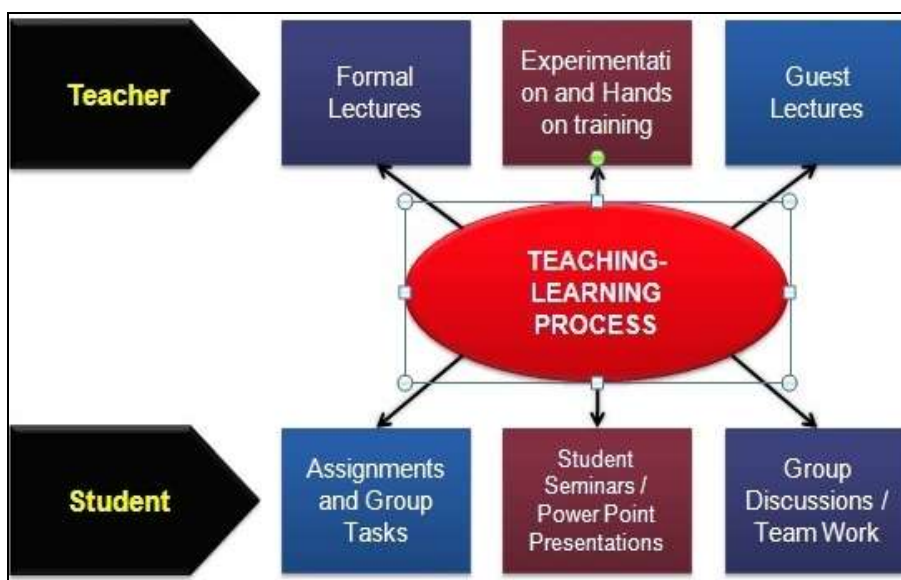**32.** **Details on students enrichment programmes (special lectures / workshops / seminar) with external experts**

Academic Year	Special Lectures / Workshops/ Seminars	Title	Date	External Experts
2016-17	Workshops	Cyber security	15.10.2016	Mr. Ajinkya Mahajan
	Ice Breaking	Activities under Training & Placement in interactive way with Games		Prof. A. A. Karmarkar
	Induction programme		22.08.2016	Dr. A.B.Marathe Prof. S.V.Khond
2015-16	Ice Breaking	Activities under Training & Placement in interactive way with Games	06.03.2016 13.03.2016 20.03.2016	Prof. A. A. Karmarkar
2014-15	Special Lectures	How to study	20.12.2015	Shantanoo Mansukhani
	Ice Breaking	Activities under Training & Placement in interactive way with Games	15.03.2015 23.03.2015	Prof. A. A. Karmarkar
	Induction programme		25.07.2015	Dr. A.B.Marathe Dr.B.N.Jajoo
2013-14	Ice Breaking	Activities under Training & Placement in interactive way with Games	05.04.2014	Prof. A. A. Karmarkar
2012-13	Ice Breaking	Activities under Training & Placement in interactive way with Games	19.03.2013	Prof. A. A. Karmarkar

33. Teaching methods adopted to improve student learning:

At Department various activities are conducted for improving student learning. These activities are conducted along with academics. The activities are as follows:

- PPT
- Videos

- Class Test
- Re-Test

➢ Digital School	➢ Common Test
➢ Group Discussion	➢ Improvement Test
➢ Brain Storming	➢ Remedial Classes
➢ Role Play	➢ Assignments
➢ Quiz	➢ Site visits
➢ Techno-Aptitude	➢ Industrial Visits
➢ Hackathon	➢ Flipped Learning

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

Our Department along with institution always tried for the holistic development of the students and encourages them for participation in the various social activities. At department following activities are performed:

➢ Cyber security awareness programs.
➢ NSS (National Services Scheme).
➢ Celebration of Digital India Week (1st to 7th July 2015).
➢ Tree plantation.
➢ Visit to orphanage/ Old Age Home.
➢ Green conference.
➢ Independence & Republic day celebration
➢ 25th of every month is celebrated as environment day or no vehicle day.
➢ Social Gathering (Tarang).
➢ Industrial Visit.
➢ Blood donation camp.
➢ Blank page bank
➢ Making the college playground available to neighboring industries and

communities on weekends.

➢ Sharing computer Lab for the 11th and 12th students from neighboring college.
➢ Yoga Day on 21st June.
➢ Green day celebration.
➢ Workshop on Women sexual harassment at work place

35. SWOC analysis of the department and Future plans
Strengths:
1. Qualified, experienced and dedicated faculty.
2. 06 Faculty completed Ph.D. and 01 pursuing out of 15 faculty members
3. Well equipped laboratories & adequate infrastructure
4. Systematic monitoring of teaching –learning process
5. Representation of faculty in University Governance
6. Teaching Guardian scheme
7. Remedial lectures for academically weaker students to achieve good university result

Weaknesses : 1. Lower enrollment ratio
　　　　　　　2. Lower merit students at entry level
　　　　　　　3. Student with lower communication skill, Softs skill.

Opportunities : 1. To enhance industry – Institute- department interaction
　　　　　　　　2. To attract better quality students

Challenges : 1. To improve university results from academically weaker student having lower merit number
　　　　　　　2. Declining admission trends towards engineering education
　　　　　　　3. Competition from other Engineering colleges
Future Plans : 1.To start recognize physics & Mathematics research centre
　　　　　　　2. To motivate faculties for research activity
　　　　　　　3. Effective use of ICT for teaching-learning process
　　　　　　　4. To acquaint students with the concept of Virtual labs.
　　　　　　　5. Motivate students to improve skills
　　　　　　　6. To organize FDP on education technology

Evaluative Report of the Department

1. **Name of the Department:** M.B.A.

2. **Year of Establishment** : 2010-11

4. **Name of Programmes/Courses offered : Master of Business Administration**

5. **Name of Interdisciplinary courses and the departments/ units / subjects involved :-** NIL

6. **Annual /semester choice based credit system (Programme wise) :**

Sr. No.	Engineering / Technology/Management	Annual / Semester Credit System
	PG	Semester/Credit System

7. **Participation of the department in the courses offered by other department**

Sr. No.	Subjects	Semester / Course	Department
01	Communication Skill	VI	Mechanical Engg.

8. **Courses in collaboration with other universities, industries, foreign institutions, etc. :** NIL

9. **Detail of courses/ programmes discontinued (if any) with reasons :** NIL

10. **Number of Teaching posts :**

Cadre wise Teaching Faculty	2015- 2016	
	Sanctioned	Filled
Professor	02	Nil
Associate Professor	01	Nil
Assistant Professor	05	09

11. **Faculty profile with name, qualification, designation, specialization:**

Name	Qualification	Designation	Specialization	No. of Years of Experience			No. of Ph.D. Students guided for the last 4 years
				Industry/ Research	Teaching	Total	

	Mr. Anand Shah	M.Com., M.B.A.	Asst. Professor	Financial Management	02 Year	07	9 Yr.	
	Mr. Sarvesh Rathi	PGDM, M.J.M.C., B.Pharma	Asst. Professor	Marketing,	03Year	06	9Yr.	
	Mr. Ravi Sahu	B.Com M.M.S.	Asst. Professor	Marketing, Sport Mgt.	02 Year	10	12Yr.	
	Ms. Mukta Mantri	B. E., M.B.A.	Asst. Professor	Marketing, Finance	02 Year	07	9Yr.	
	Mr. Kapil Kapdiya	M. Com., M.B.A., D.Tax., PGDIBO	Asst. Professor	Financial Management	---	07	7 Yr.	
	Mr. Vasant Chandane	B.Tech. MIRPM	Asst. Professor	H.R.	09 Month	1.5	2.2Yr.	
	Mr. Amol Agrawal	M.B.A.	Asst. Professor	Finance, H.R.	09 Month	1.5	2.2 Yr.	
	Mrs. Varadlaxmi Heda	M.Sc. M.B.A.	Asst. Professor	H. R.	06 Month	05Yrs.	5.5 Yr.	
	Mr. Sanjay . M. Taral	B.Sc, Comp	Adjunct Faculty		18 years	1 years	19 years	

11. List of senior visiting faculty: Nil

12. Percentage of lectures delivered and practical classes handled by temporary faculty: Nil

1. Student – Teacher Ratio: For First year MBA (2016-2017)

Sr. No.	Admitted Students	Faculty Strength	Student – Teacher Ratio
1	85	09	10:1

14. Number of academic support staff (technical) and administrative staff:

Description	2015-2016	
	S	F
Technical support Staff	01	01
Administrative Staff	01	01

S- Sanctioned   **F- Filled**

15. Qualification of teaching faculty with DSc/ D.Litt /Ph. D / MPhil / PG:

Qualification	Total
Ph. D	Nil
PG	08

16. Number of faculty with ongoing projects from National / International Funding agencies and grants received:
01 (Mr. Ravi Sahu – The Association For International Sports for All (TAFISA)Germany , National Institute of Sports Science (NISS) Srilanka)

17. Departmental project funded by DST-FIST, UGC, DBT, ICSSR, etc. and total grants received: Nil

18. Research Centre. Facilities recognized by the University: Nil

19. Publication: Faculty

Paper Publication (In last four years)

Sr. No.	Name of the Faculty	Publications				Total
		National Journal	International Journal	National Conference	International Conference	

01	Mr. Anand Shah	-	-	3	1	4
02	Mr. Sarvesh Rathi	-	-	04	01	05
03	Mr. Ravi Sahu	-	-	02	03	05
04	Ms. Mukta Mantri	01	02	-	01	04
05	Mr. Kapil Kapadiya	-	-	03	01	04
06	Mr. Amol Agrawal	-	-	03	02	05
Total		**1**	**2**	**15**	**11**	**27**

20. **Areas of consultancy and income generated:** Nil

21. **Faculty as members in National committee, International committee and Editorial board**: Nil

22. **Student Projects**
     a. **Percentage of students who have done in-house projects including inter departmental /programme:-** 100%

     b. **Percentage of students placed for projects in organizations outside the institutions i.e in research lab/ industry/other agencies**

.

Years	(b)
2015-16	18
2014-15	22
2013-14	24
2012-13	32

23. **Awards/Recognitions received by faculty and students:**
     A) **Faculty Award/Recognitions**

Sr. No	Name of Faculty	Details
01	Mr. Amol Agrawal	Best Research Paper award at SIES, Mumbai
02	Mr. Sarvesh S. Rathi	Best Research Paper award at SIES, Mumbai

B) **Students Award**

Year	Name of student	Award	Rank
	Mr. Vyankatesh Chawre	Quiz	1st (G.H. Raisoni, Amravati)
	Mr. Vaibhav	Quiz	1st

2015-16	Hardikar		(G.H. Raisoni, Amravati)
	Neharika Sharma	SGBAU MBA Summer 2016 Exam	6th Merit(Amravati)
	Monika Jaiswal	SGBAU MBA Summer 2016 Exam	3rd Merit(Amravati)
2014-15	Ms. Neharika Sharma	Paper presentation	1st (Sipna, Amravati)
	Neharika Tiwari, Akhil Goyanka, Ankush Khanve	Paper presentation	2nd (Amravati)
2013-14	Monali Wakode	SGBAU MBA Summer 2014 Exam	10th Merit
2012-13	Mohini Kale	SGBAU MBA Summer 2013 Exam	8th Merit
	Mr. Amol Agrawal	ADMAD Show	1st (Wardha)

Achievment of the Students at International level

Year	Name of student	Event	Level	Rank	Level
2015-16	Nikhilesh Kherde	Participation in Intership Programme at Hamburg, Germany	International	-	-
	Mayuresh Deshpande				

24. List of eminent academicians and scientists / visitors to the department:

a) Eminent Scientist

Sr.No	Name of Person	Designation
1	Mr.Lars Hezelton.	Senior Project Leader Gerlev Sports Academy, Denmark
2	Mr. Rolf Dungefeld	MD, German Tours & Conference, Hamburg Germany
3	Mr.Nitin Ghatapande	Ex.Bramha Prakash Scientist ISRO Banglore
4	Mr.C.Kajwadkar	Sr. VP and Head IT Clearing Corporation of India

b) Eminent Academicians

Sr.No.	Name of the person	Purpose of Visit
1	Rukmal Wijeratne (Shri-Lanka)	Guest Lecture on Sports Management
2	Romi Bhinder	Guest Lecture on IPL
3	Mr. Atul Mohod	Pepsi CEO, Ghana
4	Mr. Anil Karwa	Guest Lecture on Enterpreneurship Development
5	Mr Saurabh Khati	Guest Lecture on Career in Finance
6	Mr Vishal Mantri	Guest Lecture on Mergers & Acquisition
7	Shivani Dani	Guest Lecture on Share Market
8	Mr Rishi Chourasi	Guest Lecture on Career in Banking

25. Seminars / Conference / Workshops organized & the source of funding:

a) National

Sr. No	Date	Title	STTP/Training/Workshop/Conference	Duration	Funding Agencies	Venue
1.	9,10,11 January 2016	ISTE National Convention	45th National Convention ISTE.	(Three Days)	ISTE, New Delhi	HVPM's COET Amravati
2.	2 October 2013	Conference on Green Technology	Conference on "Green Technology" Theme: Scientific & Engineering. Solutions to Environmental Issues in association with Institute of Engineers, Amravati, Satpura Foundation, Kirloskar Vasundara, Nature conservation Club, Indian Water Works Association.	One Day	Self Funding	H.V.P.M. COET

b) **International**

Academic Year 2015-16						
Sr. No.	Date	Title	STTP/Training/ Workshop/ Conference	Duration	Funding Agencies	Venue
1.	9,10,11 January 2016	International Conference	International Conference on Challenges & Opportunities in Technical Educations in the Era of Sustainable Development	3 Days	ISTE, New Delhi	H.V.P.M. COET

26. Student profile programme / Course wise:

Name of the Course / Programme	Academic Year	Applications received	Admitted	Enrollment		Pass Perce ntage
				M	F	
Master of Business Administration	2015-16	1.Admission process is centralized & carried out by admission regularity authority/DTE/State Govt. 2.Admissions are invited, received by centralized admission process 3.Selected students directly report to college	50	26	24	21.43
	2014-15		60	30	30	21.82
	2013-14		60	32	28	18.52
	2012-13		60	26	34	45 .00

27. Diversity of Students:

Name of the course	Academic Year	Year	% of Maharashtra State Students	% of other State Students	% of Students from Abroad
MBA	2015-16	2015-16	98	02	Nil
MBA	2014-15	2014-15	97	03	Nil
MBA	2013-14	2013-14	100	Nil	Nil
MBA	2012-13	2012-13	100	Nil	Nil

28. How many students have cleared national and State competitive Examinations such as NET, SET, GATE, Civil Services, Defense Services, etc? : - NIL

29. Student Progression:

Student Progression	Against % Enrolled
UG to PG	N.A
PG to M.phil	Nil
PG to Ph.D.	Nil
Ph.D. to Post-Doctoral	Nil
Employed - Campus Selection - Other than Campus Recruitment	62 22
Entrepreneurship/ Self-employment	43

30. Details of Infrastructural facilities:
Library

Sr. No.	Description	Quantity in Numbers	
1	Books for students circulation	Titles	771
		Volumes	3579
2	Technical Journals	National	12
		International	Desirable
		e-journals	04 Packages
3.	Technical Magazines Subscribed		02
4.	News Papers		17
5.	Educational CDs (CBTs)		179

k) Internet facilities for Staff & Students

Sr. No.	Description	Quantity in Numbers
1	Computers	07

2	Computer with Internet Facilities	07
3	Bandwidth	10 Mbps
4	Network Facilities for all Computers	07
5	Printers	01
6	Scanner	01
7	LCD Projector	02

l) Class rooms with ICT facility

Sr. No.	Description	Numbers of Rooms
1.	Class room with Projectors	01
2.	Class room with Internet facilities	01
3	Class room with ICT Facilities	01

m) Laboratories for PG

Sr. No.	Name of Laboratory for PG course	Carpet Area in
1	Computer Centre	152 Sqm

31. Numbers of students receiving financial assistance from college, university, Government or other agencies

Sr. No.	Category	2016-17	2015-16	2014-15	2013-14	2012-13
1	VNJI	5	05	00	01	01
2	OBC	35	18	29	24	27
3	SC/ST	14	08	04	12	13
4	SBC	00	00	00	02	01
5	EBC	18	09	09	09	08
6	Minority Scholarship	01	01	01	04	01

32. Details on students enrichment programmes (special lectures / workshops seminar) with external experts

Academic Year	Special Lectures / Workshops/ Seminars	Title	Date	External Experts
2016-17	Special Lecture	Sports Management	16/10/2016	Rukmal Wijeratne (Shri-Lanka)
	Workshop	Career in Sports management	04/02/2017	Romi Bhinder
	Workshop	Sales & Marketing in Beverage industry –A global outlook	06/01/2017	Mr. Atul Mohod (Pepsi CEO, Ghana)
2015-16	Workshop	Entrepreneurship Awareness Camp (EAC)	19/01/2016 To	Mr. Anil Karwa

			21/01/2016	
	Workshop	Career in Finance by Mr khati	22/02/2016	Mr Saurabh Khati
	Workshop	Mergers & Acquisition	25/3/2016	Mr Vishal Mantri
2014-15	Special Lecture	Expert Business talk on Current industry outlook-C.Kajwadkar	23/01/15	C.Kajwadkar
	Workshop	Workshop on MS-Office 2010	16/03/2015	Mr . Sameer Joshi
2013-14	Workshop	Workshop on MSword/Exel/Powerpoint	16/02/2014	Mr . Sameer Joshi
	Workshop	Workshop on career in banking	16/03/2014	Shivani Dani
	Workshop	Banking as a career by Mr Rishi Chourasia (Director & Founder of Management Vikalp	27/9/2014	Mr Rishi Chourasia (Director & Founder of Management Vikalp
2012-13	Special lecture	Career in Insurance	03/08/2012	Mr Ashok Joshi
	Workshop	Investor awareness programme by ICICI bank	04/03/2012	Mr Lakhotiya

33. Teaching methods adopted to improve students learning:

1.   Power Point presentation
2.   Video on Youtube and Movies on Management related
3.   The outcome based teaching-learning method is adopted for improving students learning.
4.   Continuous evaluation system – Unit Test , Student Presentation
5.   Group discussion
6.   Brain Storming Session
7.   Debate on Current Affairs
8.   Case Studies related to management
9.   Role – Plays
10.   Interview Techniques
11.   Management Games
12.   Business Newspaper and Magzines reading Session
13.   Quiz on Business and Management
14.   Poster Presentation on Various Busines Topics

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

Sr. No.	Nature of Services
1.	Blood donation Camp
2.	Red Ribbon Club
3.	Tree Plantation
4.	Social awareness rallies
5.	Celebration of Digital India Week (1st to 7th July 2015)
6.	Visit to orphanage/ Old Age Home
7.	Green conference
8.	Independence & Republic day celebration
9.	25th of every month is celebrated as environment day or no vehicle day
10.	Social Gathering (Tarang)
11.	Industrial Visit
12.	Blank page bank
13.	Making the college playground available to neighboring industries and communities on weekends
14.	Yoga Day on 21st June
15.	Green day celebration
16.	Workshop on Women sexual harassment at work place
17.	Program on Swacch Bharat Abhiyan
18.	Womens empowerment programme, Sensitization
19.	Workshop on "Manashanti" Lonavala and "Heartfullness" for stress management

35. SWOC analysis of the department and Future plans
Strengths:
- Introduced 3 new Specialisation for the first time ever in SGBAU Amravati University Such as Pharmaceutical Management, Sports Management, Healthcare Management.
- Qualified, experienced and dedicated faculty.
- Adequate Infrastructure
- Systematic Monitoring of Teaching Learning process
- International Exposure of Faculties
- Feedback system for student and faculty.
- Remedial lectures for academically weaker students.
- Friendly and Team working culture in Department under warmhearted guidance of HOD.
- The departmental academic, co-curricular and extra-curricular programs are carried out with good results and enthusiastically due to overwhelming participation of student and team working nature of faculty in department.
- Lectures from Industry persons & eminent academicians.
- Systematic monitoring of teching-learning process.
- Effective Guardian scheme

- Implementation of KYSS – Know your Student & Know your Subject for effective learning of students.

Weaknesses:
- Lower merit students at entry level
- Student with lower communication skill, Soft skills.
- Some syllabus carries improper sequence of topics which affects on students understanding.
- The graduated students experience the gap between studied syllabus and its implementation in industries.

Opportunities:
- To enhance industry – Institute- department interaction.
- To attract better quality students.
- To introduce new Specializations.
- Starting need based certification courses.
- Enter into collaborative project with industry and other institute for better exposure.
- Encouraging students for Government /public sector examination.
- Prospect for academic autonomy.
- To start the Skil Development Program in collaboration with State/Central Governments

Challenges:
- To improve university results from academically weaker student having lower merit number.
- Less Industry exposure to students.

Future Plans

- Motivate students to improve skills.
- To enhance Entreprunership skills of students.
- To start the Executive MBA
- To provide the platform for National and International Internship to students
- National and International Visit for International Exposure to students.
- To fetch the Grants from AICTE and UGC for Faculty Development Programme
- Effective use of ICT for teaching-learning process.
- To provide more Industry-Institute relationship to take up real time needs of the industry as students/faculty projects.
- Conduct various activities to enhance the entrepreneurial skills to the students.

HANUMAN VYAYAM PRASARAK MANDAL'S

COLLEGE OF ENGINEERING & TECHNOLOGY, AMRAVATI

■ Approved by AICTE & Govt. of Maharashtra ■ Affiliated to S.G.B. Amravati University, Amravati.
■ U.G. Courses Accreditated by National Board of Accreditation [Computer Science & Engineering, Electronics & Telecommunication]
■ Address : HVPM Campus, Hanuman Vyayam Nagar, Amravati - 444 605 (Maharashtra)
■ Ph.No. (0721) 2563422 ■ Fax No. (0721) 2571170 ■ email : principal@hvpmcoet.in ■ Web Site : www.hvpmcoet.in

Ref : HICOET/8111/017

Date : 2 7 MAR 2017

Declaration by the Head of the Institution

I certify that the data included in this Self-study Report (SSR) are true to the best of my knowledge.

This SSR is prepared by the institution after internal discussions, and no part thereof has been outsourced.

I am aware that the Peer team will validate the information provided in this SSR during the peer team visit.

(Dr. A. B. Marathe)

Principal
H.V.P. Mandal's College of Engineering
& Technology, Amravati

Signature of the Head of the Institution

Place: H.V.P.M. COET, Amravati

Date: 27.03.2017

HANUMAN VYAYAM PRASARAK MANDAL'S
COLLEGE OF ENGINEERING & TECHNOLOGY, AMRAVATI

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■ Ph.No. (0721) 2563422 ■ Fax No. (0721) 2671170 ■ email : principal@hvpmcoet.in ■ Web Site : www.hvpmcoet.in

Ref : H/COET/8112/2017

Date : **2 7 MAR 2017**

Certificate of Compliance

(Affiliated/Constituent/Autonomous Colleges and Recognized Institutions)

This is to certify that **H.V.P. Mandal's, College of Engineering and Technology; Amravati (M.S.)** fulfils all norms

1. Stipulated by the affiliating University and/or
2. Regulatory Council/Body [such as UGC, NCTE, AICTE, MCI, DCI, BCI, etc.] and
3. The affiliation and recognition [if applicable] is valid as on date.

In case the affiliation / recognition is conditional, then a detailed enclosure with regard to compliance of conditions by the institution will be sent.

It is noted that NAAC's accreditation, if granted, shall stand cancelled automatically, once the institution loses its University affiliation or Recognition by the Regulatory Council, as the case may be.

In case the undertaking submitted by the institution is found to be false then the accreditation given by NAAC is liable to be withdrawn. It is also agreeable that the undertaking given to NAAC will be displayed on the college website.

Dr. A. B. Marathe
Principal
Principal
H.V.P. Mandal's College of Engg.
& Technology, Amravati

Place: H.V.P.M. COET, Amravati
Date: 27.03.2017