



SELF STUDY REPORT

FOR

1st CYCLE OF ACCREDITATION

**GOVERNMENT COLLEGE OF
ENGINEERING,AMRAVATI**

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Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

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1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Government College of Engineering, Amravati is an Autonomous Institute of Government of Maharashtra, affiliated to Sant Gadge Baba Amravati University, Amravati, established in the year 1964. The institute is spread over a beautiful campus of 105 acres. The Institute is conferred with autonomous status by University Grants Commission in 2006 and participated in Technical Education Quality Improvement Program (TEQIP) phase I and II. The Institute offers seven UG and eight PG programs in different disciplines and has research laboratory recognition for six Ph.D. programs. The well-equipped laboratories, library and computing facility with 1 GBPS internet, qualified faculty, meritorious students and highly placed alumni are the strengths of this Institute.

The Autonomy created self-confidence, brought clarity of vision and paved the way for reform of curriculum, examination & the evaluation system. Most of the programs have been accredited by National Board of Accreditation (NBA) two to three times since 2008. Recently, two UG programs (Civil and Mechanical) are accredited for three years upto 2021. Further, the expert committee visit for three PG programs (Structural, Thermal and Production) is awaited and Self Assessment Report (SAR) for B.Tech. (Electrical) is uploaded.

The software giant, Tata Consultancy Services, Pune has conferred the prestigious 'Premium Institute' status on the institute and is one of the few engineering institutes in the state to be honoured.

Based on the performance of students in the countrywide comprehensive assessment 'Computer Adaptive' test 'AMCAT' to scientifically assess the 'Employability of Graduates' which is conducted by Aspiring Minds Assessment Pvt Ltd, Gurgaon, the institute is consistently being conferred with the 'National Employability Award' for being amongst the 'Top 10%' of the institutes that excelled in Maharashtra for the consecutive five years from 2015 to 2019.

The institute has consistently ranked among the 'Top 50' technological institutes during 2014-2019 in the annual ranking survey of 'Best Professional Colleges of India' conducted by the 'Outlook Magazine'. The ranking positions from 2014 to 2019 have been, respectively, 43rd, 42nd, 37th, 28th, 31st and 33rd.

Vision

Towards Global Technological Excellence

Mission

- Creating Human Resource of global competence
- Providing Excellent Academic and Research Environment
- Striving for Development through Technology Transfer
- Inculcating the attitude of entrepreneurship

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

- Meritorius input of students
- Experienced and qualified faculty
- Strong association of existing students with the alumni
- Ample availability of Land for infrastructure development
- Enhanced performance and participation in extra and co-curricular activity

Institutional Weakness

- Less faculty at higher positions
- Lack of research activities/ collaboration with industries.
- Transfer of groomed faculty to other institutes
- No separate T&P infrastructure
- Lack of skilled supporting staff leading to poor maintenance of facilities

Institutional Opportunity

- Funding for research
- Interdisciplinary growth across departments
- Establishing Centre of excellence
- Developing concept of virtual laboratories through simulation in place of expensive laboratory equipment.
- Customized training to students as per their need and industry demands
- Increase ranking amongst other technical institutions

Institutional Challenge

- Saturation of Engineering education market
- Less scholar admissions at PG and Research Level
- Inability to recruit faculty
- Other countries attracting more Indian students for their higher education system
- Non availability of expertise in emerging areas

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

Autonomy has given wide scope not only to design own curriculum but also to update it based on the idea of usefulness to society and the employability of the learner. It enabled to adopt own teaching and evaluation methods as per the requirements of particular academic program.

Flexibility in deciding curriculum structure made it possible to introduce professional core electives in

emerging areas and also the open electives across the disciplines to support the Choice Based Credit System. The students undergo industrial training in the summer and winter vacation. Also, they are encouraged for optional industry internship in the final semester of the program. This initiative proved to be beneficial for students in terms of industrial exposure and employment opportunities.

The curricula are framed based on the guidelines of AICTE and UGC and as per the recommendations by International Professional bodies, viz., IEEE for Electrical and Electronics, ASME for Mechanical Engineering, ASCE for Civil Engineering, CSAB for Computer Science and Engineering and IT department.

The curriculum also offers general proficiency courses for the overall development of students. The major revisions are carried out every four years and minor revisions are taken up as and when required with due process of approval by Academic Council. The care is taken to frame the curriculum in tune with vision, mission of the Institute with participation from all the stakeholders.

The regular feedback from the students and other stakeholders for curriculum is obtained along with course-wise and teacher-wise feedback from students at the end of each semester. The suggested points serve to improve the curriculum, laboratory facilities, infrastructure etc. The academic audits conducted by external experts also help to adhere to best practices and norms.

Teaching-learning and Evaluation

The meritorious students are admitted through the centralized admission process of Government of Maharashtra and all seats are filled at state level. The first year students undergo a well planned orientation program to help them adjust with the new environment, to make them aware of the institutional policies, processes, practices, culture and values, help them build bonds with other students and faculty members, and expose them to a sense of larger purpose and self exploration.

The well planned academic calendar, teaching and evaluation plan is adhered strictly each semester. The progress of curriculum is monitored through the class representatives meeting and feedback collected at least two times in a semester. The students have a chance to appear and clear the examination in the special summer term examination for any course of either odd or even semester, if he/she fails.

Management Information System (MIS) is used for registration of students, all examinations marks entry and supplementary processes such as, online payment for examination, all internal and end semester examinations, tabulations, result declaration etc. The continuous evaluation of the students in a theory course is done through two class tests of 15 marks each (from July 2019 onwards, replaced by one Mid Semester Examination of 30 marks), Teachers Assessment of 10 marks followed by End semester Examination of 60 marks. The students are allowed to scrutinize their answer books.

The expert lectures by personnel from reputed academic institutes and industry are organized to achieve the outcomes. The proper blend of self study courses along with a choice to take up courses through MOOCS, SWAYAM, etc. are encouraged.

The well qualified and dedicated teachers are the strength of this Institute. The faculty development programmes are organized for enriching teaching-learning process. The faculty is deputed to participate in training programmes / workshops / seminars / conferences / FDPs to update knowledge and develop professional skills and also to upgrade their educational qualifications.

The academic audit is carried out by external experts from renowned Institutes each year by all the Departments to evaluate curricula, students performance, quality of question papers, assessment, evaluation, laboratory work faculty performance and academic facilities.

Research, Innovations and Extension

The Institute is a recognized center for Quality Improvement Programme (QIP) and National Doctoral Fellowship (NDF) schemes of AICTE in Civil, Mechanical and Electrical disciplines. Also, the Institute offers six Ph.D. programs as the recognized research center of SGBAU Amravati University in Civil, Mechanical, Electrical, Electronics, Computer disciplines and Chemistry. The scholars admitted in the above categories along with the students admitted in the eight PG programs are engaged in the research work. These scholars and students are supported with stipend as per the rules of AICTE. Also, the students and faculty is supported with reimbursement of expenses for publications, attending conferences, etc. The quality of research can be judged through patents and publications to the credit of the Institute. The faculty also contribute in the form of members of various academic bodies and committees at University and national level.

The students at UG level also participate in the various competitive events at national level like Robotics, SAE BAJA, TIFAN, etc where they actually design and fabricate a complete system, while working in a team. Such events boost their moral, technical, behavioural and communication skills.

The MoUs are signed with industries and other academic institutions to develop the skills of students as well as faculty. The students are allowed to undergo industry internships by the industries.

The NSS unit of college conducts social outreach programs which includes organization of awareness programs for environment, blood donation camps, tree plantation, etc.

Infrastructure and Learning Resources

The Institute is situated on a sprawling 105 Acre of campus. The Administrative and Department buildings have built up space as per the requirements of AICTE in the form of class rooms, laboratories, seminar halls, staff rooms and departmental library. There are four boys hostels with 519 capacity and another two hostels accommodating 403 girls along with mess facilities. All the laboratories are well equipped with sufficient number of required experimental setups. Number of modern equipments/ machines and high end softwares are procured by each of the Departments. The sufficient number of class rooms and laboratories are equipped with internet facility, LCD projectors and digital boards. A very strong computing facility with high end softwares and Wi Fi internet facility of 1 GBPS is available throughout the campus.

The separate building for central library houses a large collection of textbooks, journals (hard copy and soft copy) and magazines. There is e-class room in the central library with a seating capacity of 30, where digital library facility is available for the students and faculty.

The construction of new buildings and major maintenance are carried out by Public Works Department of Government of Maharashtra. In addition to this, the Institute has its own Building and Works Committee that takes decisions on infrastructure developments, electrical installations and budgetary provisions thereof.

Student Support and Progression

The goodwill and image of the Institute attracts meritorious students from all over the State. The large numbers of students are benefited by scholarships and freeships. The Institute provides career guidance, personal counselling and conducts skill development, sports and cultural programs for the benefit of students. Also, the students are encouraged to participate in sports and cultural events at regional and national level outside the Institute.

There are number of students clubs with different themes that provide platform to display their all round talent and skills. The students do participate in the technical competitive events at national level like Robotics, SAE BAJA, TIFAN, etc. where they actually design and fabricate a complete system, while working in a team. Such events boost their moral, technical, behavioural and communication skills.

All grievances of students are tackled timely through different committees meant for the purpose. The students involvement and representation is sought in many committees like students council, gymkhana, annual gathering and sports events 'Zenith', 'Kalpana Chawala Trophy', technical festival 'Prajawalan', training and placement, etc.

The strong alumni base is the strength of the Institute that helps needy students, provides placement and career counselling and performs various activities throughout the year.

Governance, Leadership and Management

The institute became autonomous in July 2006 and first Board of Governance (BoG) came into effect that is vested with powers to frame the policies for overall development, administration, finance and academics. The BoG is supported with other statutory bodies as defined by UGC for autonomous institutes. These bodies include Academic Council (Senate), Finance Committee (FC), Building Works Committee (BWC), Academic Program Evaluation Committee (APEC), Subject Boards (BoS) and Department Faculty Board (DFB).

This Institute practices participative management at various levels for which various Deans are nominated and other supportive committees are formed. The Institute has decided the strategic goals in accordance with the perspective with regard to Vision, Mission, quality policy and core values and efforts are taken to implement the same.

The social & family security and support for upliftment of the faculty and staff is provided with several schemes and facilities as per the rules and regulations of State Government. The system of appraisal is quite transparent and the gradation received by a faculty/staff forms a mandatory criterion while awarding promotion under the Career Advancement Scheme (CAS) or time scale promotion.

Being a Government Institute, there is transparent system of financial audit as per the norms and regulations. After conferment of autonomy, the fee of the students is retained with Institute and Salary Grant is given by the State Government. The departments, deans and various offices submit requisition of funds every year based on which the financial budget is prepared and discussed by the finance committee that is approved by Board of Governance (BoG).

Prior to formation of Internal Quality Assurance Cell as per the guideline of NAAC, the separate Dean (Quality Assurance) was nominated since the institute became autonomous in 2006. The quality assurance initiatives

that are addressed include:

- Accreditation by National Board of Accreditation (NBA)
- Academic Audit
- Evaluation of ESE question papers
- Curriculum Completion Monitoring
- Students Feedback (Course wise/ Faculty wise)
- Students Feedback (Systems) (infrastructure, support facilities, library, amenities, etc.)
- Introduction of Outcome Based Education
- Facilitation of training programs for faculty
- Students training
- Upgradation of curriculum

Institutional Values and Best Practices

The engineers are vested with economic and social responsibility to create the products and processes for overall upliftment of society at large. This Institute attempts to play its role to develop students with sense of this responsibility towards upkeep of environment, amicable spending of natural resources by employing conservation of energy, waste management and green initiatives. The professional ethics and moral values are imbibed through some of the courses as a part of the curriculum, tackling the societal problems through projects at final year UG level or dissertation work at PG level.

The Institute has two girls hostel with the capacity of almost 400 students, so that the maximum numbers of girls are provided with a safe and secure environment in the institute. They are encouraged to participate along with boys in each of the events and programs organized by the Institute or outside. Every department in the institute has the separate washrooms for the girls, which are hygienic and well maintained. The Women's Grievance Committee is formed as per the guide lines that tackle the problems faced by students and faculty. Women's cell regularly organize training of self-defence, counselling sessions, workshops, career guidance programs, mental health awareness programs, guest lectures, etc. for girls.

The institute celebrates birth anniversaries of the great Indian personalities as per the resolution of Government of Maharashtra. On the occasion of Anti Terrorist Day (21st May), Sadbhavana Divas (20th August), National Unity Day (31st October and 19th November), the oath of respective day is taken by students, faculty and staff. On 26th November, the preamble to the Constitution of India is read and the oath is taken to follow the constitution of India and work for the unity.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	GOVERNMENT COLLEGE OF ENGINEERING,AMRAVATI
Address	Kathora Naka, V. M. V. Road, Amravati
City	Amravati
State	Maharashtra
Pin	444604
Website	www.gcoea.ac.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	R.P. Borkar	0721-2531930	9890631965	0721-2531931	principal@gcoea.ac.in
Professor	S D Londhe	0721-	7030797299	0721-	sdlondhe@gmail.com

Status of the Institution	
Institution Status	Government

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	No

Establishment Details	
Date of Establishment, Prior to the Grant of 'Autonomy'	01-01-1964

Date of grant of 'Autonomy' to the College by UGC		29-03-2006		
University to which the college is affiliated				
State	University name	Document		
Maharashtra	Sant Gadge Baba Amravati University	View Document		
Details of UGC recognition				
Under Section	Date	View Document		
2f of UGC	24-09-2015	View Document		
12B of UGC	24-09-2015	View Document		
Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)				
Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	View Document	29-04-2019	12	

Recognitions	
Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	No

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	Kathora Naka, V. M. V. Road, Amravati	Urban	105	40025

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BTech,Civil Engineering	48	H.S.C.	English	60	60
UG	BTech,Mechanical Engineering	48	H.S.C.	English	60	60
UG	BTech,Electrical Engineering	48	H.S.C.	English	60	60
UG	BTech,Electronics And Telecommunication Engineering	48	H.S.C.	English	60	60
UG	BTech,Computer Science And Engineering	48	H.S.C.	English	60	60
UG	BTech,Information Technology	48	H.S.C.	English	60	60
UG	BTech,Instrumentation Engineering	48	H.S.C.	English	30	30
PG	Mtech,Civil Engineering	36	B.E.B.TECH	English	13	0
PG	Mtech,Civil Engineering	36	B.E.B.TECH	English	18	0
PG	Mtech,Civil Engineering	24	B.E.B.TECH	English	18	7
PG	Mtech,Civil Engineering	24	B.E.B.TECH	English	13	8
PG	Mtech,Civil Engineering	24	B.E.B.TECH	English	18	9
PG	Mtech,Mech	24	B.E.B.TECH	English	18	9

	anical Engineering					
PG	Mtech,Mechanical Engineering	36	B.E.B.TECH	English	9	0
PG	Mtech,Mechanical Engineering	24	B.E.B.TECH	English	18	7
PG	Mtech,Electrical Engineering	24	B.E.B.TECH	English	18	9
PG	Mtech,Electrical Engineering	36	B.E.B.TECH	English	7	0
PG	Mtech,Electronics And Telecommunication Engineering	18	B.E.B.TECH	English	18	8
PG	Mtech,Electronics And Telecommunication Engineering	36	B.E.B.TECH	English	7	0
PG	Mtech,Computer Science And Engineering	24	B.E.B.TECH	English	18	10
Doctoral (Ph.D)	PhD or DPhil,Civil Engineering	36	M.E.M.TECH	English	30	22
Doctoral (Ph.D)	PhD or DPhil,Mechanical Engineering	36	M.E.M.TECH	English	25	23
Doctoral (Ph.D)	PhD or DPhil,Electrical Engineering	36	M.E.M.TECH	English	20	12
Doctoral (Ph.D)	PhD or DPhil,Electronics And Telecommunication	36	M.E.M.TECH	English	12	2

	Engineering					
Doctoral (Ph.D)	PhD or DPhil, Computer Science And Engineering	36	M.E.M.TECH	English	15	8
Doctoral (Ph.D)	PhD or DPhil, Science And Humanities	36	MPHIL PAT	English	5	0

Position Details of Faculty & Staff in the College

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	18				38				83			
Recruited	2	0	0	2	7	1	0	8	52	25	0	77
Yet to Recruit	16				30				6			
Sanctioned by the Management/Society or Other Authorized Bodies	0				0				0			
Recruited	0	0	0	0	0	0	0	0	0	0	0	0
Yet to Recruit	0				0				0			

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				113
Recruited	83	18	0	101
Yet to Recruit				12
Sanctioned by the Management/Society or Other Authorized Bodies				0
Recruited	0	0	0	0
Yet to Recruit				0

Technical Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				20
Recruited	14	0	0	14
Yet to Recruit				6
Sanctioned by the Management/Society or Other Authorized Bodies				0
Recruited	0	0	0	0
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	1	0	0	5	1	0	16	2	0	25
M.Phil.	0	0	0	0	0	0	1	0	0	1
PG	1	0	0	2	0	0	30	21	0	54

Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	4	1	0	5

Part Time Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	25	37	0	62

Details of Visting/Guest Faculties				
Number of Visiting/Guest Faculty engaged with the college?	Male	Female	Others	Total
		0	0	0

Provide the Following Details of Students Enrolled in the College During the Current Academic Year

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
Doctoral (Ph.D)	Male	18	1	0	0	19
	Female	5	0	0	0	5
	Others	0	0	0	0	0
UG	Male	1099	15	0	0	1114
	Female	689	3	0	0	692
	Others	0	0	0	0	0
PG	Male	101	0	0	0	101
	Female	101	0	0	0	101
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years					
Programme		Year 1	Year 2	Year 3	Year 4
SC	Male	44	45	44	37
	Female	31	32	31	31
	Others	0	0	0	0
ST	Male	14	17	22	20
	Female	14	17	14	13
	Others	0	0	0	0
OBC	Male	138	139	140	152
	Female	81	81	80	70
	Others	0	0	0	0
General	Male	79	100	87	98
	Female	43	46	42	49
	Others	0	0	0	0
Others	Male	43	40	49	44
	Female	21	20	21	18
	Others	0	0	0	0
Total		508	537	530	532

2.3 EVALUATIVE REPORT OF THE DEPARTMENTS

Department Name	Upload Report
Civil Engineering	View Document
Computer Science And Engineering	View Document
Electrical Engineering	View Document
Electronics And Telecommunication Engineering	View Document
Information Technology	View Document
Instrumentation Engineering	View Document
Mechanical Engineering	View Document
Science And Humanities	View Document

3. Extended Profile

3.1 Program

Number of programs offered year-wise for last five years

2018-19	2017-18	2016-17	2015-16	2014-15
15	15	15	15	15
File Description			Document	
Institutional Data in Prescribed Format			View Document	

3.2 Students

Number of students year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
2008	2034	2052	2029	2097
File Description			Document	
Institutional Data in Prescribed Format			View Document	

Number of outgoing / final year students year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
564	565	568	588	589
File Description			Document	
Institutional Data in Prescribed Format			View Document	

Number of students appeared in the examination conducted by the Institution, year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
600	582	572	597	615
File Description			Document	
Institutional Data in Prescribed Format			View Document	

Number of revaluation applications year-wise during the last 5 years

2018-19	2017-18	2016-17	2015-16	2014-15
1088	1156	1132	1106	1126

3.3 Teachers**Number of courses in all programs year-wise during the last five years**

2018-19	2017-18	2016-17	2015-16	2014-15
608	608	608	608	608

File Description	Document
Institutional Data in Prescribed Format	View Document

Number of full time teachers year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
81	82	82	91	81

File Description	Document
Institutional Data in Prescribed Format	View Document

Number of sanctioned posts year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
139	139	139	139	139

File Description	Document
Institutional Data in Prescribed Format	View Document

3.4 Institution**Number of eligible applications received for admissions to all the programs year-wise during the last five years**

2018-19	2017-18	2016-17	2015-16	2014-15
590	590	590	590	590

File Description	Document
Institutional Data in Prescribed Format	View Document

Number of seats earmarked for reserved category as per GOI/State Govt rule year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
265	265	265	265	265

File Description	Document
Institutional Data in Prescribed Format	View Document

Total number of classrooms and seminar halls

Response: 42

Total number of computers in the campus for academic purpose

Response: 862

Total Expenditure excluding salary year-wise during the last five years (INR in Lakhs)

2018-19	2017-18	2016-17	2015-16	2014-15
448.07	814.8	1276.55	1069.12	1386.36

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curriculum Design and Development

1.1.1 Curricula developed /adopted have relevance to the local/ national / regional/global developmental needs with learning objectives including program outcomes, program specific outcomes and course outcomes of all the program offered by the Institution

Response:

The institute was established in 1964 by the Government of Maharashtra with intake of 180 students with three programs. Presently, the institute runs seven undergraduate and eight post graduate programs. The institution, right from its inception has always been quality conscious in imparting education. The institution after becoming autonomous in 2006, framing of curricula and the expected outcomes for different courses are decided by applying the internationally recognized and expected attributes of the graduates in engineering. All India Council for Technical Education model curricula, Institute of Electrical and Electronics Engineers, The Association for Computing Machinery, American Society of Mechanical Engineers and American Society of Civil Engineers standards and guidelines are followed while designing the curricula and course content. The programmes include Foundation courses (basic science, engineering science, humanities and social science), Professional Core, Professional Electives including industry designed and offered electives, Open Electives, Employability Enhancement Courses, and self-study courses in the curricula to provide a strong theoretical foundation blended with practical engineering skills with an emphasis on Social/professional responsibility and Ethical/Environment and Sustainability related issues. Apart from this, the students are encouraged to undergo Industrial Training/Internship. The departments also arrange Industrial Visits for each class of students at least once in every year.

The Institution is practicing Outcome Based Education. Two Undergraduate Programmes and one Post Graduate programme are accredited by National Board of Accreditation. NBA accreditation of the remaining programmes are under process. The institution and the departments have elaborately prepared its vision and mission statements. Each programme defines its Programme Specific Outcomes along with the Programme Outcomes defined by NBA and each course in the curricula has its Course Objectives/Course Outcomes in alignment with the Institution Mission/Vision statements. Each department has Department Faculty Board and Board of Studies to ensure the attainment of defined outcomes and accordingly the revisions are carried out for curricular improvements in terms of course content, delivery methods and assessment methods.

All the Undergraduate and Postgraduate programmes offered by the Institution adopts Choice Based Credit System from the academic year 2006-07 onwards. Major revisions of the regulations along with the curricula and syllabi are done once in four years. However, minor revisions as and when required, recommended by the Department Faculty Board and Board of Studies are incorporated in the regulations/curricula/course content after the approval of Academic Council. The inputs and feedbacks received from Experts from Industry/Academia, Internal Faculty members, Employers, Students, Alumni and parents play a vital role in revision of vision/mission/programme outcomes/programme specific outcomes/regulations/curricula/course content.

1.1.2 Percentage of programs where syllabus revision was carried out during the last five years**Response:** 100

1.1.2.1 How many programs were revised out of total number of programs offered during the last five years

Response: 15

1.1.2.2 Number of all programs offered by the institution during the last five years

Response: 15

File Description**Document**

Details of program syllabus revision in last 5 years

[View Document](#)**1.1.3 Average percentage of courses having focus on Employability/ Entrepreneurship/ Skill development during the last five years****Response:** 63.36

1.1.3.1 Number of courses having focus on employability/ entrepreneurship/ skill development year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
287	287	287	287	287

File Description**Document**

Average percentage of courses having focus on employability/ entrepreneurship

[View Document](#)**1.2 Academic Flexibility****1.2.1 Percentage of new Courses introduced out of the total number of courses across all Programs offered during last five years****Response:** 23.23

1.2.1.1 How many new courses are introduced within the last five years

Response: 82

1.2.1.2 Number of courses offered by the institution across all programs during the last five years

Response: 353	
File Description	Document
Institutional data in prescribed format	View Document

1.2.2 Percentage of programs in which Choice Based Credit System (CBCS)/Elective course system has been implemented	
Response: 100	
1.2.2.1 Number of programmes in which CBCS/ Elective course system implemented.	
Response: 15	
File Description	Document
Institutional data in prescribed format	View Document

1.3 Curriculum Enrichment

<p>1.3.1 Institution integrates cross cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum</p> <p>Response:</p> <p>Students, irrespective of their genders, participate in various co-curricular activities such as workshops, project competitions, organization of paper contests, group discussions, technical quiz programs and various cultural activities. Institute organizes various programs such as Prajwalan (a technical festival), Zenith (an annual social gathering), Kalpana Chawala trophy (sports) and other programs at institute and department level that help in providing platform for girls and boys equally which leads to overall grooming of the students. Also, they are encouraged for participating in such events outside the campus at University and national level. Further, the different auspicious days are celebrated which include Yoga, Sadbhavana, Sanvidhan, Ekata, etc. along with programs on the occasion of birth anniversaries of great personalities.</p> <p>The separate link is provided below for the courses that particularly address the issues outlined in title. These courses include General proficiency I and II at first year of UG programs, while at higher level Minor Project, Project Phase I and II, Seminar, Environmental Pollution Control, Industrial Training and Visit, Human Resource and Economics, Industrial Organization and Management, Project Management, Operation Research, etc. form the part of the curricula of UG program.</p> <p>The project batches at UG level are formed with girls and boys being almost equally distributed. They work together on a project and participate in the project competitions and national level contests like BAJA and TIFAN, to name a few. Quite often, the project work undertaken addresses the social, industrial and appropriate technology problems related to environment and sustainability.</p> <p>The Institute offers separate PG program in Environmental Engineering where students get the exposure to</p>
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related, highly specialized courses and topics.

File Description	Document
Any additional information	View Document

1.3.2 Number of value-added courses imparting transferable and life skills offered during the last five years

Response: 0

1.3.2.1 Number of value-added courses are added within the last five years

File Description	Document
List of value added courses	View Document
Brochure or any other document relating to value added courses	View Document

1.3.3 Average percentage of students enrolled in the courses under 1.3.2 above

Response: 0

1.3.3.1 Number of students enrolled in value-added courses imparting transferable and life skills offered year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	0	0	0

1.3.4 Percentage of students undertaking field projects / internships

Response: 11.95

1.3.4.1 Number of students undertaking field projects or internships

Response: 240

File Description	Document
List of programs and number of students undertaking field projects / internships	View Document
Any additional information	View Document

1.4 Feedback System

<p>1.4.1 Structured feedback received from 1) Students, 2) Teachers, 3) Employers, 4) Alumni 5) Parents for design and review of syllabus Semester wise /year-wise</p> <p>A. Any 4 of above</p> <p>B. Any 3 of above</p> <p>C. Any 2 of above</p> <p>D. Any 1 of above</p> <p>Response: B. Any 3 of above</p>	
File Description	Document
Any additional information	View Document

<p>1.4.2 Feedback processes of the institution may be classified as follows:</p> <p>A. Feedback collected, analysed and action taken and feedback available on website</p> <p>B. Feedback collected, analysed and action has been taken</p> <p>C. Feedback collected and analysed</p> <p>D. Feedback collected</p> <p>Response: C. Feedback collected and analysed</p>	
File Description	Document
Any additional information	View Document
Any additional information	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Average percentage of students from other States and Countries during the last five years

Response: 0

2.1.1.1 Number of students from other states and countries year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	0	0	0

File Description

Document

List of students (other states and countries)

[View Document](#)

Institutional data in prescribed format

[View Document](#)

2.1.2 Demand Ratio(Average of last five years)

Response: 0

2.1.2.1 Number of seats available year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	0	0	0

File Description

Document

Demand Ratio (Average of Last five years)

[View Document](#)

2.1.3 Average percentage of seats filled against seats reserved for various categories as per applicable reservation policy during the last five years

Response: 100

2.1.3.1 Number of actual students admitted from the reserved categories year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
265	265	265	265	265

File Description	Document
Average percentage of seats filled against seats reserved	View Document

2.2 Catering to Student Diversity

2.2.1 The institution assesses the learning levels of the students, after admission and organises special programs for advanced learners and slow learners

Response:

The institute organizes the Orientation programme for newly admitted students. The college understands the need of the parents as well and hence, invites parents and students to the Orientation program to familiarize them with the college, its rules and regulations, facilities and various departmental faculties. During first year of the UG programme, remedial classes are held for poor performing students. Lateral entry students are admitted to the second year directly after their diploma in polytechnic colleges. Though they are good in the subjects relating to the trade of their choice, their mathematical skills require to be supplemented. Hence special audit courses are run for them. A student has to earn the total number of credits specified in the curriculum of the respective Programme in order to be eligible to obtain the degree.

The institution follows a well-designed academic plan to implement desired learning objectives, assess the students and guide them to improve their academic performance.

1. Regular Class Review Committee (CRC) meetings are conducted to assess the understanding comforts of the students
2. Remedial classes are scheduled for slow learners
3. Advanced learners are encouraged for paper presentations and funding for innovative projects through forums.
4. Tutorials are included in the regular class work time-table to solve more number of problems and to revise the topics covered
5. E-Learning resources like NPTEL lectures, e-journals, AICTE-SWAYAM courses are also used in addition to video and ppt lectures.

2.2.2 Student - Full time teacher ratio

Response: 24.79

2.2.3 Percentage of differently abled students (Divyangjan) on rolls**Response:** 1.84**2.2.3.1 Number of differently abled students on rolls**

Response: 37

File Description	Document
List of students(differently abled)	View Document
Institutional data in prescribed format	View Document

2.3 Teaching- Learning Process**2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences****Response:**

The curriculum has theory, laboratories, workshops, seminars & project work to develop the entire graduate attributes in the students. Tutorials are held for most of the course to help the students by to solve on their own by discussing, allowing the students to present a seminar on a topic. In the laboratories, student involve in designing, making connections, performing experiments, verifying the results, analysing the problem statement, finding the possible solutions for the given problem, applying the quantitative metrics to find the best solution and etc. . This helps students to develop practical skills, team work and record writing or report writing skills. Courses like Workshop, Engineering Drawing supports the students to enhance their drawing skills, model building skills. Students at both UG and PG level present a seminar on technical topic by doing a literature survey of current technology areas using the e-journals available in library. Mini project and major project work helps the students to do a practical/hardware/simulation work as a single/team and employ suitable problem solving methods and contribute to develop a hardware/software product. NPTEL video lectures are used as part of ICT based teaching.

In the entire four-year engineering programme, there are about 40 theory courses and 24 practical courses (differs as per programme), besides there is minor and major Project in last two semester respectively.

The examination comprises two components, the internal assessment consisting of Class Test-I, Class Test-II and Teaching Assessment for 40% and the end of semester examination accounting for the rest 60%. For practicals its 50-50.

For the Internal assessment, there are two class tests spread evenly over the entire period of the semester. The class test generally commences once in a month of that semester. The schedule for the class tests is given at the beginning of the semester. The tests are conducted for three days, for about one hour with two tests per day. The end semester examinations commence after the second class test. This pre planed schedule helps students to be prepared for all exams and enhancing their learning experiences.

Practical exposure to students is an important part of teaching to help students nurture critical thinking,

creativity and scientific temper. The library is open 9 am to 6 pm. The library has about 2500 CDs of live lectures of eminent professors from institutions of repute viz. IITs.

Every student is required to complete course as Industrial Training/Visit preferably in the seventh semester of the programme which helps them for experiential learning. Students are incentivized for their creativity and critical thinking by the institution by providing seed funding (SRF) for innovative projects. Most of these projects lead to publications in refereed international journals and participation national level competitions.

The list of student centric methods like experiential learning, problem solving methodologies etc. being used by the institute is as given below.

- Short Group Discussions
- Minor and Major project
- Case studies
- Tutorials in addition
- Industrial Training/Visits
- Student internship programs
- Skill development programs
- Expert Talks
- Self Study

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

Response: 100

2.3.2.1 Number of teachers using ICT

Response: 81

File Description	Document
List of teachers (using ICT for teaching)	View Document

2.3.3 Ratio of students to mentor for academic and stress related issues

Response: 29.53

2.3.3.1 Number of mentors

Response: 68

File Description	Document
Any additional information	View Document

2.3.4 Preparation and adherence to Academic Calendar and Teaching plans by the institution

Response:

1. Detailed academic calendar indicating dates for all scheduled activities such as commencement of classes for each semester, online and offline registration for semester, all class tests/ midterm exams, end of the term, end semester exams (theory and practical), list of holidays and vacations is being prepared well in advance and then is discussed, modified (if required) and then approved in academic program evaluation committee and finally in the academic council. The approved academic calendar is uploaded on institute's website and displayed on the institutional/departmental notice board to enable all students to aware of all academic activities before/at the time of commencement of academic year. Institute is striving hard for the adherence of the academic calendar and it can be seen from execution chart that commencement of classes, all examinations and declaration of result is never differed (except in some emergencies) from the date of academic calendar.

2. Every faculty has liberty to prepare and implement their own teaching plan and methodology for their subjects. The thinking behind this is to have more flexible and student centric teaching learning process. Whereas in the curriculum teaching hours (weekly) are allotted to each subject to complete the syllabus within time, which is followed by all the faculties and the continuous follow up is been taken through CR meetings conducted before each exam . In general the teaching plan is known to students through their respective subject teacher.

3. All academic calendars of last five years are available on institute's website.

2.4 Teacher Profile and Quality

2.4.1 Average percentage of full time teachers against sanctioned posts during the last five years

Response: 60

File Description	Document
Year wise full time teachers and sanctioned posts for 5 years	View Document
List of the faculty members authenticated by the Head of HEI	View Document

2.4.2 Average percentage of full time teachers with Ph.D. during the last five years

Response: 30.68

2.4.2.1 Number of full time teachers with Ph.D. year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
25	25	22	29	27

File Description	Document
List of number of full time teachers with PhD and number of full time teachers for 5 years	View Document

2.4.3 Teaching experience per full time teacher in number of years

Response: 14.14

2.4.3.1 Total experience of full-time teachers

Response: 1145

2.4.4 Percentage of full time teachers who received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the last five years

Response: 3.6

2.4.4.1 Number of full time teachers receiving awards from state /national /international level from Government recognised bodies year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
1	0	1	0	1

File Description	Document
Institutional data in prescribed format	View Document
e-copies of award letters (scanned or soft copy)	View Document

2.4.5 Average percentage of full time teachers from other States against sanctioned posts during the last five years

Response: 0

2.4.5.1 Number of full time teachers from other states year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	0	0	0

File Description	Document
List of full time teachers from other state and state from which qualifying degree was obtained	View Document

2.5 Evaluation Process and Reforms

2.5.1 Average number of days from the date of last semester-end/ year- end examination till the declaration of results during the last five years

Response: 13.8

2.5.1.1 Number of days from the date of last semester-end/ year- end examination till the declaration of results year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
14	21	12	10	12

File Description	Document
List of programs and date of last semester and date of declaration of result	View Document

2.5.2 Average percentage of student complaints/grievances about evaluation against total number appeared in the examinations during the last five years

Response: 0

2.5.2.1 Number of complaints/grievances about evaluation year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	0	0	0

2.5.3 Average percentage of applications for revaluation leading to change in marks during the last five years

Response: 29.49

2.5.3.1 Number of applications for revaluation leading to change in marks year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
238	398	362	333	327

2.5.4 Positive impact of reforms on the examination procedures and processes including IT integration and continuous internal assessment on the examination management system

Response:

Examination procedure:

A student shall be evaluated for academic performance in a course through Teacher's Assessment (tutorials, home assignments, term papers, field work, seminars, etc. as declared by the course coordinator), Class Test I / II, practical (Internal and external examination) and the End-Semester Examination, as applicable according to the guidelines formulated for this purpose.

There will be two Class Tests during the semester each of 15 marks (1 Hour duration) in every theory course and Teachers Assessment of 10 marks. The Class Test I (25 % syllabus) will be conducted at the end of 5th week and the Class Test II (25 % syllabus other than covered in Class Test I) shall be at the end of 10th week of the semester

There will be compulsory End Semester Examination of 60 marks (minimum 2 Hours 30 min. duration or as prescribed and approved by concerned BOS) for every theory course and will cover the full syllabus of a course.

Continuous internal assessment system:

In theory courses, the continuous evaluation is done by teachers so as to enable him to finalize 10 marks allocated for Teacher's Assessment component.

Assessment of laboratory course of a student shall be carried on continual basis throughout the semester. At the end of each experiment/practical a teacher will assess the student on the following parameters,

- Technical competence (Usage of Tools and Techniques)
- Innovation (Research/ Creativity / Thinking/ Quality / spirit of inquiry)
- Participation in team (Decision Making , Leadership)
- Integrity and Responsibility

This assessment shall be done immediately after the experiment is completed. The proforma A and B are used for continuous assessment. The teacher has to take signature of student immediately after assessment a token that the student is made aware of the marks he scored in that practical experiment. At

the end of semester average marks of all experiments will be calculated and fed to MIS and result will be prepared in form No.R-03 within stipulated period.

Processes integrating IT

The institute has purchased MIS software from M/s The Master's Software, Nagpur. The course coordinators fill up the marks of Class Test – 1, 2 & Teacher's Assessment (in case of theory courses), and marks of internal & external examination (in case of practical courses) from any point in the campus using the link <http://10.121.11.204/GCOEA> using his login name and password.. The data is centrally stored in the server, placed at Dean (Academic) office.

The evaluation of answer books of end semester examination (ESE) is done at Centralized Assessment Centre (CAC). The data is centrally stored in the server, placed at Dean (Academic) office. The further processing (processing of results) is done in the result section using the MIS software. The results are declared within the scheduled time frame. The record of marks is verified at each stage through various formats generated and certified by course coordinators and chairman, BoS. The students have direct access through their login ID to check their marks and grades.

2.5.5 Status of automation of Examination division along with approved Examination Manual

A. 100% automation of entire division & implementation of Examination Management System (EMS)

B. Only student registration, Hall ticket issue & Result Processing

C. Only student registration and result processing

D. Only result processing

Response: B. Only student registration, Hall ticket issue & Result Processing

File Description	Document
Current manual of examination automation system and Annual reports of examination including the present status of automation	View Document
Current Manual of examination automation system	View Document

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 on website and communicated to teachers and students

Response:

Vision and mission of the institute is prepared with participation of all the stakeholders and deliberations in the meetings of Heads and Deans. Accordingly, PEOs of the various programs are prepared. OBE includes Program Educational Objectives (PEOs), Program Outcomes (POs), Program Specific Outcomes (PSOs) and Course Outcomes (COs). PEOs are broad statements that describe the career and professional accomplishments that the program is preparing the graduates to achieve.

PEOs are measured 4-5 years after graduation. POs are narrower statements that describe what students are expected to know and be able to do by the time of graduation. POs for each of the engineering undergraduate program are specified by National Board of Accreditation (NBA).

PSOs are the specific program wise outcomes that have been separately formulated for the programs offered by all the Departments of the Institute. COs are the measurable parameters which evaluate students performance for each course that is undertaken in every semester. COs are written for each of the course of all the programs offered presently. For the B.Tech. programs in Mechanical and Civil engineering, these have been critically reviewed by the committee that visited for accreditation.

The POs, PSOs and COs are displayed on the website prominently. The separate meetings were conducted with peer groups, faculty and supporting staff to make them aware of outcomes. The teachers themselves were involved in preparing vision, mission, PEOs, PSOs and COs. The students are informed about the course outcomes by the respective teachers. The POs and PSOs are also exhibited as posters in the respective Departments. The POs, PSOs and COs are elaborated in the syllabi of the two programs that are accredited. The similar exercise for inclusion of outcomes in the syllabi of other programs is underway.

2.6.2 Attainment of program outcomes, program specific outcomes and course outcomes are evaluated by the institution

Response:

An assessment processes is based on gathered data to evaluate course outcomes. Data collection processes includes:

Examination: comprises two class tests, teacher's assessment and end semester examination ? Lab work: actual performance and internal continuous examination and external examination

Teacher's assessment: is based on Assignments as a part of continuous assessment, Surprise Tests, Quizzes and Seminars on latest and innovative topics related to the particular course

Mini project: include design, problem identification, problem formulation fabrication, site visits, market survey, model and prototype based work, report writing

Project: includes design, problem identification, problem formulation fabrication, experimental, data analysis

Feedback of faculty members: regarding the student's performance in the course and degree of achievement of Pos

Feedback from students: Feedback from students about faculty with regard to teaching skills/methodology, coverage of syllabus and topics covered beyond the scope of syllabus

Feedback from alumni: regarding achievement of Cos

Placement Record: Students placed in different companies, industries and other jobs.

Feedback from employer: Feedback from employer is taken regarding performances of students in different sectors.

Student's Exit feedback: Feedback from passing graduates is taken

The CO attainment level is measured using the result of the internal assessment and End Semester Examination/external examination as a Direct Assessment and course feedback by students and expert feedback by peer experts as an indirect assessment. Direct assessment is taken as 70% and indirect assessment is taken as 30%.

The direct assessment for Theory course has four components CT1, CT2, TA and ESE and for Laboratory course, continuous internal assessment and external examination marks.

Later, PO and PSO attainment is calculated using Course-PO and PSO articulation matrix.

The complete procedure of calculation of CO and PO attainment is elaborated in the additional information uploaded herewith.

File Description	Document
Any additional information	View Document

2.6.3 Average pass percentage of Students

Response: 94.16

2.6.3.1 Total number of final year students who passed the examination conducted by Institution.

Response: 548

2.6.3.2 Total number of final year students who appeared for the examination conducted by the institution

Response: 582

File Description	Document
List of programs and number of students passed and appeared in the final year examination	View Document

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Response: 2.69

NAAC

Criterion 3 - Research, Innovations and Extension

3.1 Promotion of Research and Facilities

3.1.1 The institution has a well defined policy for promotion of research and the same is uploaded on the institutional website

Response: Yes

File Description	Document
URL of Policy document on promotion of research uploaded on website	View Document

3.1.2 The institution provides seed money to its teachers for research (average per year)

Response: 0

3.1.2.1 The amount of seed money provided by institution to its faculty year-wise during the last five years(INR in Lakhs)

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	0	0	0

File Description	Document
Minutes of the relevant bodies of the Institution	View Document
List of teachers receiving grant and details of grant received	View Document

3.1.3 Number of teachers awarded international fellowship for advanced studies/ research during the last five years

Response: 0

3.1.3.1 The number of teachers awarded international fellowship for advanced studies / research year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	0	0	0

File Description	Document
List of teachers and their international fellowship details	View Document

3.1.4 Institution has the following facilities

1. Central Instrumentation Centre
2. Animal House/Green House / Museum
3. Central Fabrication facility
4. Media laboratory/Business Lab/Studios
5. Research / Statistical Databases

A. Any four facilities exist

B. Three of the facilities exist

C. Two of the facilities exist

D. One of the facilities exist

Response: C. Two of the facilities exist

File Description	Document
Institutional data in prescribed format	View Document

3.2 Resource Mobilization for Research

3.2.1 Grants for research projects sponsored by the non-government sources such as industry, corporate houses, international bodies, endowments, Chairs in the institution during the last five years (INR in Lakhs)

Response: 33.62

3.2.1.1 Total Grants for research projects sponsored by the non-government sources such as industry, corporate houses, international bodies, endowments, Chairs in the institution year-wise during the last five years(INR in Lakhs)

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	0	1.5	32.12

File Description	Document
List of project and grant details	View Document

3.2.2 Number of research centres recognised by University and National/ International Bodies	
Response: 6	
3.2.2.1 Number of research centres recognised by University and National/ International Bodies	
Response: 6	
File Description	Document
Names of research centres	View Document

3.2.3 Percentage of teachers recognised as research guides	
Response: 1.23	
3.2.3.1 Number of teachers recognised as research guides	
Response: 1	
3.2.3.2 Number of full time teachers worked in the institution during the last 5 years	
Response: 81	
File Description	Document
Details of teachers recognized as research guide	View Document

3.2.4 Number of research projects per teacher funded, by government and non-government agencies, during the last five year	
Response: 0	
3.2.4.1 Number of research projects funded by government and non-government agencies during the last five years	
File Description	Document
link to funding agency website	View Document

3.3 Innovation Ecosystem

3.3.1 Institution has created an eco system for innovations including Incubation centre and other initiatives for creation and transfer of knowledge

Response:

The institution supports the innovation culture and to develop an eco-system, an incubation centre is proposed.

The institute is one of the premier technical institutes, offering technical education at under graduate, post graduate and doctoral level. It is situated near the underprivileged tribal region and many students under take minor-projects, major-projects and hobby projects that contribute to techno-social needs of the region. Institute also inspires the students to undertake relevant projects to cater societal needs and provides budget for such projects and grant other expenses like TA/DA and registration fees for participation in project competitions in-and-around the state too. Students are showing interest in start-ups and innovations in developing areas of technology like IoT, Robotics, Cyber Security, Material Sciences and Engineering, Smart Sensor, Renewable Energy, 3D printing etc.

The institute is planning to develop an Incubation centre to facilitate research and Innovation culture within its campus. Necessary technical guidance, professional expertise and funding will be offered to the innovators.

As a part of Maharashtra State Innovative Startup policy 2018, a proposal for establishing an ‘Incubation Center’ is submitted to Maharashtra State Innovative Society. The facility will act as innovation promotion platform for the students of the institute, entrepreneurs of the region, researchers of the affiliating University and Government agencies. It will comprehend the various problems in the region and propose means and innovative technological solutions to them.

The proposal containing committee of fourteen experts including industry experts; Mr. Sanjay Jadhao, Mr. Kiran Paturkar & Mr. Sanjay Supe and academic experts under chairmanship of Prof. Dr. R. P. Borkar is established, which will be lead by Faculty In-charge Dr. G. A. Dhokane and Asst. Faculty In-charge Mr. Prashant Paikrao. It also includes a faculty member from each department. The principal of the institute agreed to sanction appropriate budget to meet capital and operational expenses. It is also proposed establishing infrastructural facility of around 1000 Sq.M. built up area.

Highlights of student participation and success:

- Students under RoboTech Forum are continuously participating in the National event ROBOCON, held at MIT Pune and secured awards for MATLAB usage in Robot design for consecutive two years.
- Students under SAE-BAJA competition, designed multi-terrain vehicle and won national award.
- TCS best project competition is arranged every year in the institute.
- Last year students secured second position in project competition “IndNX-4.0” Hackathon under CII held at TCS, Nagpur and seven teams around 20 projects are participating this year for Smart India Hackathon.
- Students under I2I club are regularly participating in project competition of Ignited Innovators of India (an initiative by COEP’s BHAU institute). Along with Most Enthusiastic Participation Award at its maiden association the club won Best Philanthropist Award along with many other awards till date. In year 2017-18, 121 projects participated in the competition out of which 09 projects are selected for final phase after three phases of competition.

Apart from above competitions, the faculty and students are involved in filing the patents with regard to

their innovative work.

3.3.2 Number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry - Academia Innovative practices during the last five years

Response: 1

3.3.2.1 Number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	1	0	0

File Description	Document
Report of the event	View Document
List of workshops/seminars during the last 5 years	View Document

3.3.3 Number of awards for innovation won by institution/ teachers/ research scholars/students during the last five years

Response: 0

3.3.3.1 Total number of awards for innovation won by institution/teachers/research scholars/students year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
0	00	0	0	0

File Description	Document
List of innovation and award details	View Document

3.3.4 Number of start-ups incubated on campus during the last five years

Response: 0

3.3.4.1 Total number of start-ups incubated on campus year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	0	0	0

File Description	Document
List of startups details like name of startup, nature, year of commencement etc	View Document

3.4 Research Publications and Awards

3.4.1 The institution has a stated Code of Ethics to check malpractices and plagiarism in Research

Response: Yes

File Description	Document
Institutional data in prescribed format	View Document

3.4.2 The institution provides incentives to teachers who receive state, national and international recognition/awards

Response: No

3.4.3 Number of Patents published/awarded during the last five years

Response: 12

3.4.3.1 Total number of Patents published/awarded year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
2	3	2	4	1

File Description	Document
List of patents and year it was awarded	View Document
Any additional information	View Document

3.4.4 Number of Ph.D.s awarded per teacher during the last five years

Response: 0

3.4.4.1 How many Ph.Ds are awarded within last 5 years

3.4.4.2 Total number of teachers recognised as guides during the last 5 years	
File Description	Document
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc	View Document
URL to the research page on HEI web site	View Document

3.4.5 Number of research papers per teacher in the Journals notified on UGC website during the last five years				
Response: 0.2				
3.4.5.1 Number of research papers in the Journals notified on UGC website during the last five years				
2018-19	2017-18	2016-17	2015-16	2014-15
2	6	3	4	2
File Description	Document			
List of research papers by title, author, department, name and year of publication	View Document			

3.4.6 Number of books and chapters in edited volumes / books published, and papers in national/international conference-proceedings per teacher during the last five years				
Response: 1.55				
3.4.6.1 Total number of books and chapters in edited volumes / books published, and papers in national/international conference-proceedings year-wise during the last five years				
2018-19	2017-18	2016-17	2015-16	2014-15
13	25	26	31	34
File Description	Document			
List books and chapters in edited volumes / books published	View Document			

3.4.7 Bibliometrics of the publications during the last five years based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index
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Response: 1.67

File Description	Document
BiblioMetrics of the publications during the last five years	View Document

3.4.8 Bibliometrics of the publications during the last five years based on Scopus/ Web of Science - h-index of the Institution

Response: 7

File Description	Document
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	View Document

3.5 Consultancy

3.5.1 Institution has a policy on consultancy including revenue sharing between the institution and the individual

Response: Yes

File Description	Document
URL of the consultancy policy document	View Document

3.5.2 Revenue generated from consultancy during the last five years

Response: 281.77

3.5.2.1 Total amount generated from consultancy year-wise during the last five years (INR in Lakhs)

2018-19	2017-18	2016-17	2015-16	2014-15
245.86	6.64	21.23	6.14	1.9

File Description	Document
List of consultants and revenue generated by them	View Document
Audited statements of accounts indicating the revenue generated through consultancy	View Document

3.5.3 Revenue generated from corporate training by the institution during the last five years**Response:** 43.95

3.5.3.1 Total amount generated from corporate training by the institution year-wise during the last five years (INR in Lakhs)

2018-19	2017-18	2016-17	2015-16	2014-15
8.58	8.47	8.03	10.21	8.66

File Description	Document
List of teacher consultants and revenue generated by them	View Document

3.6 Extension Activities**3.6.1 Extension activities in the neighbourhood community in terms of impact and sensitising students to social issues and holistic development during the last five years****Response:**

In the last five years, the institute has conducted a number of activities to sensitize the students about social issues. These are as follows:

1. BLOOD DONATION AWARENESS PROGRAM :

Students are initially made aware about the need to donate blood. Dr. Shrikant Zarpade, Medical officer, and Mr. Agarkar, Social councilor, Government hospital, Amravati were invited to inform the students about the need to donate blood. The issues were covered with a session of question & answers about hygiene & safety during blood transfusion & social aspects of charity works. Around 250 + students have participated in the program.

1. BLOOD DONATION CAMP :

In order to address the need of blood supplies to thalassemia patients, accident victims and other ailing patients, routinely, blood donation camps are organised by the institute.

1. Shramadaan :

In order to engender the quality of self help, the students participate in cleaning the campus once per semester. Also, the cleaning is performed off-campus in an orphanage for kids (Sadashanti Orphanage, Amravati).

1. An expression of charity

Under this initiative, three programs were voluntarily initiated by the students of all years & all disciplines.

- Melghat, the nearby area known for extreme poverty is chosen to serve the locality. Good quality usable clothes were collected voluntarily by students & were distributed to the Below Poverty Line people. For this work, Jyot Foundation, a voluntary student organization took efforts and helped many people.
- First year engineering students who can't afford the fees in one installment were identified and provided support for fees of engineering admission. Funding was created with the help of social networking & students participation.
- Also, books & notes for studies were collected from senior students or passed out students. The same were then donated ceremoniously to the poor students.

The series of such programs has created a culture of self help among participating students and also has developed their motivations to further such causes.

3.6.2 Number of awards and recognition received for extension activities from Government /recognised bodies during the last five years

Response: 0

3.6.2.1 Total number of awards and recognition received for extension activities from Government /recognised bodies year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	0	0	0

File Description

Document

Number of awards for extension activities in last 5 years

[View Document](#)

3.6.3 Number of extension and outreach Programs conducted in collaboration with Industry, Community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the last five years

Response: 7

3.6.3.1 Number of extension and outreach Programs conducted in collaboration with Industry, Community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	0	0	7

File Description	Document
Reports of the event organized	View Document
Number of extension and outreach programs conducted with industry,community etc for the last five years	View Document

3.6.4 Average percentage of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the last five years

Response: 2.67

3.6.4.1 Total number of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	0	0	280

File Description	Document
Average percentage of students participating in extension activities with Government or NGO etc	View Document

3.7 Collaboration

3.7.1 Number of Collaborative activities for research, faculty exchange, student exchange per year

Response: 0.4

3.7.1.1 Total number of Collaborative activities for research, faculty exchange, student exchange year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
0	2	0	0	0

File Description	Document
Number of Collaborative activities for research, faculty etc	View Document
Copies of collaboration	View Document

3.7.2 Number of linkages with institutions/industries for internship, on-the-job training, project work, sharing of research facilities etc. during the last five years

Response: 24

3.7.2.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
18	4	2	0	0

File Description	Document
e-copies of linkage related Document	View Document
Details of linkages with institutions/industries for internship	View Document

3.7.3 Number of functional MoUs with institutions of National/ International importance, Other Institutions, Industries, Corporate houses etc., during the last five years (only functional MoUs with ongoing activities to be considered)

Response: 4

3.7.3.1 Number of functional MoUs with institutions of national, international importance, other universities, industries, corporate houses etc. year-wise during the last five years (only functional MoUs with ongoing activities to be considered)

2018-19	2017-18	2016-17	2015-16	2014-15
1	0	0	0	3

File Description	Document
Details of functional MoUs with institutions of national, international importance, other universities etc during the last five years	View Document

NVAAC

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 The institution has adequate facilities for teaching - learning. viz., classrooms, laboratories, computing equipment, etc

Response:

The college was established in 1964. The College is situated on a sprawling 105 Acre of campus. Since then the adequate availability of physical infrastructure was duly identified and has been planned and constructed accordingly. Every department is provided with built up space as per the requirements of AICTE in the form of class rooms, laboratories and seminar halls, staff rooms and departmental library. In addition to this there are central facilities in the form of library, computing facility and student recreational facilities. Allied areas in the form of hostels, and mess cater the need of students. The campus also provides appropriate parking facility for cycles, two wheeler and four wheeler vehicles.

Every department has dedicated laboratories and classrooms. Each laboratory is equipped with sufficient number of required experimental setups. Computers in the campus are connected to internet.

Institution is now running 7 UG programs in B. Tech-Civil Engineering, Electrical Engineering, Mechanical Engineering, Computer Science and Technology, Instrumentation Engineering, Information Technology and Electronics and Telecommunication Engineering. The institute also runs 8 PG programs in M. Tech - Structural Engineering, Geotechnical Engineering, Environmental Engineering, Production Engineering, Thermal Engineering, Electronic System and Communication, Electrical Power System and Computer Science and Engineering.

Central library is open from 11 AM to 10 PM and is having a large collection of textbooks, journals (hard copy and soft copy) and magazines. There is E-class room in the central library with a seating capacity of 30, where digital library facility is available to the students and faculty. Also e-journals and online books/learning material can be accessed.

Details of Built-up Area

Sr. No.	Department	Total Built-up Area in Sq. m
1	Civil and Applied Mechanics	3492
2	Mechanical Engineering	1797
3	Electrical Engineering(With Extension)	3026
4	Electronics and Telecommunication Engineering	3253
5	Instrumentation Engineering	1094

6	Computer Science and Engineering	1951
7	Information Technology	1136
8	Administrative Building	5118
9	Workshop	2212
10	Central Library	1478
11	Gymkhana and Health Center	208
12	Canteen	301
13	Boys Hostel Satpuda	2625
14	Boys Hostel Shydandri	2625
15	Boys Hostel New	3112
16	Girls Hostel Jijao	2926
17	Girls Hostel New	2926
18	SC-ST boys Hostel	1063
19	Principal Quarter	123
20	Rector's and Warden's Quarter	794

4.1.2 The institution has adequate facilities for sports, games (indoor, outdoor),gymnasium, yoga centre etc., and cultural activities

Response:

Facilities for outdoor and indoor games are available to students. One qualified staff is dedicated to the Gymkhana activities. Apart from this individual faculty also act as advisors for various sport activities. For each of the game a student secretary is selected and thus Gymkhana Council is constituted. College has following sports facilities for the students:

Outdoor Games: Cricket, Foot-Ball, Basket Ball, Volleyball, Handball, Indoor Games: Badminton, Table Tennis, Carom / Chess, Body Gym

Today we could able to provide the following facilities to the students for playing at the campus-

S.N.	Name of Facility	NO.
1	Cricket Field	1
2	Foot Ball Field	1
3	Hand Ball Court	1

4	Volley Ball Courts	2
5	Ball Badminton Court	1
6	Kabaddi Court	1
7	Kho Kho Court	1
8	Badminton Indoor Courts - Outdoor	2
9	Table Tennis Tables.	4
10	Carom Boards.	14
11	Chess Boards	50
12	Well Equipped Gym	1
Total Playground area available: 8 Acers		

Every year we organize the inter-department sports competition and individual game competition. The department which win the most games, declared as general champion for the year and a trophy named after Late KalpnaChawala is given to that department. Also every year two best sport person (one boy and one selected by observing the performance in game throughout the year.

Extracurricular activities: To encourage the extracurricular activities among students the College has good sound system, music system, orchestra, light system and various allied equipments. College has many clubs such as:

- Fine art Club
- Photography Club
- Music and Dramatics Club

Students organize various activities under these clubs. Every year a cultural festival named “Zenith” is organized by inviting Celebrities for presiding the function, under this art exhibition is conducted to render the students an opportunity to express in the form of art. A display of the exhibits, including photographs, paper quelling art, canvas painting, pencil sketching, sculpture, rangoli, abstract paintings, drama, orchestra, dance is arranged.

Co curricular activities:

For every discipline there is students association e.g. CESA, Civil Engineering Students association (similarly MESA, EESA etc. for other disciplines) for conduct of co-curricular activities established in the college. Every Department conducts seminars, workshops and technical contests in areas concerning their programmes to strengthen the theoretical and practical knowledge of the students. There are also student chapters of professional societies e.g. ISTE, IE(I), IEEE etc.in the departments. Student members in the respective chapters and these societies also promote technical activities and student participation. Institution facilitates the conduct of these activities for the benefit of students

4.1.3 Percentage of classrooms and seminar halls with ICT - enabled facilities such as smart class, LMS, etc

Response: 40.48**4.1.3.1 Number of classrooms and seminar halls with ICT facilities**

Response: 17

File Description	Document
Number of classrooms and seminar halls with ICT enabled facilities	View Document
Any additional information	View Document

4.1.4 Average percentage of budget allocation, excluding salary for infrastructure augmentation during the last five years.**Response:** 50.24**4.1.4.1 Budget allocation for infrastructure augmentation, excluding salary year-wise during the last five years (INR in Lakhs)**

2018-19	2017-18	2016-17	2015-16	2014-15
282.76	587	458	633.3	290

File Description	Document
Audited utilization statements	View Document

4.2 Library as a Learning Resource**4.2.1 Library is automated using Integrated Library Management System (ILMS)****Response:**

Digitization of Library

Availability of relevant Learning Resources and Digital Library

Books	79774 (General Section- 43162, Book Bank Section-36612)
Printed National Journals	128 +
E-Journals (National & International)	4857+ (ASTM-13000 Journal Article, ASME-28, ASCE-35, Springer-149, Indexed., IEEE- 145, KNIMBUS –Platform with e-journal-4500, National Digital)
News Papers	13 (Marathi- 05, Hindi- 01, English- 08)
	15 (English- 10, Marathi- 05)

Magazines General		
E-Books	10000+ (ASTM- 1700, MGrav Hill- 130, KNIMBUS- 8532, National Digital Library, Videeya E Books: dedicated 34 E books of Computer Science Engineering available)	
Electronic Database Videos, VCDs & DVDs	Electronic Database Videos, VCDs & DVDs of different Educational courses 3998 Nos	
NPTEL Video Course	90 Nos in downloaded form, All the NPTEL Video Courses available –Platform, Other Video courses are also available through KNIMBUS –Platform	
OPAC Service	OPAC (Online Public Access Catalog) is an online database of materials held in electronic version of the card catalogue. OPAC is the gateway to library collection. The system of searching books is also installed in the institute intranet which will be helpful for checking titles and availability of books by internet.	
Library Automation with SLIM	SLIM (System for <i>Library</i> Information and Management) software is used for Books, Cataloguing, Report, Bar Coding, I.D. Cards etc. it is a complete system for nearly every library task.	
NDL (National Digital Library)	Institute Users are registered with National Digital Library (NDL) which is Ministry of Human Resource Development (MHRD) through its National Digital Library through Information and Communication Technology (NMEICT) to develop a national repository of learning resources with a single-window search facility.	
KNIMBUS PLATFORM	KNIMBUS is an e-library and Mobile application platform, its enable us to access 8532 journals from around 100 publishers. Along with e-library, KNIMBUS also has mobile application and access through which users will be able to access all e-resources every time and everywhere they go. All our AICTE and other e-resources will be available through KNIMBUS platform	
Mobile app” GCOEA eLibrary	KNIMBUS Mobile Application: Knimbus have launched mobile app” GCOEA eLibrary institution and is available on Google play store . With this app users are able to access all e-library contents even from outside the campus with high security and authentication.	
E –Library	In library separate E-Room where dedicated 20 multimedia PC are available with uploaded DVDs /VCDs/NPTEL videos & with the Internet facility	
Webinar & MOOC, Educational channel facility	Seminar room of having capacity of 30 along with LCD projector facility is available for this purpose. TV facility is given to students for watching Gyan Darshan, Eklavya Channel channels.	
Multimedia PC	37 No Existing + 10 No PC (recently ordered)	
Timing	10.30 AM to 9.30 PM, Dedicated time slot in Time table for library	

4.2.2 Collection of rare books, manuscripts, special reports or any other knowledge resource for library enrichment**Response:****Collection of Rare Books – 2015 – 2016**

Sr.No.	Title	Author	Publisher	Publishing Year	Copies
1	Static Compensators (STATCOMs) in Power Systems	Shahnia, F.	Springer	2015	1
2	Concrete Buildings in Seismic Regions	Penelis, G. G.	CRC Press	2014	1
3	Syner-G: Typology Defination and Fragility Functions for Physical Elements at Seismic Risk : Buildings, Lifelines, Transportation Networks and Critical Facilities	Pitilakis, K.	Springer	2014	4
Total Rs. --					6

Collection of Rare Books – 2016 – 2017

Sr.No.	Title	Author	Publisher	Publishing Year	Copies
1	Bayesian Methods for Structural Dynamics and Civil Engineering	Yen, Ka-Veng	Wiley	2010	1
Total Rs. --					1

Collection of Rare Books – 2017 – 2018

Sr.No.	Title	Author	Publisher	Publishing Year	Copies
1	Power System Transients Parameter Determination	Martinez-Velasco Juan A	CRC Press	2010	1
2	Modern Instrumentation for Scientists and Engineers	Blackburn	New York	2001	1
3	PC Interfacing and Data Acquisition	James Kevin	Newness	2000	1

			Publication			
4	Piezoelectric materias	Suresh Bhala	New Delhi	2017		2
5	Elements of Structural Optimization	Prphael T.Haftka	Kluwer	1992		2
Total Rs. --						7

Collection of Rare Books – 2018 – 2019

Sr.No.	Title	Author	Publisher	Publishing Year		
1	Maharaja Sayajirao Gaikwad Yancha Bhashansangra Marathi Khand 1	Ramesh Varkhede	Maharaja Sayajirao Gaikwad Charitr Sadhne Prakashan, Aurangabad	2017		
2	Sahityartn Lokshahir Anna Bhau Sathe Nivdak Wadmay Marathi Khand 1	Rajendra Kumbhar	Sahityartn Lokshahir Anna Bhau Sathe Charitra Sadhne Prakashan Smiti	2017		
3	Sahityartn Lokshahir Anna Bhau Sathe Nivdak Wadmay Marathi Khand 2	Rajendra Kumbhar	Sahityartn Lokshahir Anna Bhau Sathe Charitra Sadhne Prakashan Smiti	2017		
4	Dr. Babasaheb Ambedkar Writings and Speeches Vol. 1	Vasant Moon	Higher & Technical Education Dept. Maharashtra Govt.	2016		

File Description	Document
Any additional information	View Document

4.2.3 Does the institution have the following

- 1.e-journals
- 2.e-ShodhSindhu
- 3.Shodhganga Membership
- 4.e-books
- 5.Databases

Any 4 of the above

Any 3 of the above

Any 2 of the above

Any 1 of the above

Response: Any 3 of the above

File Description	Document
Details of subscriptions like e-journals,e-ShodhSindhu,Shodhganga Membership etc	View Document
Any additional information	View Document

4.2.4 Average annual expenditure for purchase of books and journals during the last five years (INR in Lakhs)

Response: 28.31

4.2.4.1 Annual expenditure for purchase of books and journals year-wise during the last five years (INR in Lakhs)

2018-19	2017-18	2016-17	2015-16	2014-15
31.17193	26.27	32.76	27.13473	24.21749

File Description	Document
Details of annual expenditure for purchase of books and journals during the last five years	View Document
Audited statements of accounts	View Document

4.2.5 Availability of remote access to e-resources of the library

Response: No

4.2.6 Percentage per day usage of library by teachers and students

Response: 3.16

4.2.6.1 Number of teachers and students using library per day over last one year

Response: 66

File Description	Document
Any additional information	View Document

4.3 IT Infrastructure

4.3.1 Institution frequently updates its IT facilities including Wi-Fi

Response:

Data Centre has been upgraded under TEQIP-I for providing centralized internet facilities to faculty and students all over the campus. Earlier, there was 2 Mbps Bandwidth available for users of institute, thereafter in 2012, bandwidth has been upgraded to 10 Mbps through BSNL. As the number of nodes increased, 10 Mbps bandwidth was insufficient. Meanwhile, the institute has been offered 100 Mbps bandwidth & router under National Knowledge Network (NKN), a Central Government scheme. Thus, total bandwidth of institute became 110 Mbps in 2012. Data center procured wireless access points and switches to provide wireless internet service to users in 2013. Simultaneously, networking of various departments increased with total nodes up to 1000. In 2014, rack servers, network operating system have been procured to make internet facility more effective. Further, in 2015, more switches, Wi-Fi access points, PS for more backup are added. Institute has updated its Website according to the requirement of users. Thus, the Institute has 1000 physical nodes and 1000 wireless internet users can avail facility. In 2019, BSNL bandwidth is increased to 75 Mbps, so that total bandwidth available is 175 Mbps (100 Mbps NKN & 75 Mbps BSNL). The Institute has submitted the proposal to NKN for upgradation of current bandwidth from 100 Mbps to 1000 Mbps. Also, the procurement of Unified Threat Management (UTM) firewall for providing network security, more number of advanced Wi-Fi devices, switches, etc is under process.

4.3.2 Student - Computer ratio

Response: 2.33

4.3.3 Available bandwidth of internet connection in the Institution (Lease line) ?50 MBPS

35 MBPS - 50 MBPS

20 MBPS - 35 MBPS

5 MBPS - 20 MBPS

Response: ?50 MBPS

File Description

Document

Any additional information

[View Document](#)

4.3.4 Facilities for e-content development such as Media Centre, Recording facility, Lecture Capturing System (LCS)

Response: No

File Description

Document

Facilities for e-content development such as Media Centre, Recording facility, LCS

[View Document](#)

4.4 Maintenance of Campus Infrastructure

4.4.1 Average Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, as a percentage during the last five years

Response: 11.82

4.4.1.1 Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component year-wise during the last five years (INR in Lakhs)

2018-19	2017-18	2016-17	2015-16	2014-15
110.89	20.77	200.42	121.79	65.52

File Description	Document
Details about assigned budget and expenditure on physical facilities and academic facilities	View Document
Audited statements of accounts.	View Document

4.4.2 There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.

Response:

The construction of new buildings and major maintenance are carried out by Public Works Department of Government of Maharashtra. In addition to this, the Institute has its own Building and Works Committee that comprises Principal (Chairman), one BoG member, one Architect, PWD representative, AMC representative, Dean (Construction) and Head (Civil) as a member secretary. This committee takes decisions on infrastructure developments, electrical installations and budgetary provisions thereof. Minor civil works are executed and monitored by the committee.

Housekeeping:

Institute has few regular employees to look after the cleanliness. Apart from that, the housekeeping work and gardening is carried out by hired agencies. These agencies look after the maintenance of cleanliness and the maintenance of the garden. Major electrical installation and maintenance work is looked after by electrical division of PWD. There is a set system for addressing the minor electrical problems which is supervised by the Electrical Department.

Additional information regarding Infrastructure and Learning Resources, which the institution would like to include.

The annual maintenance contract of Management Information System for registration, examination and results of the students is made

EPABX facility is available in institute for internal and external communication

Sufficient parking space is provided for cycles, two wheelers and four wheelers.

Institute has security guards (24 x7) for campus security.

Express feeder line for uninterrupted electric supply is provided.

Power backup by 2 DG set (125KVA each)

LCD projectors, EPBX system, air conditioners and water coolers are maintained with the help of external agencies.

Library resource materials and users of the library are monitored by CCTV surveillance.

Campus-wide networking.

Repair and maintenance of the equipments is taken care of by respective Departments.

ATM facility is available in campus.

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1 Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years

Response: 62.92

5.1.1.1 Number of students benefited by scholarships and freeships provided by the Government year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
1379	1296	1243	1228	1281

File Description	Document
Upload self attested letter with the list of students sanctioned scholarships	View Document
Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years	View Document
Any additional information	View Document

5.1.2 Average percentage of students benefited by scholarships, freeships, etc. provided by the institution besides government schemes during the last five years

Response: 0.99

5.1.2.1 Total number of students benefited by scholarships, freeships, etc provided by the institution besides government schemes year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
21	28	12	19	21

5.1.3 Number of capability enhancement and development schemes –

1. Guidance for competitive examinations
2. Career Counselling
3. Soft skill development
4. Remedial coaching

- 5. Language lab
- 6. Bridge courses
- 7. Yoga and Meditation
- 8. Personal Counselling

7 or more of the above

Any 6 of the above

Any 5 of the above

Any 4 of the above

Response: Any 4 of the above

File Description	Document
Details of capability enhancement and development schemes	View Document
Any additional information	View Document

5.1.4 Average percentage of students benefited by guidance for competitive examinations and career counselling offered by the institution during the last five years

Response: 53.08

5.1.4.1 Number of students benefited by guidance for competitive examinations and career counselling offered by the institution year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
745	1231	1191	911	1360

File Description	Document
Number of students benefited by guidance for competitive examinations and career counselling during the last five years	View Document
Any additional information	View Document

5.1.5 Average percentage of students benefited by Vocational Education and Training (VET) during the last five years

Response: 0

5.1.5.1 Number of students attending VET year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	0	0	0

File Description	Document
Details of of students benefited by Vocational Education and Training (VET)	View Document

5.1.6 The institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases

Response: Yes

File Description	Document
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	View Document
Details of student grievances including sexual harassment and ragging cases	View Document
Any additional information	View Document

5.2 Student Progression

5.2.1 Average percentage of placement of outgoing students during the last five years

Response: 36.91

5.2.1.1 Number of outgoing students placed year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
178	167	181	272	267

File Description	Document
Self attested list of students placed	View Document
Details of student placement during the last five years	View Document

5.2.2 Percentage of student progression to higher education (previous graduating batch)**Response:** 4.79

5.2.2.1 Number of outgoing students progressing to higher education

Response: 27

File Description	Document
Upload supporting data for student/alumni	View Document
Details of student progression to higher education	View Document

5.2.3 Average percentage of students qualifying in State/ National/ International level examinations during the last five years (eg: NET/ SLET/ GATE/ GMAT/ CAT/ GRE/ TOEFL/ Civil Services/State government examinations)**Response:** 15.1

5.2.3.1 Number of students qualifying in state/ national/ international level examinations (eg: NET/ SLET/ GATE/ GMAT/ CAT/ GRE/ TOEFL/ Civil services/ State government examinations) year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
16	25	11	7	7

5.2.3.2 Number of students appearing in state/ national/ international level examinations (eg: NET/SLET/GATE/GMAT/CAT, GRE/TOEFL/ Civil Services/State government examinations) year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
90	80	80	110	110

File Description	Document
Upload supporting data for the same	View Document
Number of students qualifying in state/ national/ international level examinations during the last five years	View Document

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) during the last five years

Response: 0

5.3.1.1 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-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	00	00	00

File Description	Document
Number of awards/medals for outstanding performance in sports/cultural activities at national/international level during the last five years	View Document
e-copies of award letters and certificates	View Document

5.3.2 Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the institution

Response:

STUDENTS COUNCIL:

Student Council is a student's welfare body formed under the Students Welfare Cell. Every class has 3 Class Representatives (CR). All the class representatives of all the branches and years, the University Representative, ladies representative, gymkhana secretary, etc are the members of the Student's Council and is headed by Dean of the Students Welfare Cell.

Every year the student's council conducts various programs and workshops for the betterment of the students.

The CRs meetings are held regularly to know problems faced by the students in the academics and take a review of the syllabus that is to be completed for every exam.

GYMKHANA COUNCIL:

Gymkhana Council is a students' body comprising of the secretaries of various sports and co-curricular activities. It is headed by the General Secretary, Gymkhana and supported by the Joint General Secretary and Ladies Representative. It consists of a total of 22 secretaries are selected through an interview process. These secretaries are responsible for organising their respective activity and guide the student participants in the University level competitions. The council comprises Gathering secretary, a student Convener of the Annual Gathering, 'Zenith'. The secretaries organise various events like National Integration day, Youth day, Birth anniversaries of National leaders, etc.

The major event of the Gymkhana is the Kalpana Chawla Trophy (KCT). KCT is the annual sports competition of our college which gives the students a chance to show their sports skills and sportsmanship.

Gymkhana Council acts as a bridge between the students and the administration.

ANTI-RAGGING COMMITTEE: The Institute also has an Anti Ragging Committee constituted according to the norms of AICTE. It consists of one student representing each hostel in the college premise. There are 3 boy's hostels and 2 girl's hostel in the institute. It is taken care that peace and order is maintained in all the hostels.

WOMEN'S GRIEVANCE COMMITTEE: The Women's Grievance Committee is formed as per the guide lines and instructions received from SGB Amravati university in order to maintain safety and security to the girls and women in the institute. The purpose of this committee is to avoid the incidence of sexual harassment. The self defence workshops, celebration of International Women's Day, Redressal of all the grievances is held in the institute every year. The committee consists of one UG students and one PG student as the students representatives.

ACADEMIC BOARD: The Academic Board is constituted in the institute as per the guidelines of UGC. There are two student representatives in the board; one each representing the UG and the PG students.

File Description	Document
Link for Additional Information	View Document

5.3.3 Average number of sports and cultural activities / competitions organised at the institution level per year

Response: 4

5.3.3.1 Number of sports and cultural activities / competitions organised at the institution level year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
4	4	4	4	4

File Description	Document
Number of sports and cultural activities / competitions organised per year	View Document
Any additional information	View Document

5.4 Alumni Engagement

5.4.1 The Alumni Association/Chapters (registered and functional) contributes significantly to the development of the institution through financial and non financial means during the last five years

Response:

Alumni association of Government College of Engineering, Amravati, was officially registered in the year 2001. Presently, there are 3345 members and association has a fixed deposit of Rs 40,47,000/- and corpus fund of Rs 1,26,000/-. The activities of association include:

1. Alumni Meet

Every year, silver jubilee batch (pass out batch completing 25 years of graduation) organizes 'Alumni Meet' to commemorate the memories of the past. The event is a rich tradition as well as heritage for the Institute with more than 200 alumni join the silver jubilee function to cherish their forgone days and alumni exchange the thoughts and experiences with each other. On the 2nd day of the alumni meet, the student's interaction program is organized in every department where current students interact with the Alumni.

2. Scholarship

Alumni Association, every year, provides scholarship to the economically weak students based on their merit. The selected students thereon receive a sum of Rs 5,000/- every year till their graduation. A total sum of Rs 85,000/- per year is awarded under this scheme, across all the branches.

3. Education adoption

The Alumni association has adopted two students by sponsoring the fees for the college which

amounts to a sum of Rs. 54,000/- per year per student till completion of their graduation. This amounts to Rs. 4,32,000/- for the entire education of adopted students.

4. Scholarship by Spandan foundation

The Spandan foundation, a subset of alumni association also awards scholarship to economically weak students since 2017-18.

5. Contribution to technical festival 'Prajwalan'

'Prajwalan' is one of the largest technical festivals in Maharashtra, conducted every year. The association makes an annual contribution of Rs. 75,000 /- as a title sponsor. Students from all over the country participate in the festival which has become the pride of the Institute.

6. Contribution to Robotic Forum and Art Club

The Alumni association contributes Rs 25,000/- per year to the Robotic forum, which conducts various technical events associated with robotics at national level. The association also contributes to the Art club GCOE, Amravati a sum of Rs 10,000/-.

7. Assistance for competitive examination

The alumni association has developed a separate library, acknowledging the need of the students in securing government services. The library contains 250 books and 3 newspapers in 2 languages for student. The library also has a facility of video lectures for competitive exams.

8. Guest lectures

The association organizes guest lectures throughout the year. Renowned alumni, eminent personality and experts in various fields address the students across the departments.

9. Welcome function

Every year, the alumni association organizes a welcome function for the 1st year students in association with GCOE, Amravati.

10. Farewell

As the journey of students takes a closure, the alumni association, every year, organizes 'Hasta La Vista' for the students passing out who are guided by the alumni, bearing in mind the struggles they have to face.

The close association of the Institute with its alumni has long been the strength of the Institute.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

5.4.2 Alumni contribution during the last five years(INR in Lakhs)

? 15 Lakhs

10Lakhs - 15 Lakhs

5 Lakhs - 10 Lakhs

2 Lakhs - 5 Lakhs

Response: 10Lakhs - 15 Lakhs

File Description	Document
Alumni association audited statements	View Document

5.4.3 Number of Alumni Association / Chapters meetings held during the last five years

Response: 8

5.4.3.1 Number of Alumni Association /Chapters meetings held year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
2	1	2	2	1

File Description	Document
Report of the event	View Document
Number of Alumni Association / Chapters meetings conducted during the last five years	View Document

NAAC

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1 The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the institution

Response:

Government College of Engineering, Amravati was established in 1964. Presently the Institute offers seven B. Tech. programs and eight M. Tech. programs along with regular (QIP and NDF) and part time Ph. D. The institute became autonomous from July 2006. The institute is affiliated to Sant Gadgebaba Amravati University, Amravati and degree is awarded by the University. The institute has successfully completed two phases of TEQIP projects undertaken by Government of India and Government of Maharashtra.

The Board of Governors (BoG) is vested with powers to frame the policies for overall development, administration, finance and academics. The BoG is supported with other statutory bodies as defined by UGC for autonomous institutes. These bodies include Academic Council (Senate), Finance Committee (FC), Building Works Committee (BWC), Academic Program Evaluation Committee (APEC), Subject Boards (BoS) and Department Faculty Board (DFB). In each of the above committees, the faculty members are nominated and are involved in decision making. BoG is very keen to see that the various programs have been designed and implemented in consultation with all the stake holders and so also with the expert guidance of faculty from IIT, NIT and industrial experts.

The curricular and extra-curricular activities of the institute are in tune with institute vision and mission. Following are the salient features.

- Motivation and encouragement to students by awarding Gold Medals and other awards for best performance.
- Availability of sufficient infrastructure to facilitate learning process such as smart class rooms, audio visual aids, modern equipment, etc.
- Organization of expert lectures, industrial visits, National Level Tech Fest 'Prajwalan', cultural fest 'Zenith', Kalpana Chawla Trophy, Mudliar Trophy, etc.

The management and administration are supportive to the staff and students in order to achieve their goals. The institute has well documented financial procedure and rules. Sufficient funds are available in the form of its own deposits, State Govt. grant (salary) and funding agencies. The institute has developed various policies in order to align institutional progress with vision and mission.

6.1.2 The institution practices decentralization and participative management

Response:

The organization has good decentralization of authorities and the overall improvements are closely monitored. The administrative, academic and financial policies are designed at the BoG level, however inputs for the policy making are derived from various stake holders namely; internal faculty, staff, students, University, Directorate of Technical Education, past students, faculty experts from other

institutes, Industries, Research Organizations etc. All the committees have been constituted as per the UGC guidelines for autonomous colleges. The committee meets regularly and the minutes of the meetings are well recorded. The committees take decision in their jurisdiction, indicates decentralization and participative management. Academic improvements are also audited by internal and external committees. Periodic feedbacks are obtained from students, parents, alumni, employers etc for enabling overall improvement of the college. The college has also framed academic rules under Autonomy. On campus placement of the students is usually 50 to 55% every year.

This college practices participative management at various levels. Various positions, namely, Dean (Planning and Administration), Dean (Academics), Dean (R&D) Dean (QA), Dean (IIIC and TPO), Dean (Students welfare), Dean (Corporate relations), Planning and evaluation committee, Gymkhana Managing Committee, Library Committee, Faculty Advisors for student activities, Coordinators, Purchase Committee, Electrical Maintenance In-charge, Water Maintenance In-charge, Hostel wardens, Rector, Security In-charge, Canteen In-charge, Heads of Departments, Grievances Committees for students, supporting staff, faculty, Women's Grievance Cell, Anti Ragging Committee, Garden Committee, Training and Placement Committee, Campus Cleaning Committee, etc. are available and working is very smooth. The BoG members are nominated by the Govt. of Maharashtra and, also few other members are invited on BoG, as per their expertise.

The case study of Dean, academics office is discussed here. All academic matters are dealt in this office. The office caters to various committees viz. DFB, BoS, APEC, Academic Council and Examination Committee. The Dean, Academics is chairman of APEC and member Secretary of Academic council. Controller of Exam (CoE) is member Secretary of Examination Committee.

The office looks after student's registration, examination, result, etc. It monitors time bound registration of students for all semesters using MIS. All the examinations viz. CT1, CT2 (from previous pattern) MSE (present pattern), ESE for Theory and Practical are conducted by Controller of Exams(CoE). The evaluation of ESE answer papers is conducted centrally. The results are declared in the form of R05, R06, R07 and R08. All these processes are assisted by faculty, staff and students through their log in.

6.2 Strategy Development and Deployment

6.2.1 Perspective/Strategic plan and Deployment documents are available in the institution

Response:

The Institute has decided the strategic goals in accordance with the Vision, Mission, quality policy and core values. The following are the broader areas activities.

- Industry Institute Interaction
- Placement, Internship and Career Guidance
- Financial Planning and Good Governance
- Physical Infrastructure
- Faculty and Staff Trainings
- Teaching Learning and Evaluation Process
- Entrepreneurship

- Financial Management
- Research Development and Innovation
- Quality Assurance
- Testing and Consultancy

The activities in each of the above areas planned and conducted during 2014-19 are given in the link here.

As an example, the implementation of strategic plan with regard to Faculty and Staff Training is discussed here. The Institute is playing the lead role in region by conducting numerous workshops, short term training programs and faculty development programs. Also, some programs are specifically conducted for supporting staff. The good response from the faculty and staff in the region is observed for these programs. The Institute has planned and conducted 19, 10, 04, 06 and 05 number of such programs, respectively, in Year 2014-15, 2015-16, 2016-17, 2017-18 and 2018-19.

File Description	Document
Any additional information	View Document
Strategic Plan and deployment documents on the website	View Document

6.2.2 Organizational structure of the institution including governing body, administrative setup, and functions of various bodies, service rules, procedures, recruitment, promotional policies as well as grievance redressal mechanism

Response:

- **Organization Structure**
- Principal Secretary of Higher and Technical Education Department, Maharashtra State
- Director, Technical Education (Maharashtra State)
- Joint Director, Technical Education, Regional Office, Amravati.
- BoG:
 - Chairman, one industry representative, one academic representative nominated by State Govt., one UGC nominee, one University nominee, Principal Secretary of Higher and Technical Education Department, Maharashtra State, and two internal faculty members and Principal as member secretary
 - Overall governance of the Institute, major policy decisions and approval to annual budget
- Academic Board (Senate): All the decisions related to academics including curriculum modifications
 - Examination Committee:
 - Principal (Chairman), All Heads, VC nominee, Director of Examination of SGB Amravati University with Institute Controller of Examination as member secretary
 - Approval to various issues related to examinations, results and award of degrees
 - Academic Program Evaluation Committee (APEC):
 - Institute level committee that includes Dean (Academic) as a chairman and BoS Chairman and Member Secretary of each program

- Approval to modification of curriculum structure and contents
- Subject Board (BoS):
 - Head (Chairman), two outside academic experts, two industry experts and two senior internal faculty and member secretary from the Department
 - Discussion and recommendation of modification of curriculum structure and contents to APEC.
- Department Faculty Board (DFB)
 - All faculty members of the Department with Head as a chairman
 - Brain storming and preparation of modifications in curriculum structure and contents, addressed to BoS
- Finance Committee
 - Principal (Chairman), two BoG members, one Chartered Accountant, Dean (Finance) and Registrar as a member secretary
 - Compilation and recommendation of institutional budget for approval to BoG
- Building Works Committee
 - Principal (Chairman),one BoG member, one Architect, PWD representative, AMC representative, I/C (Construction) and Head (Civil) as a member secretary
 - Decisions on infrastructure developments, electrical installations and budgetary provisions thereof
- Dean (Planning and Administration)
- Dean (Academic)
- Dean (Research and Development)
- Dean (Quality Assurance)
- Dean (Placement)
- Dean (Corporate Affairs)

Service rules, procedures, recruitment and promotional policies are governed by Maharashtra Civil Services Rules and government norms revised from time to time. Facility of upward movement to the higher post under time scale is available for faculty as well as technical and non-technical supporting staff. Grievance redressal committees for faculty, supporting staff, women, students and SC/ST faculty and staff are nominated and working in the institute. These committees are responsible for timely clearing of relevant cases. The link to documentary evidences of the different committees is provided herewith.

6.2.3 Implementation of e-governance in areas of operation

- 1.Planning and Development**
- 2.Administration**
- 3.Finance and Accounts**
- 4.Student Admission and Support**
- 5.Examination**

All 5 of the above

Any 4 of the above

Any 3 of the above

Any 2 of the above

Response: Any 4 of the above

File Description	Document
Screen shots of user interfaces	View Document
Details of implementation of e-governance in areas of operation Planning and Development,Administration etc	View Document

6.2.4 Effectiveness of various bodies/cells/committees is evident through minutes of meetings and implementation of their resolutions

Response:

Under autonomy, Board of Governance (BoG) is responsible for policy decisions and overall development and monitoring of the Institute. The meetings of BoG are regularly convened and minutes are meticulously prepared. The actions taken are also monitored by BoG.

The other bodies, cells and committees are also formed as explained in Metric No.6.2.2. The meetings of these bodies are conducted and minutes are documented. As an example activity of Academic Board is discussed here.

Academic board is formed with four academic experts from renowned institutes, one industry expert, the Principal, All BoS Chairman (Program Heads), one student representative and Dean (Academics) as a member secretary. The board is responsible for review and modifications in curriculum, approval to academic calendar, reforms in rules and regulations pertaining to academics, evaluation and examination, award of degrees and review and approval to special cases. The board meets, generally, two times in a year. The minutes are documented and are published on the web site. The action taken is also monitored. Some of the important decisions and actions taken therein are given in below.

- Approval for new curriculum and structure of all B.Tech. programs from academic year 2013-14
- The admission to full time Ph.D. program with monthly stipend under the grants available through TEQIP-II from academic year 2014-15
- The rules and regulations/ guidelines for above Ph.D. program with teaching assistantship
- Approval for new curriculum and structure of M.Tech. programs from academic year 2014-15
- Approval for dissertation phase-1 and seminar as a pre-requisite for dissertation phase-2 for full time M.Tech. programs from academic year 2015-16
- Approval for one make up exam for students not able to appear in CT-1, CT-2 or both from academic year 2015-16

- Major modifications in curriculum of first year B.Tech. program from academic year 2017-18

6.3 Faculty Empowerment Strategies

6.3.1 The institution has effective welfare measures for teaching and non-teaching staff

Response:

Being a Government institute, there are several schemes and facilities available for the faculty and staff as per the rules and regulations. The social & family security and support for upliftment of the faculty and staff is provided as given below.

- Pension scheme for employees recruited before 2005
- After 2005, Defined Contributory Pension Scheme (DCPS) through National Pension Scheme (NPS)
- Group Insurance Scheme (GIS).
- Accidental Insurance
- Medical claim facility for employees and their dependents
- Loan for house, car, motorcycle, computer
- festival advance of Rs. 10000 during the Diwali festival for Class III and Class IV employees .
- Leave Travel concession (LTC) once in four year in State
- Home town travel allowance once every two year
- General Provident Fund (GPF) and Advance/Loan availability through GPF
- The scheme for promotion
 - For faculty, Career Advancement Scheme (CAS)
 - For supporting staff, time scale promotion
- Deputation for upgradation of qualifications, M.Tech. and Ph.D., for faculty under Quality Improvement Program (QIP)
- Study leave for two years for other employees
- Assurance of service to the dependents of the deceased employee on compassionate grounds
- Cooperative society with contribution from the employees themselves, under which, emergency loan is available

Institute initiatives

- Grant for Patent.
- Grant for attending conference/ seminars, publishing research paper, etc.
- Sports and cultural program for faculty and staff once in a year at R. O. level.

6.3.2 Average percentage of teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the last five years

Response: 0

6.3.2.1 Number of teachers provided with financial support to attend conferences / workshops and towards

membership fee of professional bodies year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
00	00	0	0	0

File Description	Document
Details of teachers provided with financial support to attend conferences,workshops etc during the last five years	View Document

6.3.3 Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years

Response: 3.4

6.3.3.1 Total number of professional development / administrative training programs organized by the Institution for teaching and non teaching staff year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
5	1	1	8	2

File Description	Document
Details of professional development / administrative training programs organized by the Institution for teaching and non teaching staff	View Document

6.3.4 Average percentage of teachers attending professional development programs viz., Orientation Program, Refresher Course, Short Term Course, Faculty Development Program during the last five years

Response: 3.79

6.3.4.1 Total number of teachers attending professional development programs, viz., Orientation Program, Refresher Course, Short Term Course, Faculty Development Programs year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
3	5	2	5	1

File Description	Document
Details of teachers attending professional development programs during the last five years	View Document

6.3.5 Institution has Performance Appraisal System for teaching and non-teaching staff

Response:

Performance Appraisal System for Teaching Staff

Maharashtra State Government has evolved well defined performance appraisal system over the years in the form Performance Appraisal Report (PAR). This is a three stage process. Every year, at the end of March, the faculty and non-teaching staff has to submit Self-Appraisal Report indicating the tasks performed during the year, work plan and output, noteworthy works done, Theory/Practical/Seminar/Project conducted/supervised, publications, skill upgradation, etc. These aspects are evaluated by the Head of the Department as a reporting officer and then by the Principal as a reviewing officer with a proper hierarchy being followed.

The evaluation pertains to well defined three key indicators, viz., Work Completion, Personal Attributes and Efficiency, with a weightage of 30%, 40% and 30%, respectively, for teachers. For non-teaching staff the weightage for each of the above indicator is 40%, 30% and 30%. Each of these key indicators is further elaborated with different aspects for which evaluation is done on 10 point scale [**The format is enclosed**].

Based on the above weightages, overall assessment of the individual faculty and non-teaching staff is done awarding an overall gradation as given here, with figures in the bracket showing the marks achieved by the faculty/staff: A+ (9-10), A (6-8), B (3-5) and C (1-2).

Reward/Punishment System

The system of appraisal is quite transparent. Every faculty/staff is informed about his/her assessment and the hard copy of the Performance Appraisal Report is given. The faculty/staff is allowed to challenge and go on appeal against any ambiguity or injustice done. The faculty receiving grade A+ is given a special letter of appreciation, while those receiving grade C are warned to improve upon the performance.

Further, the gradation received by a faculty forms a mandatory criterion while awarding promotion under the Career Advancement Scheme (CAS) or time scale promotion. The minimum average gradation, greater than 'A', is necessary over the last 5 years period for upward movement.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

Response:

Audit (External)

The financial audit of the Institute is carried out by Accountant General (Maharashtra-2) once in two or three years. All the grants received from State Government, other agencies like AICTE, DST, fees collected and internal revenue generated are scrupulously audited. The audit committee submits its report along with the relevant findings and objections, if any to the Institute and the Director, Technical Education. The compliance of the objections raised by the auditors is given by the Institute within the framework of rules and regulations.

Audit (Internal)

After grant of autonomous status in 2006, the Institute is retaining student's tuition fee. The same is utilized for recurring and non-recurring expenditure of the Institute. The rules and regulations set by the State Government are followed by the Institute. As per the directives of Board of Governance (BoG), the internal audit is conducted at hands of renowned chartered accountant (CA), every year. The report is submitted by auditors to the Institute along with findings and objections, if any. The office then takes efforts to regularise the objections by taking necessary corrective measures and compliance. The audit report and its compliance is tabled in the Finance Committee meeting and the BoG meeting. This process is in practice since financial year 2014-15.

6.4.2 Funds / Grants received from non-government bodies, individuals, Philanthropists during the last five years (not covered in Criterion III) (INR in Lakhs)

Response: 0

6.4.2.1 Total Grants received from non-government bodies, individuals, philanthropists year-wise during the last five years (INR in Lakhs)

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	0	0	0

File Description

Document

Details of Funds / Grants received from non-government bodies during the last five years

[View Document](#)

6.4.3 Institutional strategies for mobilisation of funds and the optimal utilisation of resources

Response:

The institute became autonomous in 2006. In order to move towards self-sufficiency, the State Govt. of Maharashtra allowed to retain the fee of the students admitted in the institute. Further, the institute receives Salary Grant for teaching and supporting staff from the State Government. The separate grants are sanctioned by State Government as per the demand for construction of new facilities.

The institute receives Research and Lab development Grants as per the sanctioned research projects from agencies like AICTE, DST, etc. Apart from the above grants, the Institute also receives the grants for Faculty Development Programs from AICTE and Directorate of Technical Education. Further, the Institute has been in receipt of grants under TEQIP Phase I during 2008-12 and Phase II during 2013-17.

The institute became autonomous in 2006. In order to move towards self-sufficiency, the State Govt. of Maharashtra allowed to retain the fee of the students admitted in the institute. Further, the institute receives Salary Grant for teaching and supporting staff from the State Government. The separate grants are sanctioned by State Government as per the demand for construction of new facilities.

The institute receives Research and Lab development Grants as per the sanctioned research projects from agencies like AICTE, DST, etc. Apart from the above grants, the Institute also receives the grants for Faculty Development Programs from AICTE and Directorate of Technical Education. Further, the Institute has been in receipt of grants under TEQIP Phase I during 2008-12 and Phase II during 2013-17.

The institute also generates its internal revenue by offering testing, consultancy and continuing education program. The institute has established four funds as per the directives from the State Government namely corpus fund, staff development fund, depreciation fund and maintenance fund. Internally generated revenue is distributed in equal proportion in the above four funds.

The preparation and approval of budget of the institute is a systematic process. The departments, deans and various offices submit requisition of funds for the ensuing financial year. The draft budget is prepared based on requisition by member secretary, finance committee and Dean (Finance). The finance committee discuss the budget in detail and recommend it with necessary revision to the Board of Governance (BoG) for approval. The budget finally approved by BoG, is followed for respective Financial Year. In case of emergent supplementary demands, similar procedure is adopted.

6.5 Internal Quality Assurance System

6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes

Response:

As per the norms of NAAC, the formal Internal Quality Assurance Cell is established in the institute last year. However, prior to that as well, the quality assurance was tackled through the standardized systems. The separate Dean (Quality Assurance) is being nominated since the institute became autonomous in 2006. The Dean (Quality Assurance) is supported with faculty in-charge of different activities and Head of the Departments. The quality assurance initiatives that are addressed include:

- Accreditation by National Board of Accreditation (NBA)
- Academic Audit
- Evaluation of ESE question papers
- Curriculum Completion Monitoring
- Students Feedback (Course wise/ Faculty wise)
- Students Feedback (Systems) (infrastructure, support facilities, library, amenities, etc.)
- Introduction of Outcome Based Education
- Facilitation of training programs for faculty
- Students training
- Upgradation of curriculum

Out of the above initiatives, Academic Audit and Curriculum Completion Monitoring are described as two institutional best practices as a part of Metric 7.2.1 of this report. Accreditation by NBA and Students Feedback are taken up here.

Accreditation by NBA:

After becoming autonomous, most of the departments have undergone accreditation two to three times. Recently, two eligible UG programs in Mechanical Engineering and Civil Engineering got accreditation for three years from 2018-19. The institute has also applied for the accreditation of eligible PG programs, two in the Department of Mechanical Engineering, viz., Thermal Engineering, Production Engineering, and one in the Department of Civil Engineering, viz., Structural Engineering. The visit of the accreditation team is expected soon. Further SAR for B. Tech. (Electrical Engineering) is submitted to NBA.

The current NBA accreditation process emphasizes Outcome Based Education. Accordingly, the program outcomes are prescribed and the course outcomes are written for each course. The course and program attainment is obtained by employing standard procedure. The programs which are not accredited have also prepared the course outcomes for the respective courses offered.

Students Feedback (Course wise/ Faculty wise)

The institute has established very systematic process for recording the feedback from students pertaining to academics. Students Feedback is collected online regularly at the end of every semester in respect of each theory/practical course and faculty. The objective of the 'Student Feedback' is to assess the performance of the Teacher, Department and an Institute in terms of Faculty Index, Departmental Index and an Institute Index respectively.

The link of the screenshots of the feedback form for theory as well as practical courses is given below. Each performance parameter is graded as Outstanding(O), Excellent(E), Very Good(V), Good(G), Satisfactory(S) or Not satisfactory(N). Average percentage of students who participate in the feedback process is consistently more than 75%. In each semester, the Department wise feedback report is generated and circulated to respective Head of the Departments for information to the concerned faculty and to take up corrective action, if required.

The link for screen shots of sample feedback report is given here.

File Description	Document
Any additional information	View Document

6.5.2 The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms

Response:

Each of the initiative undertaken, as mentioned in the Metric 6.5.1 above, contribute significantly to review and upgrade the existing processes, methodologies and outcomes. The institute strictly follows the regularity, designated time slots and frequency of various activities and feedbacks spread over the academic term. Since other initiatives are explained elsewhere in this report, Introduction of Outcome Based Education and Students Feedback (Systems) are illustrated here.

Introduction of Outcome Based Education

As mentioned already, UG programs, Mechanical Engineering and Civil Engineering have gone through the strenuous process of accreditation recently and got accredited for the period of three years. Also, the visit of the accreditation team is in the offing for the three PG programs.

NBA has made it mandatory to implement Outcome Based Education framework in which the Program Outcomes are well defined. The accredited programs have already adopted the OBE process. The course outcomes are prepared for each of the courses offered by these Departments. The course attainment and program attainment is obtained by following the standard procedure mentioned in Metric 2.6.2. The institute has organized one day workshop on OBE process for all faculty in – 2018. The faculty were imparted training with regard to Bloom's taxonomy and preparation of course outcomes. Accordingly, the other departments have also formulated the course outcomes for the courses offered and are in position to adopt the OBE process.

Students Feedback (Systems)

This feedback is collected from the outgoing students at the end of eighth semester. It takes into account physical infrastructure that includes library, computational facilities, laboratories, class rooms, etc. It also deals with hostel facilities, Wi-Fi, internet facility, parking, website upkeep, and cleanliness.

This feedback points out lacunae in the existing infrastructure, support facilities and amenities. It becomes easier for administration to take corrective actions helps in improving upon the present status. The outgoing students can quite freely and openly give their feedback so that students of upcoming batches will get the required benefits.

6.5.3 Average number of quality initiatives by IQAC for promoting quality culture per year**Response:** 0.4**6.5.3.1 Number of quality initiatives by IQAC for promoting quality year-wise for the last five years**

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	0	0	2

File Description**Document**

Number of quality initiatives by IQAC per year for promoting quality culture

[View Document](#)**6.5.4 Quality assurance initiatives of the institution include**

- 1.Regular meeting of Internal Quality Assurance Cell (IQAC); timely submission of Annual Quality Assurance Report (AQAR) to NAAC; Feedback collected, analysed and used for improvements**
- 2.Academic Administrative Audit (AAA) and initiation of follow up action**
- 3.Participation in NIRF**
- 4.ISO Certification**
- 5.NBA or any other quality audit**

Any 4 of the above

Any 3 of the above

Any 2 of the above

Any 1 of the above

Response: Any 2 of the above**File Description****Document**

e-copies of the accreditations and certifications

[View Document](#)

Details of Quality assurance initiatives of the institution

[View Document](#)

6.5.5 Incremental improvements made during the preceding five years (in case of first cycle) Post accreditation quality initiatives (second and subsequent cycles)

Response:

Accreditation by NBA :

- 2008: Accreditation (after autonomy) for all seven UG programs for 3 years and one full time PG program in Electrical Power Systems.
- 2013: Six UG programs for two years and one PG program for three years
- 2018-19: Two UG programs got accreditation for 3 years. Visit awaited for three PG programs. One more UG program uploaded SAR (B.Tech. Electrical) recently

Outlook India Nationwide Survey ranking in year 2019 is 33.

STTP / FDP / Workshops conducted QIP-STTP / TEQIP 50

Recognition for full time Ph.D. program for three departments under Quality Improvement Program (QIP) and National Doctoral Fellowship (NDF) scheme of AI CTE for Ph.D., viz., Civil, Electrical and Mechanical

Participated in Phase 1 and 2 of Technical Education Quality Improvement Program (TEQIP)

Received grant of Rs. 9.4 Crore in Phase 1 and Rs. 12.5 Crore in Phase 2 of TEQIP

Participation of students at University, State and National level competitions

Awards/patents: 14

Publications of faculty: Journals + Books/Conferences = 258 + 182

Ph.D.s awarded in last five years : 22

Digitization of Library and progressive addition of books and journals

Three conferences (2 International and 1 National) conducted under TEQIP-II

Global Alumni Meet and Industry Meet organized under TEQIP-II

Applying for for NIRF ranking this year.

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1 Number of gender equity promotion programs organized by the institution during the last five years

Response: 8

7.1.1.1 Number of gender equity promotion programs organized by the institution year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
1	3	2	1	1

File Description

Document

Report of the event

[View Document](#)

List of gender equity promotion programs organized by the institution

[View Document](#)

7.1.2 Institution shows gender sensitivity in providing facilities such as

a) Safety and Security

b) Counselling

c) Common Room

Response:

The institute is taking highest possible care regarding safety and security of each and every student of the institute, especially the girl students. The institute has two girls hostel with the capacity of almost 400 students, so that the maximum numbers of girls are provided with a safe and secure environment in the institute. Every department in the institute has a common room for the girl students which are well equipped along with proper sanitary facilities.

Each Department has the separate well maintained washrooms for the girls as well as the boys. The hostels are provided with the total security in the form of guards. Every hostel is well equipped with the proper facilities of regular supply of water, electricity, Wi-Fi services, sufficient number of water coolers, proper and hygienic sanitation services. The washrooms are provided with dustbins and the sanitary disposal system.. If the students are in need of anything, have any grievances or they want to put forth their complaints or demands, they can immediately contact the wardens of the respective hostels to get their problem solved.

The Women's Grievance Committee is formed as per the guide lines and instructions received from SGB Amravati university. The purpose of this committee is to avoid the incidence of sexual harassment. The members of the Women's Grievance Committee are: a senior lady faculty as chairman, BoG

representative, lady advocate, social activist, two senior staff members and student representatives.

To ensure the safety and security, the girls are given training of self defence during every academic session of the institute. This year, two such workshops were conducted by the institute for all the girls undergoing the UG as well as the PG program. The last entry time for the girls in hostel is 7:30 pm in the evening and this rule is strictly observed by each and every student of the institute and thus the safety of the girls is ensured. In case of any sort of medical emergency, the student in need is immediately given the proper medical treatment or under severe circumstances. A MoU has been signed between the Sonone Hospital and the Institute for medical facilities.

Under this cell various programs like counselling sessions, workshops, carrier guidance programs, mental health awareness programs, guest lectures, etc. are regularly held in the institute. The main motto behind this is to bring about the gender sensitivity. An overwhelming response is always observed from the students throughout the academic year.

7.1.3 Percentage of annual power requirement of the Institution met by the renewable energy sources

Response: 0.12

7.1.3.1 Annual power requirement met by renewable energy sources (in KWH)

Response: 1

7.1.3.2 Total annual power requirement (in KWH)

Response: 811

File Description

Document

Details of power requirement of the Institution met by renewable energy sources

[View Document](#)

7.1.4 Percentage of annual lighting power requirements met through LED bulbs

Response: 65

7.1.4.1 Annual lighting power requirement met through LED bulbs (in KWH)

Response: 22.75

7.1.4.2 Annual lighting power requirement (in KWH)

Response: 35

File Description	Document
Details of lighting power requirements met through LED bulbs	View Document

7.1.5 Waste Management steps including:

- Solid waste management
- Liquid waste management
- E-waste management

Response:

Solid waste management: - The Institute has four boys hostel and two girls hostel and residential quarters for wardens along with Principal's residence. The solid waste generated from this area is collected by sweepers. The garbage other than the solid waste are also collected by housekeeping personnel. This collected waste is transported to disposal site by Amravati municipal corporation personnel.

Liquid waste management: - Proper sewerage system is provided in the campus. Sewage from residential area is collected in one septic tank and overflow from the same is drain off with the help of sewer. The wastewater is disposed off into municipal sewer line. Few M.Tech. (Environmental Engineering) projects are conducted on the treatment and management of wastewater generated in the campus.

E-waste management: - Electronic goods are put to optimum use. The irreparable electronic goods and damaged computers are written off and then sold to scrap vendor. UPS Batteries are exchanged by the suppliers. Obsolete computers are auctioned to the vendors. The electronic components and other e-waste are disposed properly.

7.1.6 Rain water harvesting structures and utilization in the campus

Response:

The old buildings constructed decades ago have no rain water harvesting in existence. However, for the recently constructed building of Electronics Department, proper arrangement of rain water collection is established and the rain water is collected in sump. This rain water is used for gardening purpose.

At present, the concept of rain water harvesting is attempted in the department of Civil engineering block wherein the rain water flow is collected in the sump attached to a well resulting in recharging of the well and efficient use of rain water.

7.1.7 Green Practices

- Students, staff using
 - a) Bicycles

- b) **Public Transport**
- c) **Pedestrian friendly roads**
 - **Plastic-free campus**
 - **Paperless office**
 - **Green landscaping with trees and plants**

Response:

The entire institute campus of 105 acres is well maintained with greenery and trees. All department and office blocks are decorated with Green landscape which is maintained by the staff appointed for this purpose. The water supply arrangement for the main garden and other gardens has been put in place so that the gardens are well maintained even during harsh summer period. The campus is well maintained and all positive efforts are made to convert it into a Plastic free zone. The students are made aware about the importance of maintaining a clean and green campus. Our students come forward and volunteer to organize the programs such as Swachh Bharath Abhiyan through NSS in the campus. Every year, NSS also organizes programs like tree plantation.

Students, staff using

a) Bicycles

b) Public Transport

c) Pedestrian friendly roads

Many of the day-scholar students and those living in the hostel use bicycles for traveling to the institute or moving out of the premises. Few teaching staff and other staff use bicycles to commute from their homes.

Public transport is available for the students and staff with the local transport bus facility. Many of the day scholar students who do not own vehicles use public transport for commute.

Plastic-free campus:

Dustbins are placed at many of the places in the campus for easy access of solid waste throw. As per the Govt. of Maharashtra decision, single-use plastic is banned and the institute have taken necessary measures to avoid use and proliferation of Plastic as far as possible.

Paperless office:

Most of the administrative and academic communications such as notices and office circulars are made through emails or Whatsapp messages. Academic calendar, exam time-tables, results, circulars and placement notices and schedules are made available to students through college website and Management Information System (MIS) software. Student's feedback is also taken online at the end of semester. Communication with corporate HR related to campus recruitment and with the passed-out students is done through email only representing paperless office.

7.1.8 Average percentage expenditure on green initiatives and waste management excluding salary component during the last five years**Response:** 2.03

7.1.8.1 Total expenditure on green initiatives and waste management excluding salary component year-wise during the last five years(INR in Lakhs)

2018-19	2017-18	2016-17	2015-16	2014-15
17.86	18.24	17.23	17.93	12.49

File Description	Document
Details of expenditure on green initiatives and waste management during the last five years	View Document

7.1.9 Differently abled (Divyangjan) Friendliness Resources available in the institution:

1. Physical facilities
2. Provision for lift
3. Ramp / Rails
4. Braille Software/facilities
5. Rest Rooms
6. Scribes for examination
7. Special skill development for differently abled students
8. Any other similar facility (Specify)

A. 7 and more of the above**B. At least 6 of the above****C. At least 4 of the above****D. At least 2 of the above****Response:** D. At least 2 of the above

File Description	Document
Resources available in the institution for Divyangjan	View Document
Any additional information	View Document

7.1.10 Number of Specific initiatives to address locational advantages and disadvantages during the last five years**Response:** 0

7.1.10.1 Number of specific initiatives to address locational advantages and disadvantages year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	0	0	0

File Description**Document**

Number of Specific initiatives to address locational advantages and disadvantages

[View Document](#)

Any additional information

[View Document](#)**7.1.11 Number of initiatives taken to engage with and contribute to local community during the last five years (Not addressed elsewhere)****Response:** 3

7.1.11.1 Number of initiatives taken to engage with and contribute to local community year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
2	1	0	0	0

7.1.12**Code of conduct handbook exists for students, teachers, governing body, administration including Vice Chancellor / Director / Principal /Officials and support staff****Response:** Yes**File Description****Document**

Any additional information

[View Document](#)

URL to Handbook on code of conduct for students and teachers , manuals and brochures on human values and professional ethics

[View Document](#)

7.1.13 Display of core values in the institution and on its website**Response:** Yes

File Description	Document
Provide URL of website that displays core values	View Document

7.1.14 The institution plans and organizes appropriate activities to increase consciousness about national identities and symbols; Fundamental Duties and Rights of Indian citizens and other constitutional obligations**Response:** Yes

File Description	Document
Details of activities organized to increase consciousness about national identities and symbols	View Document
Any additional information	View Document

7.1.15 The institution offers a course on Human Values and professional ethics**Response:** Yes

File Description	Document
Any additional information	View Document

7.1.16 The institution functioning is as per professional code of prescribed / suggested by statutory bodies / regulatory authorities for different professions**Response:** Yes

File Description	Document
Any additional information	View Document
Provide URL of supporting documents to prove institution functions as per professional code	View Document

7.1.17 Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties during the last five years**Response:** 4

7.1.17.1 Number of activities conducted for promotion of universal values (Truth, Righteous conduct,

Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
1	2	1	0	0

File Description	Document
List of activities conducted for promotion of universal values	View Document

7.1.18 Institution organizes national festivals and birth / death anniversaries of the great Indian personalities

Response:

The institute celebrates birth anniversaries of the great Indian personalities. Government of Maharashtra issue a resolution every year mentioning the names of personalities whose birth anniversaries are to be celebrated. Accordingly, the students and faculty and staff meet in the Gymkhana hall for function. On the occasion of Anti Terrorist Day (21st May), Sadbhavana Divas (20th August), National Unity Day (31st October and 19th November), the oath of respective day is taken by students, faculty and staff. On 26th November, the preamble to the *Constitution of India* is read and the oath is taken to follow the constitution of India and work for the unity. On the occasion of birth anniversary of Dr. B.R. Ambedkar, one week is celebrated by organizing various activities/events that include whole day reading, debate competition, essay competition, invite the expert to deliver the lecture on Ambedkar's thought etc. All these activities are conducted and monitored by Gymkhana. In year 208-19, on the eve of 150th birth anniversary of Mahatma Gandhi, various programs are organized as per the directive of State Government.

7.1.19 The institution maintains complete transparency in its financial, academic, administrative and auxiliary functions

Response:

The institute maintains transparency in academics, financial, administrative and auxiliary functions. Some of the initiatives are given below:

- Relevant information sought by anyone is provided under Right to Information Act
- Minutes of meetings of administrative and academic bodies are made available on the website which includes BoG, Academic Board and Finance Committee
- Mandatory disclosure as per the AICTE norms on the Institute website
- MIS software is accessible to students to view marks, grades received and final result
- The students are shown their answer books of CT1, CT2 and photocopy of answer book for ESE is made available to the interested students

- Regular internal audit through Chartered Accountant and external audit by Accountant General and Govt. of Maharashtra
- Copy of the annual Performance Appraisal Report is made available to the faculty and staff
- Grievance redressal system is in place for students, women, faculty and staff
- Student representation in Academic Board, Gymkhana – Student Council and T&P Committee, Hostel administration

7.2 Best Practices

7.2.1 Describe at least two institutional best practices (as per NAAC Format)

Response:

1. Title of the Practice: - ACADEMIC AUDIT

2. Objectives of the Practice:

- To assess the quality of teaching-learning process, performance of faculty and quantify the improvements
- To monitor the attainment of course and program outcomes
- To evaluate the quality of question papers and the assessment process
- To provide critical analysis of the academic and lab facilities

3. The Context:

- The Institute has to stand out in the competition with the peer institutes
- There is a need for validation of teaching-learning process and it's relevance in improving the employability of the graduates

4. The Practice:

- The academic audit is conducted every academic year. The audit team for each program department consists of two eminent experts who are either from academics or industry
- The audit committee visits the concerned departments and conduct assessment on the basis of a Department report and Presentation, Discussion with faculty and students and critical evaluation of relevant material/record
- The final grade is given on the basis of the score out of total 600 marks

5. Evidence of Success:

- The grading itself is an indicator of the performance of the individual program departments
- The SWOT analysis of the department is validated

6. Problems Encountered and Resources Required:

- The quality of exam question papers evaluated by the external experts for a small sample size

- Many of the important suggestions of the Audit Committee require decisive action at the highest level of administration.

1. Title of the Practice: - Meeting of Class Representatives (CR)

2. Objectives of the Practice:

- To make available a real platform for the students to air their grievances related to teaching-learning process and academic facilities
- To ensure every faculty member is performing well in academic activities
- To bring to the notice of the authorities any lacunae in the conduct of academic processes and physical facilities

3. The Context:

The institute felt the need to listen to the student issues and demands through regular interaction with the Principal and empowers them to express their views in a free environment.

4.The Practice:

The CR meetings are notified by the Prof. I/c of Student Welfare to obtain the student feedback which is then discussed in the meeting of HOD's. Suggested corrective actions are decided and time-bound implementation of the actions is mandated.

5. Evidence of Success:

The Evidence for success is seen in the efficient implementation of corrective actions and suggestions given by the student representatives like demand for *Aurdiono Kits* put forward by the students which led to the procurement of these kits by the institute.

6. Problems Encountered and Resources Required:

The problems pertain to the individual tendencies to overlook the suggestions for improvement, inhibitions in the minds of students to speak freely about the deficiencies in the teaching-learning process and lack of objectivity in the student feedback which results in a generalist approach towards their problems.

7.3 Institutional Distinctiveness

7.3.1 Describe/Explain the performance of the institution in one area distinctive to its vision, priority and thrust

Response:

Industry-Institute Interaction

The institute has chosen to present the performance in industry-institute interaction which is distinctive to its vision, priority and thrust. Industry-Institute Interaction is a collaborative effort with industries and is designed to share technology advancements, exchange of best practices, train the students and faculty in latest technologies and industry work culture and transform the graduates into professionals.

The basic philosophy for promoting industry-institute interaction as a supplement to the formal learning process of the students is the realization that they need to acquire skills from industry experts in addition to the knowledge gained by them at the institute so as to facilitate their transformation in to a professional with critical thinking, analyzing and problem solving capabilities.

The institute has initiated and successfully implemented this activity with the objective of:

- preparing its graduates who are industry ready and possess high level of employability
- bringing industry and institute at one platform
- reforming the curriculum as per the needs of industry
- exposing the students to latest technological trends
- allowing the students to learn practical skills in industry environment

These objectives were achieved through the successful conduct of activities in collaboration with partner industries, few of which can be listed as:

- signing of MoU with industries for enhancement of industry-institute interaction activities
- full-time 4-month internship for students with mentoring and supervision by industry experts
- on-boarding industry experts on the decision making bodies of institute like Board of Governors, Academic Board and Board of Studies
- Roll-out of inter-disciplinary elective course designed by industry body for seventh semester students
- Enhanced exposure to industry through deputing students for completing project work at industry under mentorship of industry experts, industry training of 2-4 weeks duration for third year students, supplementing the learning process through industry designed certifications, proctor monitored online training modules and assessments, industry sponsored technical contests and competitions, deputing faculty for faculty development programs at industries or conduct of FDP by experts from industry at the institute and interactive sessions and discussions with industry professionals, participation in industry meets for Principals, HOD's and placement officers
- Instituting industry sponsored awards for students and faculty to recognize excellence and meritorious performance

The impact of these focussed, consistent and well-designed efforts can be summarized as follows:

- Each BoS has minimum of two industry experts to put forward the industry point of view.
- The industry trend now is to allow the students to work as 'intern' for a semester before they are employed and the institute has fulfilled this requirement by bringing flexibility in the academic requirements by allowing the students to undergo 4-Month Full-Time internship at industry during their Eighth semester - (44) students completed 'Internship Program' in 2018-19 and there are plans to offer the same to (80+) students in 2019-20.
- Industry ready students with high level of employability – the institute has consistently recognized

as among the Top 10% institutes in the state in terms of employability of its graduates (*as per the analysis by a leading National level assessment agency*)

NAAC

5. CONCLUSION

Additional Information :

The vision and mission of the institute is arrived at through the participation of all the stakeholders and mentoring committees. The Program Educational Objectives for the programs offered are framed based on the vision and mission. The courses outcomes are formulated for all the courses in each of the programs and steps are underway to follow Outcome Based Education in all the programs offered.

The Institute has good record of placement of students in software as well as core companies. The UG students are encouraged to take up the industry internship in the final semester of their program, which is supposed to improve their employability.

The Institute plans to participate in National Institute Ranking Framework (NIRF) from next year. However, the ranking of the Institute is consistently good as per professionally carried out “Outlook India Survey”.

Concluding Remarks :

Government College of Engineering, Amravati completed 56 years of existence and 13 years of autonomous status. The progress has been remarkable after grant of autonomy and participation of the Institute in TEQIP-I and II. The curriculum is developed as per the professional and standard guidelines available and in tune with vision and mission of the Institute. The Institute enjoys goodwill and image in the society receiving quality student at entry. The reforms in the governance, teaching learning process, examination, evaluation are continuously made and monitored through feedback system and academic audit. The robust Management Information System (MIS) is employed right from registration to results of the students and they have access to their performance through their own log-in. The financial support is provided to the faculty and students to participate in conferences, training programs and technical contests. The highly placed alumni of the Institute have been supportive for the betterment of the students and Institute. The mandatory committees are formed as per the guidelines of UGC and regular meetings are conducted, and minutes are recorded and placed on the website. Internal Quality Assurance Cell is also established as per the norms of NAAC.

6.ANNEXURE

1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification																				
1.3.2	<p>Number of value-added courses imparting transferable and life skills offered during the last five years</p> <p>1.3.2.1. Number of value-added courses are added within the last five years Answer before DVV Verification : 01 Answer after DVV Verification: 0</p> <p>Remark : HEI provided link not operated.</p>																				
1.3.3	<p>Average percentage of students enrolled in the courses under 1.3.2 above</p> <p>1.3.3.1. Number of students enrolled in value-added courses imparting transferable and life skills offered year-wise during the last five years Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> </tr> </thead> <tbody> <tr> <td>71</td> <td>69</td> <td>72</td> <td>47</td> <td>67</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> </tbody> </table>	2018-19	2017-18	2016-17	2015-16	2014-15	71	69	72	47	67	2018-19	2017-18	2016-17	2015-16	2014-15	0	0	0	0	0
2018-19	2017-18	2016-17	2015-16	2014-15																	
71	69	72	47	67																	
2018-19	2017-18	2016-17	2015-16	2014-15																	
0	0	0	0	0																	
1.3.4	<p>Percentage of students undertaking field projects / internships</p> <p>1.3.4.1. Number of students undertaking field projects or internships Answer before DVV Verification : 146 Answer after DVV Verification: 240</p> <p>Remark : HEI input edited according to provided documents.</p>																				
1.4.2	<p>Feedback processes of the institution may be classified as follows:</p> <p>Answer before DVV Verification : B. Feedback collected, analysed and action has been taken Answer After DVV Verification: C. Feedback collected and analysed Remark : HEI input edited according to provided documents.</p>																				
2.1.1	<p>Average percentage of students from other States and Countries during the last five years</p> <p>2.1.1.1. Number of students from other states and countries year-wise during the last five years Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>6</td> <td>9</td> <td>7</td> <td>3</td> </tr> </tbody> </table>	2018-19	2017-18	2016-17	2015-16	2014-15	2	6	9	7	3										
2018-19	2017-18	2016-17	2015-16	2014-15																	
2	6	9	7	3																	

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	0	0	0

Remark : HEI input edited according to provided information.

2.1.2 Demand Ratio(Average of last five years)

2.1.2.1. Number of seats available year-wise during the last five years

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
529	529	529	529	529

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	0	0	0

Remark : HEI input edited according to provided information.

2.4.4 Percentage of full time teachers who received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the last five years

2.4.4.1. Number of full time teachers receiving awards from state /national /international level from Government recognised bodies year-wise during the last five years

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
2	1	2	2	2

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
1	0	1	0	1

2.4.5 Average percentage of full time teachers from other States against sanctioned posts during the last five years

2.4.5.1. Number of full time teachers from other states year-wise during the last five years

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	0	1	1

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	0	0	0

Remark : HEI input edited according to provided information.

3.2.1 Grants for research projects sponsored by the non-government sources such as industry, corporate houses, international bodies, endowments, Chairs in the institution during the last five years (INR in Lakhs)

3.2.1.1. Total Grants for research projects sponsored by the non-government sources such as industry, corporate houses, international bodies, endowments, Chairs in the institution year-wise during the last five years (INR in Lakhs)

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	0	1.5	72.6

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	0	1.5	32.12

Remark : HEI input edited according to provided documents. Assessment year of data to be consider.

3.2.3 Percentage of teachers recognised as research guides

3.2.3.1. **Number of teachers recognised as research guides**

Answer before DVV Verification : 26

Answer after DVV Verification: 1

3.2.3.2. Number of full time teachers worked in the institution during the last 5 years

Answer before DVV Verification : 83

Answer after DVV Verification: 81

Remark : HEI provided link is not functioning

3.3.2 Number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry - Academia Innovative practices during the last five years

3.3.2.1. Number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices year-wise during the last five years

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15

0	0	0	01	01
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Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	1	0	0

3.3.3 Number of awards for innovation won by institution/ teachers/ research scholars/students during the last five years

3.3.3.1. Total number of awards for innovation won by institution/teachers/research scholars/students year-wise during the last five years

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
0	05	01	0	0

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
0	00	0	0	0

Remark : DVV not consider certificate of participation. HEI provided link is not functioning

3.4.4 Number of Ph.D.s awarded per teacher during the last five years

3.4.4.1. How many Ph.Ds are awarded within last 5 years

Answer before DVV Verification : 22

Answer after DVV Verification: 0

3.4.4.2. Total number of teachers recognised as guides during the last 5 years

Answer before DVV Verification : 26

Answer after DVV Verification: 0

Remark : HEI provided link is not functioning

3.4.5 Number of research papers per teacher in the Journals notified on UGC website during the last five years

3.4.5.1. Number of research papers in the Journals notified on UGC website during the last five years

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
10	21	52	59	111

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
2	6	3	4	2

Remark : HEI input edited according to provided documents.

3.4.6 Number of books and chapters in edited volumes / books published, and papers in national/international conference-proceedings per teacher during the last five years

3.4.6.1. Total number of books and chapters in edited volumes / books published, and papers in national/international conference-proceedings year-wise during the last five years

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
13	25	26	31	57

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
13	25	26	31	34

Remark : HEI input edited according to provided documents.

3.6.3 Number of extension and outreach Programs conducted in collaboration with Industry, Community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the last five years

3.6.3.1. Number of extension and outreach Programs conducted in collaboration with Industry, Community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year-wise during the last five years

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
1	2	5	3	1

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	0	0	7

Remark : HEI input edited according to provided documents.

3.6.4 Average percentage of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the last five years

3.6.4.1. Total number of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. year-wise during the last five years

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
62	65	78	72	280

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	0	0	280

Remark : HEI input edited according to provided documents.

3.7.1 Number of Collaborative activities for research, faculty exchange, student exchange per year

3.7.1.1. Total number of Collaborative activities for research, faculty exchange, student exchange year-wise during the last five years

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
0	2	1	0	0

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
0	2	0	0	0

Remark : HEI input edited according to provided documents.

3.7.3 Number of functional MoUs with institutions of National/ International importance, Other Institutions, Industries, Corporate houses etc., during the last five years (only functional MoUs with ongoing activities to be considered)

3.7.3.1. Number of functional MoUs with institutions of national, international importance, other universities, industries, corporate houses etc. year-wise during the last five years (only functional MoUs with ongoing activities to be considered)

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
28	5	1	0	0

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15

1	0	0	0	3
---	---	---	---	---

Remark : HEI input edited according to provided documents.

4.2.3	<p>Does the institution have the following</p> <ol style="list-style-type: none"> 1. e-journals 2. e-ShodhSindhu 3. Shodhganga Membership 4. e-books 5. Databases <p>Answer before DVV Verification : Any 4 of the above Answer After DVV Verification: Any 3 of the above</p>										
4.2.5	<p>Availability of remote access to e-resources of the library</p> <p>Answer before DVV Verification : Yes Answer After DVV Verification: No</p>										
5.1.3	<p>Number of capability enhancement and development schemes –</p> <ol style="list-style-type: none"> 1. Guidance for competitive examinations 2. Career Counselling 3. Soft skill development 4. Remedial coaching 5. Language lab 6. Bridge courses 7. Yoga and Meditation 8. Personal Counselling <p>Answer before DVV Verification : Any 5 of the above Answer After DVV Verification: Any 4 of the above</p>										
5.2.2	<p>Percentage of student progression to higher education (previous graduating batch)</p> <p>5.2.2.1. Number of outgoing students progressing to higher education Answer before DVV Verification : 44 Answer after DVV Verification: 27</p>										
5.2.3	<p>Average percentage of students qualifying in State/ National/ International level examinations during the last five years (eg: NET/ SLET/ GATE/ GMAT/ CAT/ GRE/ TOEFL/ Civil Services/State government examinations)</p> <p>5.2.3.1. Number of students qualifying in state/ national/ international level examinations (eg: NET/ SLET/ GATE/ GMAT/ CAT/ GRE/ TOEFL/ Civil services/ State government examinations) year-wise during the last five years Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> </tr> </thead> <tbody> <tr> <td>30</td> <td>51</td> <td>28</td> <td>34</td> <td>37</td> </tr> </tbody> </table>	2018-19	2017-18	2016-17	2015-16	2014-15	30	51	28	34	37
2018-19	2017-18	2016-17	2015-16	2014-15							
30	51	28	34	37							

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
16	25	11	7	7

5.2.3.2. Number of students appearing in state/ national/ international level examinations (eg: NET/SLET/GATE/GMAT/CAT, GRE/TOEFL/ Civil Services/State government examinations) year-wise during the last five years

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15

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) during the last five years

5.3.1.1. 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-wise during the last five years

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
6	6	2	5	6

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	00	00	00

Remark : HEI provided documents showing error i.e. failed to reload. DVV consider same input at time of deviation.

5.3.3 Average number of sports and cultural activities / competitions organised at the institution level per year

5.3.3.1. Number of sports and cultural activities / competitions organised at the institution level year-wise during the last five years

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
75	73	71	75	69

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
4	4	4	4	4

5.4.3	<p>Number of Alumni Association / Chapters meetings held during the last five years</p> <p>5.4.3.1. Number of Alumni Association /Chapters meetings held year-wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1" data-bbox="304 347 1046 483"> <thead> <tr> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> </tr> </thead> <tbody> <tr> <td>9</td> <td>6</td> <td>8</td> <td>5</td> <td>2</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1" data-bbox="304 562 1046 698"> <thead> <tr> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>1</td> <td>2</td> <td>2</td> <td>1</td> </tr> </tbody> </table> <p>Remark : HEI input edited according to provided documents.</p>	2018-19	2017-18	2016-17	2015-16	2014-15	9	6	8	5	2	2018-19	2017-18	2016-17	2015-16	2014-15	2	1	2	2	1
2018-19	2017-18	2016-17	2015-16	2014-15																	
9	6	8	5	2																	
2018-19	2017-18	2016-17	2015-16	2014-15																	
2	1	2	2	1																	
6.3.2	<p>Average percentage of teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the last five years</p> <p>6.3.2.1. Number of teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies year-wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1" data-bbox="304 1055 1046 1191"> <thead> <tr> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> </tr> </thead> <tbody> <tr> <td>00</td> <td>11</td> <td>06</td> <td>04</td> <td>13</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1" data-bbox="304 1270 1046 1406"> <thead> <tr> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> </tr> </thead> <tbody> <tr> <td>00</td> <td>00</td> <td>0</td> <td>0</td> <td>0</td> </tr> </tbody> </table> <p>Remark : DVV required documents not provide by HEI. E-copy of letter/s indicating financial assistance to teachers not provide HEI.</p>	2018-19	2017-18	2016-17	2015-16	2014-15	00	11	06	04	13	2018-19	2017-18	2016-17	2015-16	2014-15	00	00	0	0	0
2018-19	2017-18	2016-17	2015-16	2014-15																	
00	11	06	04	13																	
2018-19	2017-18	2016-17	2015-16	2014-15																	
00	00	0	0	0																	
6.3.3	<p>Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years</p> <p>6.3.3.1. Total number of professional development / administrative training programs organized by the Institution for teaching and non teaching staff year-wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1" data-bbox="304 1798 1046 1935"> <thead> <tr> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>1</td> <td>6</td> <td>8</td> <td>6</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1" data-bbox="304 2013 1046 2092"> <thead> <tr> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	2018-19	2017-18	2016-17	2015-16	2014-15	3	1	6	8	6	2018-19	2017-18	2016-17	2015-16	2014-15					
2018-19	2017-18	2016-17	2015-16	2014-15																	
3	1	6	8	6																	
2018-19	2017-18	2016-17	2015-16	2014-15																	

5	1	1	8	2
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Remark : HEI input edited according to provided documents.

6.3.4 Average percentage of teachers attending professional development programs viz., Orientation Program, Refresher Course, Short Term Course, Faculty Development Program during the last five years

6.3.4.1. Total number of teachers attending professional development programs, viz., Orientation Program, Refresher Course, Short Term Course, Faculty Development Programs year-wise during the last five years

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
52	45	36	25	40

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
3	5	2	5	1

Remark : HEI input edited according to provided documents.

6.4.2 Funds / Grants received from non-government bodies, individuals, Philanthropists during the last five years (not covered in Criterion III) (INR in Lakhs)

6.4.2.1. Total Grants received from non-government bodies, individuals, philanthropists year-wise during the last five years (INR in Lakhs)

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
12	10	11	09	14

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	0	0	0

Remark : DVV required documents not provide by HEI hence input edited to zero.

6.5.3 Average number of quality initiatives by IQAC for promoting quality culture per year

6.5.3.1. Number of quality initiatives by IQAC for promoting quality year-wise for the last five years

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15

7	6	4	4	4
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Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	0	0	2

Remark : HEI input edited according to provided documents.

6.5.4 Quality assurance initiatives of the institution include

1. Regular meeting of Internal Quality Assurance Cell (IQAC); timely submission of Annual Quality Assurance Report (AQAR) to NAAC; Feedback collected, analysed and used for improvements
2. Academic Administrative Audit (AAA) and initiation of follow up action
3. Participation in NIRF
4. ISO Certification
5. NBA or any other quality audit

Answer before DVV Verification : Any 3 of the above

Answer After DVV Verification: Any 2 of the above

Remark : HEI input edited according to provided documents.

7.1.1 Number of gender equity promotion programs organized by the institution during the last five years

7.1.1.1. Number of gender equity promotion programs organized by the institution year-wise during the last five years

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
01	03	02	01	01

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
1	3	2	1	1

7.1.10 Number of Specific initiatives to address locational advantages and disadvantages during the last five years 7.1.10.1. Number of specific initiatives to address locational advantages and disadvantages year-wise during the last five years

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
25	17	14	09	18

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	0	0	0

Remark : DVV required documents not provide by HEI hence input edited to zero.

7.1.11 Number of initiatives taken to engage with and contribute to local community during the last five years (Not addressed elsewhere)

7.1.11.1. Number of initiatives taken to engage with and contribute to local community year-wise during the last five years

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
04	02	02	03	02

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
2	1	0	0	0

Remark : HEI input edited according to provided documents. NSS/NCC program not to be consider here.

7.1.17 Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties during the last five years

7.1.17.1. Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties year-wise during the last five years

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
0	13	9	1	1

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
1	2	1	0	0

Remark : HEI input edited according to provided documents.

2.Extended Profile Deviations

ID	Extended Questions																				
1.1	<p>Number of courses in all programs year-wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> </tr> </thead> <tbody> <tr> <td>453</td> <td>453</td> <td>453</td> <td>453</td> <td>453</td> </tr> </tbody> </table> <p>Answer After DVV Verification:</p> <table border="1"> <thead> <tr> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> </tr> </thead> <tbody> <tr> <td>608</td> <td>608</td> <td>608</td> <td>608</td> <td>608</td> </tr> </tbody> </table>	2018-19	2017-18	2016-17	2015-16	2014-15	453	453	453	453	453	2018-19	2017-18	2016-17	2015-16	2014-15	608	608	608	608	608
2018-19	2017-18	2016-17	2015-16	2014-15																	
453	453	453	453	453																	
2018-19	2017-18	2016-17	2015-16	2014-15																	
608	608	608	608	608																	
2.1	<p>Number of eligible applications received for admissions to all the programs year-wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> </tr> </thead> <tbody> <tr> <td>2000</td> <td>2000</td> <td>2000</td> <td>2000</td> <td>2000</td> </tr> </tbody> </table> <p>Answer After DVV Verification:</p> <table border="1"> <thead> <tr> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> </tr> </thead> <tbody> <tr> <td>590</td> <td>590</td> <td>590</td> <td>590</td> <td>590</td> </tr> </tbody> </table>	2018-19	2017-18	2016-17	2015-16	2014-15	2000	2000	2000	2000	2000	2018-19	2017-18	2016-17	2015-16	2014-15	590	590	590	590	590
2018-19	2017-18	2016-17	2015-16	2014-15																	
2000	2000	2000	2000	2000																	
2018-19	2017-18	2016-17	2015-16	2014-15																	
590	590	590	590	590																	