ANNUAL QUALITY ASSURANCE REPORT (2019-20)
Track ID-MHCOGN27401

Submitted to

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

An Autonomous Institution of the University Grants Commission
P. O. Box. No. 1075, Opp: NLSIU, Nagarbhavi, **Bengaluru - 560 072** India

By

**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 Sant Gadge Baba Amravati University, Amravati)

Part - A
Data of the Institution

1. Name of the Institution : H.V.P.M's College of Engineering & Technology, Amravati-5 (Maharashtra)

    Name of the Head of the institution : Dr. Anant Balkrishna Marathe

    Designation : Principal

    Does the Institution function from own campus: Yes

    Phone No./Alternate Phone No. : 0721-2563342

    Mobile Number : 9850268814

    Registered E-mail : principal@hvpmcoet.in

    Alternate E-mail : pl_ramteke@rediffmail.com

    Address : HVPM Campus, Hanuman Vyayam Nagar, Near Ambadevi Temple, Amravati

    City/Town : Amravati

    State/UT : Maharashtra State

    Pin Code : 444605

2. Institutional Status

    Affiliated / Constituent : Affiliated

    Type of Institution:

    Co-education/Men/Women : Co-education

    Location: Rural/Semi-urban/Urban : Urban

    Financial Status: Grants-in aid/

    UGC 2f and 12 (B)/ Self financing

    (Please specify) : UGC 2f and 12b, Self-Financing

    Name of the Affiliating University : Sant Gadge Baba Amravati University

    Name of the IQAC Co-ordinator : Dr. Prabhakar L. Ramteke

    Phone Number : 0721-2563342

    Alternate Phone number

    Mobile of IQAC Coordinator : 9421818808

    IQAC e-mail address : pl_ramteke@rediffmail.com

    Alternate Email address : shital_vijay@rediffmail.com

3. Website address : www.hvpmcoet.in

    Web-link of the AQAR (Previous Academic Year)

    http://hvpmcoet.in/wp-content/uploads/2020/06/AQAR_REPORT_2018-019.pdf

4. Whether Academic Calendar prepared during the year? : Yes

    Yes/No, if yes, whether it is uploaded in the Institutional website : Yes

    Web link: http://hvpmcoet.in/wp- content/uploads/2019/11/Academic-Calendar-for- Odd-Term-2019-2020.pdf

5. Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1st	B++	2.76	2017	**5 Years** **from**:30/10/2017 **to:** 29/10/2022
2nd				
3rd		At present it is not Applicable		
4th				
5th				

6. Date of Establishment of IQAC: 30/07/2016

7. Internal Quality Assurance System

7.1 Quality Initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	**Date & Duration**	**Number of Participants/ Beneficiaries**
▪ **Discussion on ' Use of:** - ICT Tools, online T-L, Blended mode (Online + offline), - Flipped class room, Continuous education (Internship +FDP), - Skill Sharpening, quality education as per vision, mission and objectives of the Institution	06/04/2020 (One Day)	40-50
▪ **Participation in NIRF**	22/11/2019 (One Year)	15
▪ **Participation in Smart India Hackathon (SIH)**	2019-20	15-20
▪ **A**nnual **Q**uality **A**ssurance **R**eport	Regular Submission of AQAR (Year wise)	600-700
▪ **Skill Sharpening School through IIIT&P Cell** URL: http://hvpmcoet.in/t-and-p-skill-sharpening-school/	01 October-2019 (90 days)	70-80
▪ **A**TAL **R**anking **of I**nstitutions on **I**nnovation **A**chievement**s (ARIIA)**	2019-20	40-50
▪ **UBA Technology Development/ customized projects for Village Development**	02/09/2019	50-60
▪ **AICTE N**ational **B**oard of **A**ccreditation Preparation of Pre-qualifier & SAR for eligible Courses	22/03/2020	30-40

▪ **Academic & Administrative Audit (AAA) conducted to promote quality improvement in each area**	23/09/2019	15-20
▪ **Training on Online Teaching-Learning Platforms & it's used** (Inclusive of Virtual Lab)	20/07/2019	50-60
▪ **Established Research Labs approved by Sant Gadge Baba Amravati University Amravati in the Subjects**: 1. Computer Sci. & Engg. and 2. Electronics & Tele-communication Engg.	25/09/2019	15-25
▪ **Organization of FDP as well as attend of FDPs by the faculties at large on the recent trends in technology**	18/11/2019	10-15
▪ **Centre of Excellence in:** Software Development & Testing Cyber Security	2019-20	20-25
▪ **ISRO's IIRS online nodal training Centre for Student/ faculties**	2019-20	15-20
▪ **Adopted National Innovation and Start-up Policy at the HEI**	2019-20	10-12

Note: Some Quality Assurance initiatives of the institution are:(Indicative list)
- *Regular meeting of Internal Quality Assurance Cell (IQAC); timely submission of Annual Quality Assurance Report (AQAR) to NAAC; Feedback from all stakeholders collected, analysed and used for improvements*
- *Academic Administrative Audit (AAA) conducted and its follow up action*
- *Participation in NIRF*
- *NBA/ NAAC Accreditation*
- *Innovative T-L*
- *Skill oriented Education*
- *UBA Projects*

8. Provide the list of funds by Central/ State Government-

UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/ Department/Faculty	Scheme	Funding agency	Year of award with duration	Amount in Rs.
Institution **Topic:** High Performance Computing Technology **Coordinator:** Dr. P. L. Ramteke	**FDP**	**AICTE-ISTE**	**2018** (02July-18 to 07 July-18)	**3,00000/-**
Institution <u>Project Title:</u> Double layered environment controlled automated green house with light dependent flipped roof System	UBA Technology Development Project	**AICTE-UBA**	2019-20	**1,00000/-**
Institution <u>Project Title:</u> Maintenance and training to reutilize for all unused green house in Villages	UBA Technology Customized Project	**AICTE-UBA**	2019-20	**50,000/-**
Institution <u>Project Title:</u> Sanitation and Solid liquid waste management from indivisual usage (Toilets-Bathrooms) in Rural area	UBA Technology Customized Project	**AICTE-UBA**	2019-20	**1,00000/-**

9. Whether composition of IQAC as per latest NAAC guidelines: Yes

*Upload latest notification of formation of IQAC:

http://hvpmcoet.in/wp-content/uploads/2018/01/IQAC_Committee.pdf

https://assessmentonline.naac.gov.in/public/Postacc/Formation/11598_Formation.pdf

10. No. of IQAC meetings held during the year: Four (04)

The minutes of IQAC meeting and compliance to the decisions have been uploaded on the institutional website (Yes/No) : **Yes**

   (Please upload, minutes of meetings and action taken report)

http://hvpmcoet.in/wp-content/uploads/2019/12/IQAC_Minitus-of-Meeting-Agenda.pdf

11. Whether IQAC received funding from any of the funding agency to support its activities during the year?   Yes   No   ✓

        If yes, mention the amount: -   Year: -

12. Significant contributions made by IQAC during the current year
   (Maximum Five bullets)
- Master and Doctoral research Title(s) approval
- Academic Audit and Monthly Progress Reports
- AICTE NBA Accreditation Decision
- Academic and other committees as well as Cells are established for Students, Faculties, College development
- Academic & College development activities

13. Plan of action chalked out by the IQAC in the beginning of the Academic year towards Quality Enhancement and the outcome achieved by the end of the Academic year

Plan of Action	Achievements/Outcomes
1. Academic Calendar	Made academic Calendar for the whole year
2. B.Voc Course	Started some B.Voc. Courses
3. Internship to students	Internship Provided to the Students
4. UBA Projects for Village Development	UBA Projects Developed
5. Induction Programme for Fresher's	Conducted Induction Programme for fresher's
6. Innovative T_L Methodology	Used Innovations in T-L Process
7. Academic Audit	Conducts Academic Audit
8. Best Practices	Best practices initiated

14. Whether the AQAR was placed before statutory body?   Yes✓ /No

Name of the statutory body: **College Development Committee** (As per Section 97 of MPUA 2016)   Date of meeting(s): 24 Sept., 2019

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning?
Yes✓/No   Date: 15 Sept., 2017

16. Whether Institutional data submitted to AISHE: Yes✓/No

Year: 2019-20   Date of Submission: 15/01/2020

17. Does the Institution have Management Information System?
   Yes ✓ No

If yes, give a brief description and a list of modules currently operational.
(Maximum 500 words)

The College have Management Information System: The following are currently operational modules

SETU (**S**tudent **E-T**ech **U**nit): It is Single window Program Unit available for student's help at Computer Centre. When the students get confirm admission,   then they need to come first at this unit to keep store his/her e-information in this unit for further used. He/She will be provided the

student's information form, to fill-up his/her total information, then he/she will sit with data entry operator and data entry operator will filled up their provided information in the computer. At the same time his related certificates shall be Photostat & Scanned for future used. His/her photo will be taken by Web Camera. He/she will readily get the requisite documents at any time if they needs from this unit by the staff. All preliminary processes of Photostat, Data entry etc. is done. 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 Identity 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. Due to this unit past student's information records get easily available for Students as well as for the College.

Scholarship Module: The Student Section is working for students, which help them to solve the queries related to scholarship. As per the government rules, various types scholarships assistance are given to the backward class Freeship, backward class scholarship, physically handicap scholarship, EBC freeships and minority scholarship, OBC Scholarship Special EBC class scholarship etc. These scholarships received to the students from state government, central government and other national agencies. This unit Incharge support to rectify and resolve the queries regarding how to filled up scholarship forms online, documents needed, or any other related issues. Apart from this adequate number of faculty and staff are appointed to co-assist to SC/ST, OBC students and other scholarship holders. The aim of this unit is to solve the student's scholarship related issue easily and to use the financial support from Due to MIS of scholarship section it is easy to sort out the problems and queries regarding scholarship issues. It is seem to be found that it resolve the most of scholarship related issues.

Account Management System: Account management is handled by using account software tally. It helps to prepare account statements. This section is useful to monitor and effective use of available financial resources through standard operating procedure (SOP), budgeting. There are two types of institutional mechanism for audit.
1. Internal audit and 2. External audit
Internal audit will be done by the Institute internally and external audit where College appointed charted accountant for external audit. All the financial transactions (receipts/payments) make available by the College for checking and auditing of accounts from Chartered Accountant (CA). The CA produces the Audited statement report & utilization certificates to the Institution. This way account management system helps to the finance and account section of the College.

Part-B

CRITERION I – CURRICULAR ASPECTS
1.1 Curriculum Planning and Implementation

1.1.1   Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

The Curriculum is essential ingredient of any education system. All other **aspects** whether teaching, learning and evaluation or research and development, infrastructure and learning resources, student activities and support system, all revolve around it. Our Institution has the mechanism for well planned curriculum delivery and documentation w.r.t. to the aspects.

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 includes (Working Days), Examination Time table (Days), Teaching and Examination Scheme is also given by affiliating University. The College is prepares its own academic schedule as per academic calendar of University. Course wise time table, internal assessment schedule in consultation with HOD's are to be accommodating along with effective coverage of syllabus, co-curricular and extracurricular activities, unit examination, common test examination, co-curricular activities, etc. .

Process of Planning & Effective Curriculum Implementation

a.   Preparation of Academic Dairy & Academic Calendar of College
b.   Distribution of College activity portfolios among faculty & other staff
c.   Identification of key performance areas by the faculty
d.   Distribution of subjects by HODs according to workload
e.   Display of Time-Table
f.   Teachers are encouraged to impart the curriculum/subject syllabus through innovative teaching learning methods including brain storming, flip-class room based, power point presentations, assignments, discussions, workshops, seminars, industrial visits, e-learning resources, NPTEL Videos apart from regular/traditional chalk and talk methods is also used
g.   Prerequisite identification and its conduct, before the start of subject teaching
h.   Preparation of Teaching & Session plan by subject teacher well in advance
i.   Preparation of Laboratories to ensure working of Lab. instruments and availability of consumable if any
j.   Conduction of Theory and Practical as per academic schedule, teaching plan & session plan
k.   Fast learners and slow learners are identified by Know your students scheme Remedial classes and tests for weak students.
l.   Special projects are allotted to fast learners & final year students based on industry, Hackathon, UBA work and other relevant areas

1.1.2 Certificate/ Diploma Courses introduced during the Academic year				
Name of the Certificate Course	Name of the Diploma Courses	Date of introduction and duration	Focus on employability/ entrepreneurship	Skill development
B.Voc. Banking , Financial Services and Insurances/BFSI (After 1 Year Successful Completion of the Course)	**B.Voc.** Banking , Financial Services and Insurances /BFSI (After 2 or 3 Years Successful Completion of the Course get Diploma or Advance Diploma respectively)	23.09.2020 3 Years	Employability/ Entrepreneurship	-Hunger to learn. Roles n financial services involve providing information or advice for example, journalism, data analysis, and customer service on complex systems -Market awareness -Analytical Skill,Communication skill -Team works -Customer service
B.Voc. Software Development (After 1 Year Successful Completion of the Course)	B.Voc. Software Development (After 2 or 3 Years Successful Completion of the Course get Diploma or Advance Diploma respectively)	23.09.2020 3 Years	Employability/ Entrepreneurship	-Data Structures and Algorithms -Programming Languages -Source Control -Text Editors -Integrated Development Environment -Databases -Networking Basic, SDLC -Basics of Testing -Cross Platform Software

B.Voc. IT/ITes/ Cyber Security (After 1 Year Successful Completion of the Course)	B.Voc. IT/ITes/ Cyber Security (After 2 or 3 Years Successful Completion of the Course get Diploma or Advance Diploma respectively)	23.09.2020 3 Years	Employability/ Entrepreneurship	-Problem Solving Skills -Technical Aptitude -Knowledge of Security across Various Platforms -Fundamental Computer Forensics Skills -A Desire to Learn Understanding of Hacking Communication skill
B.Voc. Automotive Manufacturing Technology (After 1 Year Successful Completion of the Course)	B.Voc. Automotive Manufacturing Technology (After 2 or 3 Years Successful Completion of the Course get Diploma or Advance Diploma respectively	23.09.2020 3 Years	Employability/ Entrepreneurship	-Effective technical and problem-solving skill -Commercial awareness -Good attention to detail -Creativity -Interpersonal and Communication skills -Presentation skills Organisational Skills

B.Voc. Internet of Things (After 1 Year Successful Completion of the Course)	B.Voc. Internet of Things (After 2 or 3 Years Successful Completion of the Course get Diploma or Advance Diploma respectively)	23.09.2020 3 Years	Employability/ Entrepreneurship	Circuit design Microcontroller programming AutoCAD Machine Learning Security infrastructure Big Data Electrical engineering Security Engineering
B.Voc. Automobile Design Technology (After 1 Year Successful Completion of the Course)	B.Voc. Automobile Design Technology (After 2 or 3 Years Successful Completion of the Course get Diploma or Advance Diploma respectively)	23.09.2020 3 Years	Employability/ Entrepreneurship	Aesthetic Skill Communication Skill Time-management Technical knowledge Creativity Critical thinking and Problem-solving skills

1.2 Academic Flexibility

1.2.1 New programmes/courses introduced during the Academic year

Programme with Code	Date of Introduction	Course with Code	Date of Introduction
B.Voc.	23/09/2020	Banking , Financial Services and Insurances	23/09/2020
B.Voc.	23/09/2020	Software Development	23/09/2020
B.Voc.	23/09/2020	Cyber Security	23/09/2020
B.Voc.	23/09/2020	Automotive Manufacturing Technology	23/09/2020
B.Voc.	23/09/2020	Internet of Things	23/09/2020
B.Voc.	23/09/2020	Automobile Design Technology	23/09/2020

1.2.2 Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the Academic year

Name of Programmes adopting CBCS	UG	PG	Date of implementation of CBCS / Elective Course System	UG	PG
1. B.E. (Computer Science & Engg.)	**8**	**6**	As prescribed by the University	**B.E.**	**M.E.**
2. B.E. (Information Technology)	**8**	**-**	As prescribed by the University	**B.E.**	**-**
3. B.E.(Electronics & Telecommunication Engg.)	**8**	**6**	As prescribed by the University	**B.E.**	**M.E.**
4. B.E.(Mechanical Engg.)	**8**	**-**	-- do--	**B.E.**	**-**

Already adopted (mention the year)	2011-12

1.2.3 Students enrolled in Certificate/ Diploma Courses introduced during the year

	Certificate	Diploma Courses
No of Students	156	30

1.3 Curriculum Enrichment

1.3.1 Value-added courses imparting transferable and life skills offered during the year

Value added Courses	Date of Introduction	Number of Students Enrolled
(i) 3 weeks Induction Program (First Year)	25/07/2019	65
(ii) Human Values	10/09/2019	100
(iii) EVS Awareness	20/09/2019	75

1.3.2 Field Projects / Internships under taken during the year

Project/Programme Title	No. of students enrolled for Field Projects / Internships
Verification of I2C Protocol using UVM Methodology (CTA-Embedded, IoT & VLSI Verification)	**Four Students** 1. Harshada Kale 2. Sanjukta Vikhar 3. Saurabh Dabhade 4. Prashil Karhe
Machinery Safety Management (Company: Copper Cloud IoTech Pvt. Ltd., Pune)	**Five Students** 1. Aachal Mishra 2. Mayank Sahu 3. Taher Nasirabadwala 4. Vaishnavi Mendhe 5. Lokesh Bhagat

Indexing of Folders on Shared Drives (CTA-Software Testing) Company: Tristha Global	**Four Students** 1. Nikita Gawande 2. Kunal Sahare 3. Shraddha Bhande 4. Priyanka Hajare
Statement of work completion alert (CTA-Software Testing) Company: Tristha Global	**Three Students** 1. Ashwini Wakode 2. Kalyani Barotkar 3. Sahil Kshirsagar
E-Banking Loan Application **(CTA-Software Testing)** **Company: Tristha Global**	**Four Students** 1. Rohit Solanke 2. Himanshini Vidhate 3. Farhan Abdul 4. Shweta Ingole

1.4 Feedback System

1.4.1 Whether structured feedback received from all the stakeholders (Yes/No)

1. Students	2. Teachers	3. Employers	4. Alumni	5. Parents
Yes	Yes	Yes	Yes	Yes

1.4.2 How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Students Feedback: The Feedback from students for teachers is taken twice in a year. This year due to pandemic situation it is taken online through Google forms, where link of Google form is shared among the students to provide feedback. Forms are categorized in Grades from excellent to poor for every point of view also students have right to give their suggestions and comments if any.

Alumni Feedback: College takes alumni meets as per their suitable free time. It may be organized at the convenient place for all. The discussion session are arranged with the alumni on various topics of current trends in the Industry. The feedback from Alumni is also taken in regards with their current working platforms, organization and other relevant details. Head of respective Department, teachers and TPO are the part of this meet.

Industry/ Employer feedback:
The feedback from Industry particularly those who come for campus placement and others too about the curriculum of beyond syllabus, training needs are regularly taken and actions are accordingly initiated. The frequently industry visit of team includes TPO, Teachers and HOD are arranged with the purpose of placement of students, their requirements, platforms, invite them for seminar, workshop for students and other relevant things to be understood from them. Also interact with the related Industries to know the gap between Industry expectations and the available curriculum/syllabus of University. It is communicated to the University through faculty members who are members of Board of Studies for the benefits of students. As it is rigid process for change in syllabus therefore our Institutes introduced employment enhancement programme through Core Technical Areas (CTA) on the basis of the feedback of various stake holders specially Industry.

Parents feedback:

Every year during parents meet feedback from parents is taken regarding facilities and performance of their ward. The parents have been informed about this meeting well in advance. This type of meeting is conducted department wise.

Teachers Feedback: It is very important to take teachers feedback for College and student development. It is orally given by the teachers in various meetings at Departmental and College level like College Council meet, Staff Council Meet, Students Council meet, Meetings of IQAC, CDC meets and departmental meets etc. There is no special feedback forms designed for teachers feedback. In future it will be design.

CRITERION II - TEACHING-LEARNING AND EVALUATION

2.1 Student Enrolment and Profile

2.1.1 Demand Ratio during the year

Name of the Programme	Number of seats available	Number of applications received	Students Enrolled
Computer Science & Engg.	60	37	37
Information Technology	30	18	18
Mechanical Engg.	60	03	03
Electronics and Telecommunication Engineering	60	05	05

2.2 Catering to Student Diversity

2.2.1. Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (**UG**)	Number of students enrolled in the institution (**PG**)	Number of full time teachers available in the institution teaching only UG courses	Number of full time teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019-20	63	105 09+96 (ME+MBA)	56 49-regular 07-adjunct	06	09

2.3 Teaching - Learning Process

2.3.1 Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of teachers on roll	Number of teachers using ICT (*LMS, e-Resources*)	ICT tools and resources available	Number of ICT enabled classrooms	Number of smart class Rooms	E-resources and techniques used
56	56	80 • High-speed , high bandwidth optical fiber lease line for	12	03	15 Use of open course

					material from, E-books b) You tube c) SWAYAM d) MOOC e) NPTEL f) E-journals g) Use of Padlet h) Slide share
		• Wi-Fi facility • Networking of computer (Intra-net) • Class room set up with high speed internet connection • e-repository consisting of NPTEL videos, e-books • Classroom • Deployment of MOOC (Massive Open Online Courses), SWAYAM			

2.3.2 Students Mentoring System available in the Institution? Give details (Maximum 500 words)

The mentoring system has been introduced for establishing better and effective relationship between students and teachers. Students are advice and support through fallowing various counselling activities: There are basically two types of mentoring: Informal and formal institution conducts both types of mentorship. Expected outcomes through this mentorship are academic success adjustment in the campus to built self confidence , carrier awareness, communication skill and interpersonal skill development

• Professional councillor • Special session for girl's counselling • 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 to find out problems of student including academic, administrative and personal too. 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. The group of girls is having female faculty mentors 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 hostellers. The visiting faculty is appointed to motivate and develop the personality of students. Under Skill Sharpening 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 counselling 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. And mainly AICTE mandatory courses executed like universal human values that help students for their happiness and prosperity for all human beings along with to understand harmony and lead an ethical life.

Number of students enrolled in the Institution	Number of fulltime teachers	Mentor: Mentee Ratio
529	**56**	**10**

2.4 Teacher Profile and Quality

2.4.1 Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D.
71	71	NIL	NIL	12

2.4.2 Honours and recognitions received by teachers
(received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019-20	R. G. Anantwar	Asst. Professor	Winner in State level Badminton Championship organised by Maharashtra Badminton

2.5 Evaluation Process and Reforms

2.5.1 Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year-end examination
1. **Computer Science & Engg.**	1-1346007449 CSE	II/FIRST	20/06/2020	14/08/2020
2. **Mechanical Engg.**	1-2183084043 MECH	IV/SECOND	30/06/2020	20/08/2020
3. **Electronics & Telecomm. Engg.**	1-1346007451 EXTC	VI/THIRD	28/06/2020	20/08/2020
4. **Information Technology**	1-1346007446 IT	VIII/FINAL	30/06/2020	09/08/2020

2.5.2 Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

Continuous evaluation of students is essential for their sustainable performance hence structure evaluation process evolved for there continues assessment. The evaluation process i.e. test includes unit test, common test, MOCK tests that are conducts based on curriculum and course syllabus. Practical examination and oral examination is also a part of evaluation. We also prefer to use Rubrics that help to achieve the desired outcomes of the course(s).Evaluation of student is done by external agency too for their Communication skill, Aptitude, Core technical knowledge for employability enhancement skills, Internship and evaluation of internship projects by industry experts as below:

• Technical competition like Hackathon monitored by industry experts
• Group assignments, subject seminars, mini-projects
• Class test, Quiz, Remedial test
• Internal work submission
• Project report for the subjects like environmental studies
• Use of Language lab for communication skill evaluation

2.5.3 Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

The academic calendar is prepared & adhered for conduct of examination and other activities inline with Academic calendar of affiliated University (Sant Gadge Baba Amravati University, Amravati). The College need follow the same with exploration of curricular activities other than internal examination schedules. Our Calendar includes: the start and end session, total teaching days semester-wise, Subjects allotment to teachers by respective HoDs before start of session, Project group formations, Internship programme schedules, Preparation of teaching plan and KYS, IQAC Meeting schedules, College council Meets, Display of time-table, UBA and NSS Activities, Swachh Bharat Abhiyan, Important days celebrations inclusive of National days, Student's meets, Assignment week, test schedules, Youth festival, Blood donation Camp, Practical submission schedules, Feedback analysis by IQAC, College council meet, FDP organization, Industrial tour. The College academic calendar help to conducts academic and other activities in time bound.

2.6 Student Performance and Learning Outcomes

2.6.1 Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution
(to provide the weblink)

1) Computer Science & Engineering   *http://hvpmcoet.in/cse-peos-and-pos*
2) Electronics & Telecommunication   *http://hvpmcoet.in/e-and-t-peos-and-pos*
3) Information Technology   *http://hvpmcoet.in/it-peos-and-pos*
4) Mechanical Engineering   http://hvpmcoet.in/mechanical-peos-and-pos
5) Master of Business Management   *http://hvpmcoet.in/peos-of-mba*

2.6.2 Pass percentage of students

Programme Code	Programme name	Number of students appeared in the final year examination	Number of students passed in final semester/year examination	Pass Percentage
1-1346007451	EXTC	36	35	97.22%
1-1346007446	IT	07	07	100%
1-1346007449	CSE	63	62	98.41%
1-2183084043	MECH	51	51	100%

2.7 Student Satisfaction Survey

2.7.1 Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (Results and details be provided as weblink)

Student Satisfaction Survey (SSS) on overall Institutional performance and results provided on:

http://hvpmcoet.in/wp-content/uploads/2021/08/Student_Satisfaction_Survey_report_onTeaching_Learning_and_Evaluation_Final.pdf

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 Resource Mobilization for Research

3.1.1 Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding Agency	Total grant sanctioned	Amount received during the Academic year
Major projects	One Year	AICTE-UBA	2 Lacs	2019-20
Minor Projects	Six Months	AICTE-UBA	0.5 Lakh	2019-20
Interdisciplinary Projects	One Year	AICTE-UBA	1 Lakh	2019-20
Industry sponsored Projects				
Projects sponsored by the University/ College	One Year	College	0.5 Lakh	2019-20
Students Research Projects *(other than compulsory by the College)*	-	-	-	2019-20
International Projects	-	-	-	-
Any other(Specify)	-	-	-	-
Total			400000	400000

Research fund Sanction and Received 2019-20.xls

3.2 Innovation Ecosystem

3.2.1 Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of Workshop/Seminar	Name of the Dept.	Date(s)
Intellectual Property Right IPR by Advocate Swapnil Gawande	CIIITP	14/01/2019
Confidence building	CIIITP	09/09/2019
Interpersonal Skill Development	CIIITP	16/09/2019
Ice breaking Activity to build confidence	CIIITP	23/09/2019
Manners, Etiquettes and articulation skills development	CIIITP	30/09/2019
Body Language and Grooming	CIIITP	10/10/2019

3.2.2 Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of the Awardee	Awarding Agency	Date of Award	Category
'Sanitation and solid-liquid waste management from individual usage	Institution	AICTE-UBA	07/10/2019	**Teacher/ (Technology Development)**

through toilets/bathrooms in rural areas'				
College Magazine	Prof. A. B. Kharate	SGB Amravati University	2019	**Magazine**

3.2.3 No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Centre	Name	Sponsored by
HVPM COET	Host Institute and Business Incubation centre	Applied to MSME through DI office, Nagpur

Name of the Start-up	Nature of Start-up	Date of commencement
To provide solutions For agriculture through MSME (Maha startup medium small entrepreneur)	Agrotech solutions And services	09/07/2019

3.3 Research Publications and Awards

3.3.1 Incentive to the teachers who receive recognition/awards

State	National	International
01	01	-

3.3.2 Ph.D.s awarded during the year (*applicable for PG College, Research Centre*)

Name of the Department	No. of Ph.D.s Awarded
Computer Science & Engg.	01

3.3.3 Research Publications in the Journals notified on UGC website during the year

	Department	No. of Publication	Average Impact Factor, if any
National	-	-	**-**
International	CSE	8	5.0
	EXTC	4	4.0
	IT	4	4.5
	Library Science	3	4

3.3.4 Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	No. of publication
CSE	2
ENTC	1
IT	1

3.3.5 Bibliometrics of the publications during the last Academic year based on average citation

index in Scopus/ Web of Science or Pub Med/ Indian Citation Index						
Title of the paper	**Name of the author**	**Title of the journal**	**Year of publication**	**Citation Index**	**Institutional affiliation as mentioned in the publication**	**Number of citations excluding self citations**
A Survey : Use of Data Mining in Various Field	Dr. A. B. Raut	International Journal of Scientific Research in Computer Science, Engineering and Information Technology	2018	1	Professor, Department of Computer Science , H.V.P.M.C.O. E&T, Amravati, Maharashtra, India.	1
Personal Google API Assistant System using Raspberry Pi	Dr. P. L. Ramteke	International Research Journal of Engineering and Technology	2019	5	Professor, Department of Computer Science, H.V.P.M. C.O.E&T, Amravati, Maharashtra	5

3.3.6 h-index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the paper	Name of the author	Title of the journal	Year of publication	h-index	Number of citations excluding self citations	Institutional affiliation as mentioned in the publication
Automatic Video Summarization: A need of today	V. S. Gangwani & Dr. P. L. Ramteke	Journal of Seybold Report (Scopus Journal)	2020	h-index	4	Asstt. Prof./ Professor, Department of IT & CSE, H.V.P.M. C.O.E&T, Amravati, Maharashtra, India.

3.3.7 Faculty participation in Seminars/Conferences and Symposia during the year :

No. of Faculty	International level	National level	State level	Local level
Attended Seminars/ Workshops	2	2	2	4
Presented papers	1	-	-	1
Resource Persons	-	-	-	1

3.4 Extension Activities

3.4.1 Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the Activities	Organising unit/ agency/ collaborating agency	Number of teachers **co-ordinated** such activities	Number of students participated in such activities
Swachh Campus	NSS Unit	Prof. S.U. Bande	40-50
Tree Plantation	NSS Unit	Prof. S.U. Bande	30-40
Blood Donation Camp	NSS Unit	Prof. S.U. Bande	30-40
Unnat Bharat Abhiyan	UBA Unit	Dr. P. L. Ramteke	10-20
Wachan Prerna Din	Library Unit	Dr. Milind Anasane	40-50
Vasundhara Day	NSS Unit	Prof. S.U. Bande	30-40
COVID Awareness	UBA/NSS Unit	Dr. P. L. Ramteke & Prof. S. U. Bande	40-50

3.4.2 Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the Activity	Award/recognition	Awarding bodies	No. of Students benefited
College Magazine	Second	University	400

3.4.3 Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/ agency/ collaborating agency	Name of the activity	Number of teachers **coordinated** such activities	Number of students participated in such activities
Womens and child development	**Womens & child development office HVPM COET**	Childs and Women Awareness	10	100
Hutatma Din	**NSS Unit**	**Hutatma Diwas**	5	20
NSS Camp	**NSS Unit**	**Awareness of Social Problems**	3	30

3.5 Collaborations

3.5.1 Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of Activity	Participant	Source of financial support	Duration
Unnat Bharat Abhiyan	**10-15**	AICTE-UBA	**1 Year**
Cyber Security Awareness	**20-30**	HVPM COET	**2 Days**

3.5.2 Linkages with institutions/industries for internship, on-the-job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration (From-To)	Participant
MOU	Internship Programs	Thrista Global and HVPM's, C.O.E.T. Amravati	01/10/2018 31/12/2019	10
AICTE	UBA	HVPM's, C.O.E.T. Amravati	01/06/2018 31/07/2018	15

3.5.3 MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose and Activities	Number of students/teachers participated under MoUs
TCoE (Tristha)	**01/10/2018**	Work closely with industry for identify their requirements & enhance quality of TE in India	**40**

CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 Physical Facilities

4.1.1 Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
67.65 Lacs	65.70 Lacs

4.1.2 Details of augmentation in infrastructure facilities during the year

Facilities	Existing	Newly added
Campus area	11.64	Nil
Class rooms	18	Nil
Laboratories	40	Nil
Seminar Halls	03	Nil
Classrooms with LCD facilities	18	Nil
Classrooms with Wi-Fi/ LAN	18	Nil
Seminar halls with ICT facilities	18	Nil
Video Centre	03	Nil
No. of important equipments purchased ($\geq$ 1-0 lakh) during the current year.	Yes	Nil
Value of the equipment purchased during the year (Rs. in Lakhs)	Nil	13.07
Others	Nil	Nil

4.2 Library as a Learning Resource

4.2.1 Library is automated (Integrated Library Management System -ILMS)

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
SOUL	Partialy	2.0	2006

4.2.1 Library Services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	21630	7481091	362	206661	21992	7687752
Reference Books	1395	328747	23	1875	1418	330622
e-Books	1815	00.00	1717	00.00	3532	00.00
Journals	65	136725	65	149825	65	149825
e-Journals	03 Packages	90120	8	219470	11	219470
Digital Database	03		1		4	
CD & Video	1074	0	0	0	1074	0
Library automation	Partially Automated					
Weeding (Hard & Soft)	NPTEL NDL	Free Membership	NPTEL NDL	Free Membership	NPTEL NDL	Free Member ship
Others (specify)	21630	7481091	362	206661	21992	7687752

4.3 IT Infrastructure

4.3.1 Technology Upgradation (Overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Available band width	OTHERs
Existing	427	14	One 50 Mbps connection And Two 10 Mbps connection		1	1	6	50 mbps	--
Added	--	--	Upgrade 0f speed to 100 mbps & 20 mbps of exiting connection	--	---	---	----	100 mbps	--
Total	427								

4.3.2 Bandwidth available of internet connection in the Institution (Leased line)

100 MBPS

4.3.3 Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre

	and recording facility
-	-

4.3.4 E-content developed by teachers such as: e-PG-Pathshala, CEC (under e-PG-Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the teacher	Name of the module	Platform on which module is developed	Date of launching e – content
-	-	-	-

4.4 Maintenance of Campus Infrastructure

4.4.1 Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
189.4 Lacs	72.16 Lacs	109.28 Lacs	96.81 Lacs

4.4.2 Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. *(maximum 500 words)* (information to be available in institutional Website, provide link)

Separate departments are available for maintaining the following Mechanisms:

Maintenance team is consisting of Asst. Workshop Supr., Electrician, Carpenter, Plumber, Civil, and Meson. A team of Supporting staff of Labs consisting of Technical asst., Skilled Assistant & Hardware Maintenance Engg. There is outsourcing strategy for Major Maintenance. The use of Antivirus for Computers, Inspection for earthling and Leakage of current, Charging of batteries of Invertors, printers' maintenance and other *Breakdown Maintenance* are generally done by outsourcing and preventive maintenance of Electrical Generator, Cleaning of Solar panel & cleaning of terrace before monsoon, Maintenance of Machine and computers etc are done internally.

Internship Policy: 1. Internship/ Entrepreneurial activities / Project work and Inter/ Intra Institutional Training may be counted toward activities under internship activities. 2. Fulltime intern is expected to spend 40 - 45 hours per week. Thus 600 to 700 hours of total internship duration for Graduate

 3. Internships may be full or part-time; they are full-time in summer vacation and PT during academic

CRITERION V - STUDENT SUPPORT AND PROGRESSION

5.1 Student Support			
5.1.1 Scholarships and Financial Support			
	Name /Title of the scheme	**Number of students**	**Amount in Rupees**
Financial support from Institution	Award to meritorious and color coat holder	5	50000
Financial support from other sources			
a) National	**Scholarships**	**529**	**2,20,95000**
Directorate of Technical Education	Rajarshi Chhatrapati Shahu Maharaj Shikshan Shulkh Shishyavrutti Yojna (EBC)	72	2302000
	Dr. Panjabrao Deshmukh Vasatigruh Nirvah Bhatta Yojna (Hosteller M.A. Scholarship)	3	23000
Social Justice and Special Assistance Department	Government of India Post-Matric Scholarship	67	4731000
	Post-Matric Tuition Fee and Examination Fee (Freeship)	18	1259000
Tribal Development Department	Post Matric Scholarship Scheme Government Of India	11	782000
	Tuition Fee & Exam Fee for Tribal Students (Freeship)	3	206000
VJNT,OBC and SBC Welfare Department	Post Matric Scholarship to OBC Students	212	6758000
	Post Matric Scholarship to SBC Students	6	376000
	Post Matric Scholarship to VJNT Students	18	1153000
	Tuition Fees and Examination Fees to OBC Students	85	2744000
	Tuition Fees and Examination Fees to SBC Students	8	510000
	Tuition Fees and Examination Fees to VJNT Students	12	783000
Ministry of Minority	Scholarship for students	6	150000

Affairs	of minority communities pursuing Higher and Professional courses (DTE) (State Minority)		
Social Welfare Department	Bharatratna Dr. Babasaheb Ambedkar Swadhar Yojana	6	258000
Sant Gadge Baba Amravati University	Sant Gadge Baba Vidyarthi Kalyan Nidhi Shishyavrutti Yojana [SGBVKNSY]	2	60000

5.1.2 Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
NSS	December-2019	50	HVPM COET
Soft Skill Development	01Aug 2019 to 10 Sep-2019	100	Prof. Shrikant Borgaonkar
Remedial Coaching	20 to 30 Oct- 2019	25-30	Subject Teachers
Language Lab.	At the start of session	60	HVPM COET
Bridge Courses-CTA	At each session	100	HVPM COET
Yoga day & Meditation	21/06/2019	450	Yog Vibhag of HVPM
Personnel Counselling	At all time	20-40	HoDs, Principal
Mentorship	Every day as per need	10 students/ Per teacher	Allotted mentor teacher
Career Guidance	01Aug 2019 to 10 Sep 2019	100	Teachers, HoDs, T&P Officer and Prof. Borgaonkar
Guidance for GATE	01Aug 2019 to 31 Dec 2019	30-40	GATE Forum
Expert Talk on Career Guidance	25 Sept-2019	Swapnil Joshi	Alumni

5.1.3 Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students by Guidance for Competitive examination	Number of benefited students by Career Counselling activities	Number of students who have passed in the competitive exam	Number of students placed
2019-20	Career Counselling	529	529	150	50

| 2019-20 | Interaction with industrial personnel of company for career guidance | - | 30 | - | 2 |

5.1.4 Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	No. of grievances redressed	Average number of days for grievance redressal
02	02	8

5.2 Student Progression

5.2.1 Details of campus placement during the year

On campus			Off Campus		
Name of Organizations Visited	Number of Students Participated	Number of Students Placed	Name of Organizations Visited	Number of Students Participated	Number of Students Placed
Pie Infocomm Pvt. Ltd., Lucknow	101	19	Eternus Solutions, Pvt. Ltd, Pune	25	1
MERCE Technologies	5	1	Casepoint	41	1
CAPGEMINI, Mumbai	4	1	TCS	-	2
-	-	-	FENDAHL TECHNOLOGY, NAGPUR	-	2
-	-	-	DHOOT TRANSSMISSIONS	27	20
-	-	-	NETMONASTERY, MUMBAI	-	3

5.2.2 Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of Institution joined	Name of Programme admitted to
2019-20	Khapare Nikita	CSE	CSE	HVPM COET Amravati	M.E.

	Wahane Snehal	CSE	CSE	HVPM COET Amravati	M.E.
	Bramhanand Renu	CSE	CSE	HVPM COET Amravati	M.E.
	Gajbhar Ramesh	ENTC	ENTC	HVPM COET Amravati	M.E.
	Gupta Ashita S.	ENTC	ENTC	GH Raisoni, Amravati	M. Tech.
	Baitule Maithali	ENTC	ENTC	HVPM COET Amravati	M.E.
	Kumre Diksha	CSE	CSE	HVPM COET Amravati	M.E.

5.2.3 Students qualifying in state/ national/ international level examinations during the year (eg: NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	No. of Students selected/ qualifying	Registration number/roll number for the exam
NET		
SET		
SLET		
GATE		
GMAT		
CAT		
GRE		
TOFEL		
Civil Services	01	
State Government Services		
Any Other		

5.2.4 Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Participants
Gathering	College	90

5.3 Student Participation and Activities

5.3.1 Number of awards/medals for outstanding performance in sports/cultural activities at National/International level (award for a team event should be counted as one)

Year	Name of the award/ medal	National/ International	Sports	Cultural	Student ID number	Name of the students
2019	Gold Medal	National	-	-	-	Snehal

						Autkar
2019	Bronze Medal	National	-	-	-	Ganesh Pise
2020	Aegis Graham Bell	National	-	-	-	Priydarshani Bhuyar

5.3.2 Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

Student Council call it as a Student representative committee (SRC), which is to be formed by certain rules and regulation listed below: Criteria for selection of SRC member: As per provision of Maharashtra University Act 2016 Formation of SRC. 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. The nomination of the student members of the Students Council shall be made every year, as soon as after the commencement of 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 up to 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 One third of the members of 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. Various activities are done by SRC committee such as attend feedback related meetings, organize and support blood donation camp, active participation in NSS activities, organize sports cultural fest, Tree plantation, organize and support departmental forums activities. Annual Gathering Annual gathering is organized by college every year which is handled by faculties as well as students. General secretary is selected from student who is responsible for handling Gathering events. Committees are formed by General secretary of college and members of these committees are students. NSS: NSS camp and various activities are scheduled during the year. NSS faculty in-charges select coordinators from students. Faculty in-charges, student coordinators as well NSS participants are responsible to handle various events. Activities Under NSS are Tree Plantation, Festival celebration at orphanage and old age home, Swachh Bharat Abhiyan, Celebration of birth anniversary of famous personalities, Blood Donation Camp. Eye Checkup, Skill Development Training, Cycle rally on Occasion of World Heart day, Self Defense training for Girls, Cycle rally on Occasion of World Heart day, "NSS pathakache udghatan and Gajar Gawat Nirmulan Abhiyan". Departmental forum: Each department has departmental forum as Utakarsh Forum of CSE Department, FEATS forum of EXTC, ITSA forum of IT and Dynamic forum of Mechanical. Secretary, joint secretary and coordinators are elected from student by faculties. Various activities are arranged by the students during the session.

5.4 Alumni Engagement
5.4.1 Whether the institution has registered Alumni Association? Yes/No, if yes give details (maximum 500 words):
Yes, Institute has registered alumni association. This association has been started from 14/12/2009 and the 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 also donate books to college library for student's welfare. Every year alumni members are used to visit the Institute and give guidance about carrier and recent trends in Technologies. Alumni expert talk is frequently arranged whenever it is possible. Alumni association takes responses from alumni time to time through emails or telephonic talk. Feedback is taken from alumni to improve training and placement activities, to generate awareness about recent trends. Alumni also support for short duration training programme for their juniors along with financial help. The Institute is always finding their help for the recruitments of the students. Institute take their feedback for curriculum development as per industrial trends and needs.
5.4.2 No. of enrolled Alumni:
204 (Two Hundred Four)
5.4.3 Alumni contribution during the year (in Rupees) :
Rs100000/-
5.4.4 Meetings/activities organized by Alumni Association :
Alumni meet of pass out batch 2019 on dated 25 Jan 2020 and arranged discussion session on their working platforms and environment.   **Career guidance by alumni** Mr. Akash Khapre of CSE Department

CRITERION VI –GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 Institutional Vision and Leadership

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

Institutional Leadership: The governance of the Institution is a mirror of an effective leadership in tune with the vision and mission of Institution. The Institution follows a democratic and participatory mode of governance with all stakeholders participating in academic, research and administration. The Governing Body delegates authority, to the Principal who in turns share it with the different levels of functionaries in the College. The Heads of Departments, section in-charges, Co-ordinators of IQAC Cell, the Conveners of various committees and cells along with the staff representatives on higher decision-making bodies play important roles in determining the Institutional policies and SOPs.

6.1.1 Mention two practices of decentralization and participative management during the last year (maximum 500 words)

Following are two practices of decentralization and participative management.

1. Delegation of authority and operational autonomy to the department / Units
2. Leadership and Governance

1. Delegation of authority and operational autonomy to the department / Units- The College provides autonomy to Heads of Department in various prominent activities given below:-

Head of Department has the authority to take decision regarding academics as well as extra-curricular activities of their department like internal assessment exams, industrial tours, Short Term Training Program, requirement of consumable, non-consumable items, text books, journals & periodicals etc. Academic authority for the allocation of subjects, preparation and execution of academic time table. Financial authority to some extent within the provision of budget. Head of Department is member of selection committee for selection of faculty in department. Innovation in teaching learning process beyond syllabus activities. An Institute promotes the culture of participative management that enables all Head of Departments, Deans, teaching & supporting staff and students to give their advices, suggestions and participates in decision for the development of College. There is special College development committee is constituted as Maharashtra Public University Act 2016. Principal of the Institute frequently convene the meetings with Heads, academic deans, class teachers, faculties, supporting staff, students and parents. Meetings of all committees are regularly held for policy framing implementation strategy. 2. Leadership and Governance- The governance of the Institution is a mirror of an effective leadership in tune with the vision and mission of Institution. The Institution follows a democratic and participatory mode of governance with all stakeholders participating in academic, research and administration. The Governing Body delegates authority, to the Principal who in turns share it with the different levels of functionaries in the College. The Heads of Departments, section in-charges, Co-ordinators of IQAC Cell, the Conveners of various committees and cells along with the staff representatives on higher decision-making bodies play important roles in determining the Institutional policies and SOPs.

6.1.2 Does the Institution have a Management Information System (MIS)? Yes/No/Partial**: Yes**

The Institution/College have specialized Management Information System (MIS). It provides a solution for better management & better decision making capabilities. College Automation System in the form of MIS helps in controlling the working & functionality of the Institution. It also strengthens the bond between students, teachers, parents, management & the administrative staff O**rganization of data.**

It can help to collect, store and share the data with a great ease and speed, within an organization. Manual efforts on the other hand can be very tedious, erroneous, non retrievable and costly. The management of data for the current year is a typical task with manual working; a proper solution like MIS can make you access the data for even the past students.

1. **Streamlining the educational process:**

The manual way of working gives we total freedom and flexibility which results in a less protocol or standardized way of working. An IT solution helps in proper documentation and standardization of education process by setting up protocols for each and every process of institution. We document and manage much more information than the manual process. Accessing the documented information is again a very easy process.

Advantages

Smooth handling of admission records and applications is possible with proper software otherwise it may be the difficulties with manual process.

Fact based easy access to figures and data helps in making productive management decisions.

All the reports and communication with education boards can be done fast and error free without much of time and dependency. With manual work it is very much dependent process on the concerned person and care full handling is required.

Without a proper IT solution the interaction and information exchange with parents is a tedious and time consuming process. We reduce the frequency to cope with it but with a proper solution can be very transparent and quick in communicating with parents as there is no extra hard work required.

In manual processing the exchange of information within various departments of the institution is very difficult and time consuming. For example fine in library should be taken in fee section and the caution money in fee department should reflect in library.

Main Modules

Student Admission System
Receipts Management System
ID Card Management System
Scholarship Management System
Exam Seating Management System
Student Attendance System
Payroll Management System
Employee attendance system (Bio-Metric Attendance)
Financial Accounting System
Library Management System
Store Management System
Inward & Outward System
Hostel Management System
Time-Table Management System
Teacher Profile Management System

Correspondence management system (Email, SMS, Postage)

Online exam management system

Teachers feedback system

Placement Management System

With the help of this tool College management has a systematic and easy approach towards maintaining and updating the different aspects of the website. All the management aspects of the institution like the admission process, message broadcasting, and notice boards publishing are taken into account which not only saves resources but also provides efficiency in working.

6.2 Strategy Development and Deployment

6.2.1 Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

The Strategy Development and Deployment are as:

Curriculum Development

Development of course contents and its implementation for other employability attributes like Communication skill and soft skill. The course contents are developed, in consultation with Industry for the identified core areas like Software Testing, Remote Infrastructure Monitoring & Management, Information Security, Embedded System & IOT, Software development, VLSI, Automation Design. Contents of the courses are validated by other related Industries. □Planning of implementation of design courses are made with the help of interested College faculty, resource person from industry and professional trainers and □Assessment of trainees by internship, mock tests and placements

Teaching and Learning

The Institute fulfills statutory regulatory norms of AICTE and affiliated University regarding infrastructure facilities to fulfill the need of teaching learning process. Institute provides the infrastructural facilities of: advance ICT tools, amenities, research, innovation and development, curriculum enrichment, skill development and employment enhancement, books journals e-resources, digital library and other infrastructure to knowledge resource center, computer center with adequate computer requirements, language laboratories, virtual class room, seminar halls,   Computers and Software etc.

The Policy of institution in this respect is also reflected in mission, vision, objectives & goals.

Examination and Evaluation

There is existed a centralized internal examination and evaluation system. On line submission of internal assessment marks and external practical examination marks submission in University.

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

Research and Development

We have University approved research Lab in two subjects: 1. Computer Science & Engineering and 2. Electronics & Telecommunication Engineering. There are 16 research scholars are admitted in these programmes. The plan of this lab of research and development is to work on identified thrust areas. Expansion in four quadrants like Research and Development, technical activity, social, curricular and co-curricular activity in 360 degree. Appreciation /Awards/ Incentive for research and development should be given for deserves candidates.

Library, ICT and Physical Infrastructure / Instrumentation

The Central digital library (knowledge resource center) facilities are available, which provide books journals e-resources, digital library, ICT infrastructure including LCD projectors, Wi-Fi and high speed internet connectivity availability of NPTEL and other MOOC materials. High-speed, high bandwidth optical fiber lease line for internet facility is available with Wi-Fi facility, networking of computer (Intra-net). 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

Human Resource Management

The Institute has Planning to provide qualified & experience human resources and continual human resource development. Ensure high level of motivation and moral of faculty and staff with Sympathetic and Empathetic approach towards faculty and staff. There is Performance Based Appraisal System (PBAS) for staff. Technical skill training programme is arranged to Class IV employees. Career Advancement Schemes and promotional policy for employees. Exchange of faculty with foreigner institute. Induction Program for newly recruited faculty as per AICTE mandate and optimum utilization of human resources.

Industry Interaction / Collaboration

There are continuous industry interaction for effective operationalization of the curriculum, Institution's network and Industry interaction, research bodies and University as:

1. Institute-Industry interaction and networking to aware with Industry trends to mitigate gap of University curriculum and technology in Industry applications
2. Industry experts of leading Industry (Microsoft, CCIL) are on Governing body of the College
3. Industry domain knowledge experts are on panel of 'adjunct and resource persons of Industry'
4. Organizing their inviting lectures during the course of study on related topics physically or virtually guidance taken for academic projects as per University curriculum
5. Visits to Industry, data centers, laboratories to supplement application of theoretical knowledge
6. 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
7. Inviting scientist, researchers for training programme on the advanced curriculum topic
8. Joint publications of faculty with researchers/ scientists/experts
9. Inviting researchers/ scientists/experts to supplement, conduct of curriculum

Admission of Students

Admissions are conducted according to Admission Regularity Authority of Government of Maharashtra

6.2.2	Implementation of e-governance in areas of operations

Planning and Development

The planning is very necessary for academic, administrative and financial management. The use ICT in the process of planning the College events and activities are necessary. For fast and easy communications like notices, events, functions or any other things can do using communication technology like WhatsApp, email, video conferencing etc. E-governance is the integration of Information and Communication Technology in all the working processes of the College system. It aims to minimize the manual efforts and improve the communication, create transparent system, and to be cost and time effective with ICT tools. The College is having receipts Management System, ID Card Management System, Scholarship Management System, Exam Seating Management System, Student Attendance System, Payroll Management System, Employee attendance system Bio-Metric Attendance, Library Management System, Store Management System, Inward and Outward System, Hostel Management System, Time-Table Management System, Teacher Profile Management System, Correspondence management system, Online exam management system, Teachers feedback system, Examination, College and Placement Management System etc. All these are used for effective planning and development.

Administration

To achieve the target of minimum used Paper in College and other sections or cells like IQAC, committee members of it started using Google facilities like Google sheet, words, excel For data collection from Various Departments and submit the departmental progress report through e-system. Use of Google provided facilities is increased. The college has Biometric device to note the attendance of teaching and non-teaching staff. The college campus is equipped with high resolution CCTV Cameras installed at various places like classrooms, and other prominent places. To surveillance College activities on monitor by Principal, ICT has been introduced in the Administrative work. College staff uses Smartphone with inbuilt social app like Gmail, WhatsApp Group for to communication purpose.

Finance and Accounts

To provide immediate information, this section is E-governance enables to planning and budgeting of College and handles all financial business smoothly. It helps to improve new class of quality of services and to provide multichannel service delivery system. The College is also used the financial software like Tally for financial account purposes like daily cash collection, payment and receipt etc..The vision of e-governance is to transform service delivery through the use of IT and Multimedia. E-governance can be defined as delivery of government services and information to the public using electronic means. Such means of delivering information is often referred to as ICT. Use of ICTs in government facilitates an efficient, speedy and transparent process for disseminating information to the public and other agencies, for providing services, and for performing administrative activities.

Student Admission and Support

Student admissions for higher classes from Second year to final year are notices with e-system along with provision of admission form and list of required documents. To help in admission management process of College through mentor of each Department separately. E-governance requires several elements of good governance, such as transparency, accountability, participation, social integration, financial management reform and development. It includes a very broad range of services for almost all segments of society. This system helps to maintain the student information from entry to exit. The ICT or requisite software is used for student support like issuing Transfer Certificate, Bonafide certificates. Admission Forms, Issue of I Cards ,Library cards etc

Examination

The most common areas of e-governance applications are coverage of Examination system. College has well setup of e-governance of examination work. This help to declare the results of unit test and common test within three days. The purpose of implementing e-governance is to enhance good governance. Good governance is generally characterized by participation, transparency and accountability. The recent advances in communication technologies and the Internet provide opportunities to transform the relationship between College administration and students. Benefits of e-governance in an education sector The benefits of e-governance in an educational sector are improved efficiency, increase in transparency and accountability of educational administrative activities convenient and faster access to services, and lower costs for administrative Services. The multifaceted benefits of e-governance can be described as under these points: 1.Increase the efficiency of the various departments and reduces Duplication 2. Preparation of reports becomes easy and quicker. 3. Harassment of the students is reduced. 4. Easy online information and submission of forms and payment also becomes almost immediate. 5. The management, faculty

members, students and administrative staff get connected to the each other more easily leading to enhanced efficiency in delivering service by the way of faster dissemination of information that on a very low cost. 6. Equal opportunity to access to information is provided regardless of one's physical location and physical disability thus removing distance barriers. 7. Leads to significant reduction of transaction costs, time, space, and manpower.

6.3 Faculty Empowerment Strategies

6.3.1 Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Amol Karmarkar Swapnil Nehar Milind Anasane	Workshop on Koha Workshop on Koha Workshop on Koha	IIT Bombay IIT Bombay IIT Bombay	2000 2000 2000

6.3.2 Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	Dates (from-to)	No. of participants (Teaching staff)	No. of participants (Non-teaching staff)
2019	Seminar	Soft Skill	05/08/2019 10/08/2019	30	10
2019	Workshop	NPTEL	09 /09/2019 09/09/2019	25	16
2019	Workshop	Dead stock Register Handling	26/09/2019 26/09/2019	10	10
2019	Seminar	Title Selection of M.E. Project	30/09/2019 30/09/2019	15	--
2020	Seminar	AI Day	10/01/2020 10/01/2020	40	20

6.3.3 No. of Teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	Date and Duration (from – to)
COVID-19 Awareness Quiz	01	22/04/2020 to 22/04/2020
FDP on G-Suite and Allied tools in Education, Teaching, E-content Development	01	29/06/2020 to 04/07/2020
Webinar on Machine automation in Packaging	01	25/07/2020 to 25/07/2020

6.3.4 Faculty and Staff recruitment (no. for permanent/fulltime recruitment)

Teaching		Non-teaching	
Permanent	Fulltime	Permanent	Fulltime/temporary

6.3.5 Welfare schemes for

Teaching	Family Insurance
Non teaching	Family Insurance
Students	Scholarship and Insurance

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly
 (with in 500 words each)

Yes Institute has both internal and financial audit regularity. There are two types of institutional mechanism for audit. 1. Internal audit and 2. External audit

1. Internal Audit: Account officer and head of institution conducted auditing internally. Internal audit itself will be done by the Institute internally and

2. External audit: Accounts are audited every year by chartered accountant, where College appointed the charted accountant for external audit. The last statutory, External Audit was done for the financial year 2018-2019. All the financial transactions inclusive of receipts and payments are making available by the account Department of College for checking and auditing of accounts from Chartered Accountant. The CA produces the Audited statement report & utilization certificates to the Institution. This way account management system helps to the finance and account section of the College.

6.4.2 Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year (not covered in Criterion III)

Name of the non government funding agencies/ individuals	Funds/ Grants received in Rs.	Purpose
-	-	-

6.4.3 Total corpus fund generated

-

6.5 Internal Quality Assurance System

6.5.1 Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	University	Yes	IQAC

Administrative	Yes	IQAC	Yes	IQAC

6.5.2 Activities and support from the Parent – Teacher Association (at least three)

Activities

1) Parent meet

2) Student performance Report

3) Parent feedback on Teachers & Facilities

6.5.3 Development programmes for support staff (at least three)

1) Staff development Training

2) Cyber security awareness program

3) Induction training on Stock Book Handling

6.5.4 Post Accreditation initiative(s) (mention at least three)

1) Submission of AQAR every year

2) Academic & Administration Audit

3) Academic and other activities

4) Research centre for R & D

6.5.5

a. Submission of Data for AISHE portal   : (Yes/No)

Yes ✓

b. Participation in NIRF   : (Yes /No)

Yes ✓

c. ISO Certification   : (Yes /No)

No✓

d. NBA or any other quality audit   : (Yes /No)

Yes ✓

6.5.6 Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting activity	Duration (from-----to------)	Number of participants
2019	T-L Innovations	08/07/2019	08/07/2019 to 08/07/2019	50
2019	Soft Skills Training	05/08/2019	05/08/2019 to 05/10/2019	60
2019	Induction Training Programme for first year students	19/08/2019	19/08/2019 to 05/09/2019	65
2019	Monthly Progress Report of each Deptt.	05/08/19	05/07/2019 to 05/10/2019	50
2019	Accreditation Awareness	19/08/2019	19/08/2019 to 19/08/2019	25
2019	UBA Projects	09/09/2019	09/09/2019 to 06/04/2020	10
2019	Feedback from Stakeholders	10/10/2019	10/10/2019 to 25/01/2020	200

2020	Research Centre activities	06/01/2020	06/01/2020 to 30/04/2020	25
2020	Academic Audit	20/04/2020	20/04/2020 to 22/04/2020	40

CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period (from-to)	Participants	
		Female	Male
Savitribai Fule Jayanti	03 Jan 2020	20	2
Women's Day Celebration	8th March 2020	25	20

7.1.2 Environmental Consciousness and Sustainability/Alternate Energy initiatives such as: Percentage of power requirement of the College met by the renewable energy sources

Environmental Consciousness & Sustainability:-

The location of institute is in the centre 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.

Alternate Energy Initiatives:-

1. Solar grid tied photovoltaic power plant is established on the roof of COET Building & Workshop building which has capacity of 100 KWH. It generates average 42+* MWh energy per Year thus conventional electricity is conserved.
2. Bio gas for canteen to conserve non-renewable sources like petroleum fuel and electricity.
3. Use of natural lighting and air circulation in design of new structure like canteen, saves Electricity

The Semi-Transparent glass windows of class rooms facilitate maximal utilization of natural light.

7.1.3 Differently Abled (Divyangjan) friendliness

Items Facilities	Yes/No	No. of Beneficiaries
Physical facilities	Yes	100
Provision for lift	No	--
Ramp/ Rails	Yes	70
Braille Software/facilities	No	--
Rest Rooms	Yes	10
Scribes for examination	No	--
Special skill development for differently abled students	No	--
Any other similar facility	--	--

7.1.4 Inclusion and Situatedness

Enlist most important initiatives taken to address location advantages and disadvantages during the year. The location of institute is in the centre 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. SGB Amravati 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.

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date and duration of the initiative	Name of the initiative	Issues addressed	Number of participating students and staff
2019-20	O2	05		Villager's meet		10-20
2019-20	01	02		Cyber awareness		10-15

7.1.5 Human Values and Professional Ethics

Code of conduct (handbooks) for various stakeholders

Title	Date of Publication	Follow up (maximum 100 words each)
Information Brochure	**May 2019**	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
Students Academic Diary	**May 2019**	•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
Teacher's Diary	**May 2019**	Details of Institute's Vision, Mission, objectives. Goals, Long term Goal. Desired Outcomes of Education Key Outcomes of Education. Roles and Responsibilities. Code of Professional Ethics Personal Information Academic Calendar Expected key performance Area Know Your Subject Academic Time Table. Evaluation Work Schedule. Teaching Plan Attendance Record Internal Assessment Mentoring Report Performance based self-Appraisal scheme
Universal Human Values	**2019**	Included Mandatory by AICTE

7.1.6 Activities conducted for promotion of universal Values and Ethics

Activity	Duration (from-------to-------)	Number of participants
Tree Plantation	**15th August 2020**	**15**
Blood Donation Camp	**28th April 2020**	**30**
Distribution of Essential Food Grains to Needy Villagers at Kavitha Budruk, Amravati	**22th April 2020**	**50**
Distribution of Essential Food grains to needy Families at village Pimpalgaon Bainai, Amravati	**20th April 2020**	**70**

7.1.7 Initiatives taken by the institution to make the campus eco-friendly (at least five)

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) Use of natural lighting and air circulation in design of new structure like canteen.
4) Policy is framed to replace energy in efficient system by efficient system like LED lamps energy efficient equipment.

5) Use of renewable energy solar street lamp, bio gas for canteen to conserve non-renewable sources like petroleum fuel and electricity.

6) The glass windows of the class rooms facilitate the maximal utilization of natural light.

7) The traditional lighting systems are replaced with energy Efficient (Light Emitting Diode) LED lighting system.

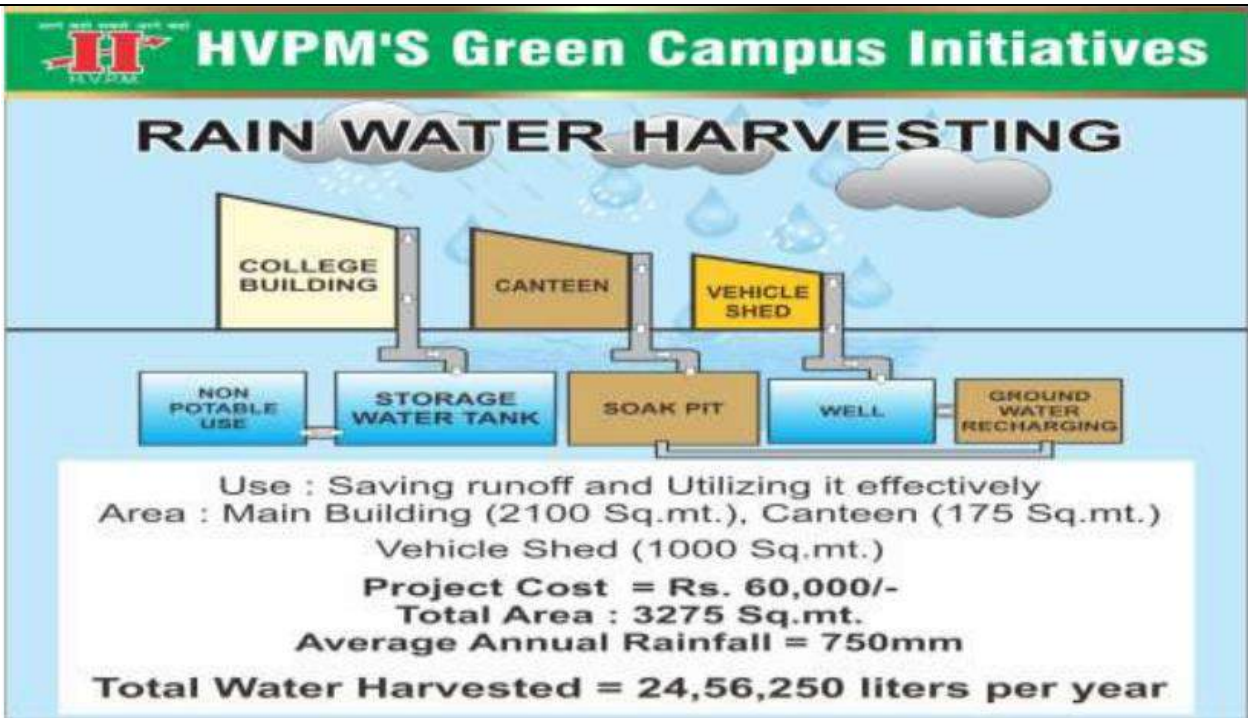Posters and Practice of Switching off the electrical equipment when not in use is being done.

1. **Use of renewable energy:-**

   Solar grid tied photovoltaic power plant is established on the roof of COET Building & Workshop building which has capacity of 100 KWH. It generates average 42+* MWh energy per Year thus conventional electricity is conserved.

2. **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.

RAIN WATER HARVESTING

COLLEGE BUILDING   CANTEEN   VEHICLE SHED

NON POTABLE USE   STORAGE WATER TANK   SOAK PIT   WELL   GROUND WATER RECHARGING

Use : Saving runoff and Utilizing it effectively
Area : Main Building (2100 Sq.mt.), Canteen (175 Sq.mt.)
Vehicle Shed (1000 Sq.mt.)
Project Cost = Rs. 60,000/-
Total Area : 3275 Sq.mt.
Average Annual Rainfall = 750mm
Total Water Harvested = 24,56,250 liters per year

3. 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**

BIO-DIGESTER (EKOBIN)
An eco-friendly waste management system

Use : Domestic kitchen & plastic waste disposal

Size : 2mt.X1.5mt.X2mt.

Process : Anaerobic Digestion for kitchen waste & compaction for plastic waste.

Capacity : Approx. for 50 houses

Bi-Product : Bio-Gas (3.5 cum/day)

Feed : Bio-degradables such as vegetables, fruit peels, leftover food, plastic waste like wrappers, carry bags in plastic compactors.

4. Tree Plantation

More than 50+ Tree plantation has been done during the year 2019-20 and is maintained every year in the Campus of HVPM College of Engineering.

5. LAPTOP Scheme:-

Tree plantation is regular activity under NSS Life Long Association through Plantation scheme. Saplings are planted every year during rainy season on Independence day, Teachers' day, Engineer's 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.

HVPM'S Green Campus Initiatives

LAPTOP
Life Long Association Through Plantation of Tree and Outreach Program

Tree plantation is done by students of the first year on every Independence Day. Student has to take care of the tree for entire 4 years of his college life. At the time of sendoff - Name plate of the student is fitted on the tree. 200 trees planted & grown every year

6. Blank Page Bank Scheme

HVPM'S Green Campus Initiatives

BLANK PAGES BANK

Under the NSS activity, students collect the blank pages from each class at the end of the session. In this year 10,000 blank pages were collected and reused to make note-books for the tribal students.

We have saved 2 matured trees.
2 Trees = 260 pounds of Oxygen per year
This equals to the Oxygen consumed by the family of 4 people.

7.2 Best Practices

Describe at least two institutional best practices:

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link.

http://hvpmcoet.in/wp-content/uploads/2021/08/hvpmcoet_best_practices_of_Institutions_2019_20_final.pdf

1. 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 colour 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

To involve Industry for training, internship and evaluation

To market the practice to user Industry

To arrange for placement drives

2. 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 get 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 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.

7.3 Institutional Distinctiveness
Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust
Provide the weblink of the institution in not more than 500 words

The H.V.P.M. 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 AICTE, DTE, and Maharashtra Government and belongs to a 105 years old trust which is having a mission of youth empowerment, social upliftment and the legendary work in field of Sports Engineering and Sports Technology. The college is given the responsibility by the All India Council for Technical Education (AICTE) to conduct orientation programme for or sports teacher of Technical Institution across country. Our students are having specialized training projects and internship in field of sports engineering and sports technology including sports data analysis and video analysis. On social front, the social relevant projects for community development are undertaken for the rural development using technological interventions that are successfully completed under National Service Scheme (NSS) and Unnat Bharat Abhiyan (UBA) Scheme.

OBJECTIVES
- To qualify the students for university and other examinations for making them eligible for degrees conferred by university
- To provide for research and for dissemination of knowledge through instructions, training and education
- To take appropriate measures for promoting innovations in teaching-learning process and inter-disciplinary studies and research
- To establish linkages with industries for the promotion of dissemination of knowledge of applied technology and for placement of students
- To pay attention to welfare of society in general
- To pay attention to overall development, discipline and values in students

GOALS
Technology for community development
To develop & provide appropriate Sports Engineering and Sports Technologies
To groom various departments and laboratories for research programs
To develop thrust areas activities like Waste management, Green campus, Water conservation
To develop "lifelong learning" activities
To achieve at least 50% placement of students

AMENITIES
Sustainable development in form of renewable energy
Green Ambience
24 hours of water and electric power supply
Backup power supply DG Generator
Surrounded by Sports complex having Running Track, Stadium, Playgrounds, and Swimming Pool
Boys and Girls Hostels
Pollution Free Campus

Website Link: http://hvpmcoet.in/about-hvpm-coet/

8. **Future Plans of action for next academic year (500 words)**

The Future plans of Action for next academic year 2020-21 are given below:

NAAC - The National Assessment and Accreditation Council

The Institute want to develop system for conscious, consistent and catalytic action to improve the academic and administrative performance of the institution with quality. The Institute prefer to prepare AQAR every year for understanding the best practices for quality enhancement

NBA- National Board of Accreditation

The Institute also look to go for NBA as this is a technical Institute. So we have to find the eligibility for application to NBA using Prequalifier.

Academic & Administrative Audit

We believe that, Academic and Administrative Audit are very essential for the excellence in technical Higher Education. Thus in order to have a quality oriented academic, there should be a strong administrative background. Academic Audit- Academic audit can be understood as a scientific and systematic method of reviewing the quality of academic process in the institution. It is related with the quality assurance and enhancing the quality of academic activities in Technical HEIs. Administrative Audit:- It can be defined as a process of evaluating the efficiency and effectiveness of the administrative procedure. It includes assessment of policies, strategies & functions of the various administrative Departments control of the overall administrative system etc.

Infrastructure – It is care taken that infrastructure for teaching-learning and instructions should be maintained as per AICTE norms and state Govt. rules.

T-L Innovative Practices- Covid-19 is bad but it has given opportunity to learn the technology and it has opened the door to used of technology and innovations

Incubation and Innovation Practices- Incubation is a process which tends to be activated whenever there is a need to support entrepreneurs in developing their own business. The concept of innovation is not yet being considered as innovation and entrepreneurship are two separate phenomena, albeit intertwined to a great extent. AIM is a flagship initiative to promote the culture of innovation and entrepreneurship in India. It is an umbrella structure that has been mandated to promote innovation and revolutionize the entrepreneurial ecosystem in the country.

NIRF Ranking Improvement- It is very essential to be best fit in NIRF for sustainable development of College. There is need to study and improve the important parameters like Teaching, Learning and Resources - Student Strength including Doctoral Students, Faculty-student ratio with emphasis on permanent faculty, Combined metric for Faculty with PhD and Experience, Financial Resources and their Utilisation. Research and Professional Practice-Combined metric for Publications, Combined metric for Quality of Publications, IPR and Patents: Published and Granted, Footprint of Projects and Professional Practice .Graduation Outcomes- Metric for University Examinations, Metric for Number of Ph.D. Students Graduated. Outreach and Inclusivity-Percentage of Students from Other States/Countries, Percentage of Women Diversity, Economically and Socially Challenged Students, Facilities for Physically Challenged Students, Perception Ranking.

Peer Perception-Academic Peers and Employers. Research and Development- To start-up research centre for academic research and development in the available subjects. UBA activities shall be carrying out for Village Development.

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Name: Dr. P. L Ramteke

Signature of the Coordinator, IQAC

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Name: Dr. A. B. Marathe

Signature of the Chairperson, IQAC

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