ANNUAL QUALITY ASSURANCE REPORT (AQAR)

Track ID-MHCOGN27401

Submitted to

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL (NAAC)
An Autonomous Institution of the University Grants Commission
P.O. Box No.1075, Agarbhavi, Bangalore-560072

By

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

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

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

The Annual Quality Assurance Report (AQAR)

Part – A

1. Details of the Institution

1.1 Name of the Institution

> H.V.P. Mandal's College of Engineering & Technology

1.2 Address Line 1

> H.V.P. M. Campus,

Address Line 2

> Hanuman Vyayam Nagar, Amravati

City/Town

> Amravati

State

> Maharashtra

Pin Code

> 444605

Institution e-mail address

> principal@hvpmcoet.in

Contact Nos.

> 0721-2563422

Name of the Head of the Institution:

> Dr. Anant Balkrishna Marathe

Tel. No. with STD Code:

> 0721-2563422

Mobile:

> 9850268814

Name of the IQAC Co-ordinator:

> Dr. U. A. Kshirsagar

Mobile:

> 942182826

IQAC e-mail address:

ujwalabelorkar@rediffmail.com

1.3 **NAAC Track ID** *(For ex. MHCOGN 18879)*

MHCOGN27401

1.4 **NAAC Executive Committee No. & Date:**
   (For Example EC/32/A&A/143 dated 3-5-2004.
   This EC no. is available in the right corner- bottom
   of your institution's Accreditation Certificate)

EC/(SC)/28/A&A/158.1 date: 30/10/2017

1.5 Website address:

www.hvpmcoet.in

Web-link of the AQAR:

http://hvpmcoet.in/wp-content/uploads/2018/08/MHCOGN27401-HVPM_College_of_Engineering_and_Technology__Amravati_-Maharashtra.pdf

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1st Cycle	B++	2.76	2017	5 years Up to 29-10-2022
2	2nd Cycle				
3	3rd Cycle				
4	4th Cycle				

1.7 Date of Establishment of IQAC: DD/MM/YYYY

30-07-2016

1.8 **AQAR for the year** *(for example 2010-11)*

2017-18

1.9 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC *((for example AQAR 2010-11submitted to NAAC on 12-10-2011)* ***Not Applicable***

   i.   AQAR _____ _____ (DD/MM/YYYY)
   ii. AQAR_____ _____ (DD/MM/YYYY)
   iii. AQAR_____ _____ (DD/MM/YYYY)
   iv. AQAR_____ _____ (DD/MM/YYYY)

1.10 Institutional Status

University   State [√] Central [   ] Deemed [   ] Private [   ]

Affiliated College   Yes [√] No [--]

Constituent College   Yes [--] No [--]

Autonomous college of UGC   Yes [--] No [--]

Regulatory Agency approved Institution Yes [√] [AICTE]   No [--]

(eg. AICTE, BCI, MCI, PCI, NCI)

Type of Institution   Co-education [√]   Men [   ]   Women [   ]

                      Urban [√]   Rural [   ]   Tribal [   ]

Financial Status   Grant-in-aid [   ]   UGC 2(f) [   ]   UGC 12B [   ]

                     Grant-in-aid + Self Financing [   ]   Totally Self-financing [√]

1.11 Type of Faculty/Programme

Arts [   ]   Science [   ]   Commerce [   ]   Law [   ]   PEI (Phys Edu) [   ]

TEI (Edu) [   ]   Engineering [√]   Health Science [   ]   Management [√]

Others   (Specify)   [--   ]

1.12 Name of the Affiliating University *(for the Colleges)*   [Sant Gadge Baba Amravati University, Amravati]

1.13 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc

     Autonomy by State/Central Govt. / University   [--]

     University with Potential for Excellence   [--]   UGC-CPE   [--]

DST Star Scheme	--	UGC-CE	--
UGC-Special Assistance Programme	--	DST-FIST	--
UGC-Innovative PG programmes	--	Any other (*Specify*)	--
UGC-COP Programmes	--		

2. IQAC Composition and Activities

2.1 No. of Teachers   8

2.2 No. of Administrative/Technical staff   2

2.3 No. of students   --

2.4 No. of Management representatives   1

2.5 No. of Alumni   1

2. 6 No. of any other stakeholder and

Community representatives   --

2.7 No. of Employers/ Industrialists   1

2.8 No. of other External Experts   --

2.9 Total No. of members   13

2.10 No. of IQAC meetings held   03

2.11 No. of meetings with various stakeholders: No.   04   Faculty   01

Non-Teaching Staff Students   01   Alumni   01   Others   01

2.12 Has IQAC received any funding from UGC during the year?   Yes [ ]   No [√]

If yes, mention the amount   --

2.13 Seminars and Conferences (only quality related)

(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC

Total Nos. | 03 | International | -- | National | √ | State | -- | Institution Level | --

(ii) Themes

- Workshop on High Performance Computing (Param Shavak) in association with C-DAC on 8-nov-17 to 11-nov-2017

- Faculty development program on "Foundation Program in ICT for Education" conducted by IIT Bombay at HVPM COET Remote Center (1406) from 8-March -2018 to 12-April-2018)

- One week induction/Refresher Program on "High Performance Computing Technology" from 2-July-2018 to 7-July-2018

2.14 Significant Activities and Contributions made by IQAC

- Research & Publications

- Successful submission for funding to AICTE, DST.

- Apply to affiliated University for the Establishment of Research Labs

2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC at the beginning of every year towards the quality Enhancement and outcome achieved by the end of the year.

Plan of Action	Achievements
Every Ph.D holders/Associate Professor must minimum two papers per academic year in SCOPUS/peer reviewed/UGC approved journals.	Twelve research papers published at international in journal publications done by faculties.
Mobilization of resources through DST / DSIR / UGC / AICTE / for minor – major projects.	Fourteen proposals are submitted for grant-in-aid to AICTE. One proposal submitted to DST for project grant.
To submit proposals for research lab	Proposals being submitted for approval of establishment of research lab in electronics and telecommunicates, computers science & engineering and chemistry to SGB Amravati University.
Beyond syllabus activities	Near about 7 CTA are running in the college for technical skill development for selected students. Responsibility of placement is also

	handled by CTA in charges.

Attach the Academic Calendar of the year as Annexure.

2.16 Whether the AQAR was placed in statutory body   Yes | √ | No | - |

Management | √ | Syndicate | -- | Any other body | -- |

Provide the details of the action taken

> The Management and IQAC members approved the Annual Quality Assurance Report (AQAR) after a detailed discussion. They also suggested strengthening the placement, industry institution interaction, and research & consultancy activities. The follow-ups were done periodically through the HODs meeting and other department level meetings.

Part – B

Criterion – I
1. Curricular Aspects

1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD	Nil	Nil	Nil	Nil
PG	03	Nil	03	Nil
UG	04	Nil	04	Nil
PG Diploma		Nil	Nil	Nil
Advanced Diploma		Nil	Nil	Nil
Diploma		Nil	Nil	Nil
Certificate		Nil	Nil	Nil
Others		Nil	Nil	Nil
Total	07	0	07	0

Interdisciplinary				
Innovative				

1.2 (i) Flexibility of the Curriculum: Core & Elective option
(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	07
Trimester	00
Annual	00

1.3 Feedback from stakeholders* Alumni ☒ Parents ☑ Employers ☒ Student ☑
(On all aspects)

Mode of feedback   :   Online ☒ Manual ☑ Co-operating schools (for PEI) ☒

*Please provide an analysis of the feedback in the Annexure

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.

No

1.5 Any new Department/Centre introduced during the year. If yes, give details.

No

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
45	36	02	04	03

2.2 No. of permanent faculty with Ph.D.

11

2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year

Asst. Professors		Associate Professors		Professors		Others		Total	
R	V	R	V	R	V	R	V	R	V
29	00	05	09	00	04	00	00	34	13

2.4 No. of Guest and Visiting faculty and Temporary faculty

00	15	34

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	02	11	01
Presented papers	14	02	00
Resource Persons	--	01	02

2.6 Innovative processes adopted by the institution in Teaching and Learning:

- Project based Learning
- Software Training to student(*Beyond syllabus training*)
- Use of e-learning resources like NPTEL, MOOC, IIT Virtual Lab, SwayamPrabha
- Training to teachers on Foundation program in ICT for Education
- Training to Teacher on Pedagogy for Online and blended Teaching –Learning Process

2.7 Total No. of actual teaching days during this academic year

223

2.8 Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions)

Yes

2.9 No. of faculty members involved in curriculum restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop

02	04	01

2.10 Average percentage of attendance of students

| 82% |

2.11 Course/Programme wise distribution of pass percentage:

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
First Year Department	127	00%	13.39%	11.02%	05.51%	29.92%
Computer Science and Engineering	238	16.38%	40.76%	10.92%	00%	68.07%
Information Technology	52	32.69%	19.23%	05.76%	00%	57.69%
Electronics and Telecommunication	253	00%	05.93%	3.32%	13.04%	42.29%
Mechanical Engineering	174	4.60%	36.21%	16.67%	13.79%	59.77%

2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes:

IQAC contribute contribute/Monitor/Evaluate the Teaching & Learning process by following way:

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

2.13 Initiatives undertaken towards faculty development

Faculty / Staff Development Programmes	Number of faculty benefitted
Refresher courses	00
UGC – Faculty Improvement Programme	21
HRD programmes	03
Orientation programmes	03
Faculty exchange programme	02
Staff training conducted by the university	00
Staff training conducted by other institutions	13
Summer / Winter schools, Workshops, etc.	11
Others	00

2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	34	08	Nil	Nil
Technical Staff	26	09	Nil	Nil

Criterion – III

3. Research, Consultancy and Extension

3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

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

- To become self-reliant autonomous technical institute with research and development in identified programs and 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
- Autonomy to the Principal Investigator
- Timely availability or release of resources
- Adequate Infrastructure and Human Resources

3.2   Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	03	02		03
Outlay in Rs. Lakhs	90	60		262

3.3   Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	--	--	--	--
Outlay in Rs. Lakhs	--	--	--	--

3.4   Details on research publications

	International	National	Others
Peer Review Journals	06	--	--
Non-Peer Review Journals	--	--	--
e-Journals	06	--	--
Conference proceedings	--	02	--

3.5 Details on Impact factor of publications:

Range [2-5]   Average [03]   h-index [--]   Nos. in SCOPUS [--]

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

Nature of the Project	Duration Year	Name of the funding Agency	Total grant sanctioned	Received
Major projects	2017-2018	INUP	60 Lacs	In terms of facilities and materials
		--	--	--
Minor Projects		--	--	--
Interdisciplinary Projects		--	--	--
Industry sponsored		--	--	--
Projects sponsored by the University/ College		--	--	--
Students research projects *(other than compulsory by the University)*		Institute	2 lac	Received
Any other(Specify)		AICTE-ISTE	3 lac	Yet to received
Total			**65 Lacs**	

3.7 No. of books published   i) With ISBN No. [1]   Chapters in Edited Books [--]

ii) Without ISBN No. [--]

3.8 No. of University Departments receiving funds from

UGC-SAP [--]   CAS [--]   DST-FIST [--]

DPE [--]   DBT Scheme/funds [--]

3.9 For colleges   Autonomy [--]   CPE [--]   DBT Star Scheme [--]

INSPIRE [--]   CE [--]   Any Other (specify) [0.5 Lac (UBA)]

3.10 Revenue generated through consultancy   [00]

3.11 No. of conferences

organized by the Institution

Level	International	National	State	University	College
Number	--	--	--	--	--
Sponsoring agencies	--	--	--	--	--

3.12 No. of faculty served as experts, chairpersons or resource persons   [08]

3.13 No. of collaborations   International [--]   National [--]   Any other [--]

3.14 No. of linkages created during this year   [--]

3.15 Total budget for research for current year in lakhs:

From Funding agency [--]   From Management of University/College [10 Lacs]

Total   [10 Lacs]

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	01
	Granted	--
International	Applied	--
	Granted	--
Commercialised	Applied	--
	Granted	--

3.17 No. of research awards/ recognitions received by faculty and research fellows
Of the institute in the year

Total	International	National	State	University	Dist	College
02	--	02	--	--	--	--

3.18 No. of faculty from the Institution
who are Ph. D. Guides   [02]
and students registered under them   [01]

3.19 No. of Ph.D. awarded by faculty from the Institution   [--]

3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)

JRF [--]   SRF [--]   Project Fellows [--]   Any other [01]

3.21 No. of students Participated in NSS events:

University level [150]   State level [---]

National level [--]   International level [--]

3.22 No. of students participated in NCC events:

University level [--]   State level [--]

National level [--]   International level [--]

3.23 No. of Awards won in NSS:

University level [--]   State level [--]

National level [--]   International level [--]

3.24 No. of Awards won in NCC:

University level [--]   State level [--]

National level [--]   International level [--]

3.25 No. of Extension activities organized

University forum [--]   College forum [--]

NCC [--]   NSS [25]   Any other [01]

3.26 Major Activities during the year in the sphere of extension activities and Institutional Social

Responsibility

- Hackathon
- Swachha Bharat Abhiyan
- Cyber Security Awareness Program
- Unnat Bharat Abhiyan 2.0

Criterion – IV
4. Infrastructure and Learning Resources

4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	11.64 (Acres) 47105.40 Sq. Mts.	-----	------	11.64 (Acres) 47105.40 Sq. Mts.
Class rooms	17	--		1426.3
Laboratories	40	--		3353.8
Seminar Halls	03	--		397.09
No. of important equipments purchased ($\geq$ 1-0 lakh) during the current year.	04			-----
Value of the equipment purchased during the year (Rs. in Lakhs)	11.98016	-----		-----
Others	------	------		-----

4.2 Computerization of administration and library

> **Computerization of library:-**
> Library and Information Centre is central library of HVPM's College of Engineering and Technology, Amravati.
> - The library is automated with **SOUL 2.0 Library Software**
> - Library subscribed NLIS-INFLIBNET, JGATE and DELNET e-resources. Under this programme, you will have access for the e-resources (25,000+ e-journals and 31,35,000+ e-books)
> - It is a Member of National Digital Library program.
> - Library Implemented BARCODE technology in the library along with barcode cards to faculty and students.
> - Has internet centre for faculty and students.
> - Internet Searching and printing

4.3 Library services:

particulars	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	22714	77549805.00	461	219486.00	23175	77769291.00
Reference	1361	305589.00	34	23158.00	1395	328747.00

Books						
e-Books	1081	00.00	734	00.00	1815	00.00
Journals	65	119025.00	65	136725.00	65	136725.00
e-Journals	03packeges	118050.00	02 packages	90120.00	02 packages	90120.00
Digital Database	02		02		02	
CD & Video	1074	00.00	1074	00.00	1074	00.00
Others (specify)	NPTEL		NPTEL		NPTEL	

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Depart-ments	Others
Existing	404	14	One 50 Mbps Connection And two 10 Mbps Connection	--	1	1	6	--
Added	--	--	Upgraded speed to 100 mbps and 20 mbps of exiting connections	--	--	--	--	--
Total	404	14	---	------	1	1	6	----

4.5 Computer, Internet access, training to teachers and students and any other programme for technology upgradation (Networking, e-Governance etc.)

- Workshop on High Performance computing (Param Shavak) in association with C-Dac on 8-nov-17 to 11-nov-2017
- Faculty development program on "Foundation Program in ICT for Education" conducted by IIT Bombay at HVPM COET remote Center(1406) from 8-March -2018 to 12-April-2018)
- One week induction/Refresher Program on "High Performance Computing Technology" from 2-July-2018 to 7-July-2018

4.6 Amount spent on maintenance in lakhs :

i) ICT

| 0.58 |

ii) Campus Infrastructure and facilities

| 2.3 |

iii) Equipments

| 1.74 |

iv) Furniture

| 0.074 |

v) Others

| 1.96 |

Total :

| 6.66 |

Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- Organization of inter and intra institutional workshops, seminars
- Arrangement for feedback response from students and parents

5.2 Efforts made by the institution for tracking the progression

- Student representative cell for students feedback
- Parents Meeting
- Mentor meeting
- Organizing workshops on recent trends
- Core Technical areas
- Summer internship programme summer / winter
- Alumni Meet

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
820	121	NIL	NIL

(b) No. of students outside the state

| 01 |

(c) No. of international students

| NIL |

UG

	No	%			No	%
Men	420	51.22	Women		400	48.78

PG

	No	%			No	%
Men	49	40.50	Women		72	59.50

Last Year(2016-17)						This Year(2017-18)					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
204	127	08	529	01	869	169	111	12	464	00	756

Demand ratio --   Dropout 0.06 %

5.4 Details of student support mechanism for coaching for competitive examinations (If any)

Gate forum

No. of students beneficiaries | 10 |

5.5 No. of students qualified in these examinations

NET | -- | SET/SLET | -- | GATE | -- | CAT | -- |

IAS/IPS etc | -- | State PSC | -- | UPSC | -- | Others | -- |

5.6 Details of student counselling and career guidance

- Mentoring for student counselling
- CTA(core technical area) guidance
- English communication and aptitude training programme
- Induction Programme

No. of students benefitted | 820 |

5.7 Details of campus placement

On campus			Off Campus
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
09	230	26	16

5.8 Details of gender sensitization programmes

> • Women Development Cell organizes several programmes to enhance the confidence level of girl students for their empowerment in the society.
>
> • International Women's Day was celebrated which is an opportunity to appreciate the remarkable contribution of women to our society.
>
> • Personal and academic related problems of women are counselled and solved.

5.9 Students Activities

5.9.1   No. of students participated in Sports, Games and other events

State/ University level [03]   National level [00]   International level [00]

No. of students participated in cultural events

State/ University level [00]   National level [00]   International level [00]

5.9.2   No. of medals /awards won by students in Sports, Games and other events

Sports: State/ University level [03]   National level [02]   International level [00]

Cultural: State/ University level [00]   National level [00]   International level [00]

5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution	16	1.93 lac
Financial support from government	772	330.53 lac
Financial support from other sources	12	3.45 lac
Number of students who received International/ National recognitions	00	00.00

5.11   Student organised / initiatives

Fairs   : State/ University level [00]   National level [00]   International level [00]

Exhibition: State/ University level [00]   National level [00]   International level [01]

5.12 No. of social initiatives undertaken by the students

06

5.13 Major grievances of students (if any) redressed: --Nil--

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

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.

6.2 Does the Institution has a management Information System

No

6.3 Quality improvement strategies adopted by the institution for each of the following:

6.3.1 Curriculum Development

Yes, the Process of Curriculum Development is as:

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

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

Course Planning
- Planning of implementation of courses design with the help of interested college
- faculty, resource person from industry and professional trainers
- Assessment of trainees by internship, mock placement tests

6.3.2 Teaching and Learning

- To fulfill statutory regulatory norms and regulation regarding infrastructure.
- To fulfill requirement of additional infrastructure as per university curriculum and syllabus.
- To provide advance ICT infrastructure.
- To provide amenities infrastructure.
- To provide infrastructure for research, innovation and development.
- To provide infrastructure for curriculum enrichment, skill development and employment enhancement.
- To provide books journals e-resources, digital library and other infrastructure to knowledge resource center.
- To develop computer center with adequate computer requirements, language Laboratories, virtual class room, seminar halls.
- Policy of institution in this respect is also reflected in mission, vision, objective & goal of institution.
- Computers and Software

6.3.3 Examination and Evaluation

- IQAC cell monitoring the centralized internal examination and evaluation.
- On line submission of internal assessment marks and external practical examination marks.
- Evaluation of the student for the subjects of environmental science. Question paper is given by college and evaluation is done as well.

Evaluation Reforms done by Institute on its own:
- 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.
- 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.

6.3.4 Research and Development

- To become self-reliant autonomous technical institute with research and development in identified programs and 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

6.3.5 Library, ICT and physical infrastructure / instrumentation

Library provides books, journals, e-journals, e-resources, digital library and other infrastructure to users.

- The library is automated with **SOUL 2.0 Library Software**
- Library subscribed NLIS-INFLIBNET, JGATE and DELNET e-resources. Under this programme, you will have access for the e-resources (25,000+ e-journals and 31,35,000+ e-books)

- It is a Member of National Digital Library program.

- Library Implemented BARCDING technology in the library along with cards to faculty and students.

- It has internet center for students of the University.

6.3.6 Human Resource Management

- Planning & providing qualified & experience human resources and continual human resource development
- Ensure high level of motivation and moral of faculty and staff
- Sympathetic and Empathetic approach towards faculty and staff
- Performance Based Appraisal System (PBAS)
- Technical skill training to Class IV employees
- Career Advancement Schemes and promotional policy
- Exchange of faculty with foreigner institute
- Induction Program for newly recruited faculty
- Optimum Utilization of Human Resource

6.3.7 Faculty and Staff recruitment

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

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

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

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

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

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

6.3.8 Industry Interaction / Collaboration

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

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

6.3.9 Admission of Students

Admissions are conducted according to Admission Regularity Authority

6.4 Welfare schemes for

Teaching	Yes
Non teaching	Yes
Students	Yes

6.5 Total corpus fund generated

No

6.6 Whether annual financial audit has been done

Yes

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes		Yes	
Administrative	Yes		Yes	

6.8 Does the University/ Autonomous College declares results within 30 days?

For UG Programmes   Yes   √   No   --

For PG Programmes   Yes   √   No   --

6.9 What efforts are made by the University/ Autonomous College for Examination Reforms?

Semester I, II III and V examination conducted at institute level as a home Exam as per SGBAU guideline

6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?

Not Applicable

6.11 Activities and support from the Alumni Association

Activities and support from the Alumni Association are as follows

- Alumni expert guidance to students
- Alumni expert seminars are arranged on recent trends
- Alumni Feedback is taken to improve training and placement activities, to generate awareness related to recent trends.
- Institute has portal through which current students can communicate with alumni
- Alumni association takes responses from alumni time to time through emails or telephonic talk.

6.12 Activities and support from the Parent – Teacher Association

Yes

6.13 Development programmes for support staff

Yes

6.14 Initiatives taken by the institution to make the campus eco-friendly

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.

The following green audit steps are undertaken.
- Energy audit of campus and institutes by professional energy auditing agencies. The MNRE, Government of India has sanctioned funds for the same.
- Water audit
- Study of possibility of implementation renewable energy sources to substitute
- Conventional non-renewable sources
- Audit of solid, liquid, gases waste
- Study of implementation of waste management system

Criterion – VII

7. Innovations and Best Practices

7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

- Environment Consciousness

- Institute conduct a Green Audit of its campus and facilities

- Initiatives are taken by the college to make campus Eco-Friendly Use of renewable energy, Water Harvesting: Rain water collection, Efforts for Carbon Neutrality, Hazardous Waste Management

7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

Action taken Report (ATR):
- Workshops have been conducted for Staff and Faculty development.

- Student and Staff welfare schemes continue.

- Counselling sessions are available.

- Addition of more CTAs

- Conduction of Social responsibility awareness programme

- Committee have been formed for the awareness of publication of research papers.

7.3 Give two Best Practices of the institution *(please see the format in the NAAC Self-study Manuals)*

1. Skills enhancement program for employment ready graduates
2. Innovative projects for inculcating the spirit of research & development

Provide the details in annexure (annexure need to be numbered as i, ii,iii)

7.4 Contribution to environmental awareness / protection

The location of institute is in the center of city. Besides having infrastructure as per the necessity for an educational campus, the institute puts in conscious efforts to enhance and nurture the eco-friendly environment on the campus. The campus consists of large number of outdoor, play grounds and open spaces. Faculty and Students take up projects to support the maintenance of healthy environment. The Institute authorities are very keen on making the campus eco-friendly by adopting Energy conservation practices, effective waste management at source, reuse of Blank pages, use of renewable energy, rain water harvesting and grey water for Plantation inside the campus, making the campus clean, green and healthy. Monitoring and upkeep of the green environment on the campus is done by the Maintenance department.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.

7.5 Whether environmental audit was conducted?   Yes

7.6 Any other relevant information the institution wishes to add. (for example SWOT Analysis)

STRENGTHS
- Well qualified, motivated and competent blend of high experience and young dynamic faculty.
- Effective teaching-learning process with special emphasis on students' centric learning with advanced education technology.
- Emphasis on innovative practices, thrust area activities.
- Systematically developed strong Industry-Institute Interaction.
- Employability enhancement programme in core technical areas in association with industry.

WEAKNESSESS
- Many students come from poor socio-economic and rural background; have low academic background, weak communication skills and presentation skills.

OPPORTUNITIES
- More scope to implement modern educational technology in teaching learning process.
- To develop more number of domain specific knowledge and skills based employability enhancement programme.
- Generate more opportunities for self-employment & placement for students.

CHALLENGES
- Quality of students at entry level.

8. **Plans of institution for next year**

- To implement strategies related to improve admissions with quality students.
- Infrastructure development & beautification of campus.
- Organization of career counselling& skill development program.
- Establishment of Research centre.

--Sd--   *--Sd--*

Name Dr. U. A. Kshirsagar   **Name: Dr. A. B. Marathe**

Signature of the Coordinator, IQAC   *Signature of the Chairperson, IQAC*

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