

SELF STUDY REPORT

FOR

1st CYCLE OF ACCREDITATION

**DR. RAJENDRA GODE INSTITUTE OF TECHNOLOGY
AND RESEARCH**

UNIVERSITY - MARDI ROAD AMRAVATI.

444602

www.gita.ac.in

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

(Draft)

1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Indira Bahuuddeshiya Shikshan Sanstha, Buldana (IBSS), established in 1986, incepted Dr. Rajendra Gode Institute of Technology and Research (DRGITR), Amravati under the dynamic leadership of Founder President Late Dr. Rajendraji Gode (Former Minister of state, Home and Industry, GoM), in 2008 for providing education in the field of Engineering and Technology.

Due to seamless efforts of management and staff, the institute has earned the status of leading educational trust in Vidarbha region: dedicated to the cause of education to masses. IBSS have 21 institutions flourishing in Amravati and Buldana districts which includes Engineering, Medicine, Nursing, Agriculture, Arts, Commerce & Science and Pharmacy etc.

DRGITR is continuously focusing towards achieving its vision and mission by emphasizing research oriented and more practical education. The institute has achieved phenomenal growth in academics and research within short span of time. The institute has started a first of its kind, Techknowvista Incubation center in the region to explore the acumen of research and entrepreneurship.

The institute provides education in Engineering streams of UG courses like Civil, Mechanical, Electronics & Telecommunication and Computer Science & Engineering alongwith PG specialization courses like Transportation, Thermal, Computer Science & Engineering and Electronics & Telecommunication. The lush green campus with spread lawns, trees, sprawls in 7.5 acres of land in a serene pollution free location at the foothills of Ghatkhed away from the hustle and bustle of the city, yet excellently connected to it. The institute has a *Wi-Fi* campus with OFC backbone and green source of solar energy.

Vision

To be the flagship of universally acceptable new ideas and innovations.

Mission

To provide synergic environment to flourish new ideas and creativity and to nurture disciplined thinktank leaders and competent human resources in science and technology to confront global challenges.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

Strengths:

- **Geographical location of the institute**
- **Renowned status of affiliating University**
- **State of Art infrastructural facilities**
- **Good number of patents published**
- **Qualified and sufficient number of faculty members**
- **Tecknowvista incubation center**
- **Conducive environment for overall development of students**
- **Vibrant Training and Placement cell**
- **Decentralized governance system**
- **Active involvement of faculty in TG Scheme for continuous monitoring of students**
- **Active involvement of students in curricular and co-curricular activities**
- **Excellent sports and cultural facilities to support student participation in extracurricular activities**
- **Wi-Fi Campus**
- **Excellent Medical facility in the campus**
- **Eco-friendly green campus**
- **Remarkable representation of faculty on professional Bodies &**

Affiliating University

- **Regular organization of International conference and technical events**
- **Financial support to needy students**
- **Proactive faculty dedicated to development of the institute**

Institutional Weakness

Weaknesses:

- **Admitted students are of low merit**
- **Professional and communication skills of the admitted students are not up to the mark**
- **Less number of consultancy projects**
- **Less number of faculty in higher cadre**
- **Low percentage of on Campus placements**
- **Being only 5 years old, the alumni of the institute has not received significant recognition from the society**
- **Under qualified supporting staff**

Institutional Opportunity

Opportunities:

- **Establishing the brand of institute in the society**
- **Opportunity for faculty to upgrade qualification**

- **Facilitating the young and motivated teachers & students to explore their research capability through incubation center.**

Institutional Challenge

Challenges:

- **Attracting meritorious students**
- **Attracting and retaining faculty of higher cadre**
- **Improvement in campus placement**
- **Increase in producing number of entrepreneurs**
- **Student progression to higher studies in reputed institutes**

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

- The institute ensures quality by formulating a system to meet the challenges by emphasizing on research based practical implementations as focused in Vision, Mission and quality objectives.
- The curriculum meets the standards as prescribed by AICTE and industries.
- The institute is affiliated to SGBAU, Amravati which allows revising syllabus after specific duration to meet the needs of industry, research and society.
- The Board of Studies (BoS) of SGBAU for each programme comprise of academicians, eminent scientists and industry professionals.
- The scheme prescribed by SGBAU is adopted to ensure the effective implementation of curriculum.
- The gap between industry and academia is bridged by identifying the value addition courses to deliver during the sessions after interacting with industry and alumni working at various industries to enhance students' employability potential.
- Industries are identified to technically sponsor the major projects of students to enhance research acumen.
- A student feedback mechanism is developed to assess and improve the effectiveness of classroom teaching.

Teaching-learning and Evaluation

- The centralized admission process is conducted by Directorate of Technical Education, Maharashtra for

admitting students at entry level of First Year or Direct Second Year at institute.

- Higher classes admissions are governed by the norms prescribed by affiliating SGBAU, Amravati.
- Academic calendar is prepared in align with SGBAU academic calendar before the commencement of session.
- A well defined teaching learning process is adopted at institute which includes subject allotment to the teacher, preferably with their choice, before the commencement of the session based on the toughness of subject and qualification and experience of teachers.
- Teaching plan is prepared by the subject teachers to ensure timely execution and completion of syllabus. The sessional examinations are conducted as per SGBAU prescribed scheme.
- The continuous internal evaluation process of institute is implemented as per AICTE guidelines. Some of experiments are changed and conducted every year as per curriculum.
- Level of attainment of POs, PSOs and COs is calculated on the basis of University result of respective student.
- Teacher guardians help the students to improve academic performance through personal counseling .

Research, Innovations and Extension

- The Institute emphasizes the requisite skills, knowledge and research aptitude, to cater the needs of the society with the right values and ethics which will shape rewarding careers of the students who will serve the society.
- Teachers and students have published research articles in reputed conferences and indexed journals.
- Teachers are sent to participate in STTPs, workshops and seminars.
- Students are encouraged to enhance their research attitude by sending them to participate in different technical events.
- An in-house research center for nurturing the innovative ideas is established named “Technowvista Incubation Center (TIC)” in the institute.
- **TIC provides consultancy to the industries and individuals for feasible solutions.**
- **A concept of Mega Super Computer working on ternary logic is invented at Technowvista Incubation Center, whose international patent was sought.**
- **Patents are granted to teachers in the institute.**
- **Teachers and students have published patents for their research work.**
- TIC is in process of collaborating with SGBAU and other industrial organizations.
- To promote research amongst the teachers and students, international conferences and national technical festivals are organized.

Infrastructure and Learning Resources

- Lush green campus with landscaped lawns surrounded with trees provides pollution free environment catalyze students for better education.
- The infrastructure is built as per AICTE norms catering separate departments equipped with electrical and IT facilities.
- Separate parking space, play ground, cafeteria and potable water is available in the campus.
- Transport facility is available for staff and students in the campus.
- Centralised computing facility is accessed from every department through LAN connectivity, Internet and WIFI facility.
- Spacious library with rich collection of books, journals, magazines, e-books and e- journals is

available.

- PCs with Multimedia facility are employed to access e-learning material.
- The institute has a mechanism for periodical maintenance of all equipments and facilities provided all across the campus.

Student Support and Progression

- Students are supported for various non academic issues like women harassment, ragging and grievance redressal with the formation of different committees as per AICTE norms.
- The institute provides support to all socially and economically weaker sections among the admitted students by extending all welfare schemes initiated by State Government of Maharashtra.
- The institute offers Dr. Rajendra Gode foundation scholarship to needy students and spreads awareness about the scholarships offered by different industries and Non Government Organizations (NGOs).
- The institute organizes seminars from experts to inculcate entrepreneurial skills among the students.
- The training and Placement Cell of the institute organizes bridge courses and soft skill development programmes for the students to enhance their employability potential.
- The training and Placement Cell of the institute organizes campus placement programmes.
- Students active participation in sports and extracurricular activities is facilitated through student forums like CESA, Students Representative Council etc. and it has fetched national and international awards in sports and cultural activities.
- Regular Alumni meets are conducted under Alumni association of institute.
- Registration of Alumni Association at office of Charity commissioner, Government of Maharashtra is in process.

Governance, Leadership and Management

- The leadership of the institute believes in participative management and strives to bring in excellence by structured organizational system with the involvement of all the stakeholders.
- Well-defined perspective plan of institute identifying thrust areas has been prepared. Various committees are formulated for effective implementation for achieving goals as stated in Vision and Mission.
- Regular feedback is collected from stakeholders to improve the overall performance of the institute.
- The academic and administrative activities within department are executed and monitored by the respective heads for excellence.
- The teacher is supported to publish their research work and also to publish patents.
- The faculties are also encouraged to participate in STTPs, Seminars, Workshops and Conferences.
- Being a self-financed institution, funds are mobilised through receipts of fees from students and scholarships through various Government agencies.
- Budget allocation is approved by Local Managing Committee and accordingly the expenditures are managed.
- IQAC is formulated to identify, monitor, review and implement to achieve the quality objectives.

Institutional Values and Best Practices

- Institute gives utmost priority to the perseverance and maintenance of dignity, respect and safety of girl

students, lady teaching and non teaching staff on the campus.

- Institute has constituted a committee and mechanism to resolve the issues of harassment and gender violation cases reported.
- Institute promotes the activities which focus on moral, etiquettes, culture and human values.
- Institute emphasizes to adopt green practices to encounter the issues like cleanliness, carbon neutrality, waste management and water & energy conservation.
- Teacher guardians help the students to overcome stress related non academic issues.
- Welfare schemes are implemented for financial and academic empowerment of teachers.
- To imbibe the sense of responsible citizenship, students are involved in different social outreach activities engaging local community.
- In context to distinctive vision for new ideas and innovation in technology, Institute organizes an International Conference and National Level technical festival for the students.

NAAC

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	Dr. Rajendra Gode Institute of Technology and Research
Address	UNIVERSITY - MARDI ROAD AMRAVATI.
City	Amravati
State	Maharashtra
Pin	444602
Website	www.gita.ac.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	DR. PRAMOD B. PATIL	0721-2160625	7720002401	0721-2970275	principal_coe@rediffmail.com
IQAC Coordinator	DR.MANOJ R. VYAWAHARE	0721-2970347	7507955888	0721-2160617	m.r.vyawahare@gmail.com

Status of the Institution	
Institution Status	Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	No

Establishment Details	
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Date of establishment of the college	28-06-2008			
University to which the college is affiliated/ or which governs the college (if it is a constituent college)				
State	University name		Document	
Maharashtra	Sant Gadge Baba Amravati University		View Document	
Details of UGC recognition				
Under Section			Date	
2f of UGC				
12B of UGC				
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	10-04-2017	12	

Details of autonomy	
Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?	No

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	UNIVERSITY - MARDI ROAD AMRAVATI.	Rural	7.5	13905.82

2.2 ACADEMIC INFORMATION

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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	BE,Civil Engineering	48	H S C AND MHCET	English	120	83
UG	BE,Mechanical Engineering	48	H S C AND MHCET	English	120	37
UG	BE,Electronics And Telecommunication Engineering	48	H S C AND MHCET	English	60	9
UG	BE,Computer Science And Engineering	48	HSC AND MHCET	English	60	22
PG	ME,Civil Engineering	24	B. E. OR B. TECH	English	24	19
PG	ME,Mechanical Engineering	24	B. E. OR B. TECH	English	24	7
PG	ME,Electronics And Telecommunication Engineering	24	B. E. OR B. TECH	English	24	5
PG	ME,Computer Science And Engineering	24	B. E. OR B. TECH	English	24	6

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	15				30				91			
Recruited	4	0	0	4	2	0	0	2	28	7	0	35
Yet to Recruit	11				28				56			
Sanctioned by the Management/Society or Other Authorized Bodies	0				0				44			
Recruited	0	0	0	0	0	0	0	0	38	6	0	44
Yet to Recruit	0				0				0			

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				44
Recruited	39	5	0	44
Yet to Recruit				0

Technical Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				18
Recruited	16	2	0	18
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.	4	0	0	1	0	0	1	0	0	6
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	1	0	0	27	7	0	35

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	38	6	0	44

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	0	0	0	0

Details of Visting/Guest Faculties					
Number of Visiting/Guest Faculty engaged with the college?	Male		Female		Total
	0	0	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
UG	Male	930	0	0	0	930
	Female	250	0	0	0	250
	Others	0	0	0	0	0
PG	Male	39	0	0	0	39
	Female	28	0	0	0	28
	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	65	46	55	63
	Female	29	7	12	20
	Others	0	0	0	0
ST	Male	7	1	2	2
	Female	2	1	0	2
	Others	0	0	0	0
OBC	Male	74	127	225	148
	Female	58	30	60	91
	Others	0	0	0	0
General	Male	135	26	59	204
	Female	45	3	11	18
	Others	0	0	0	0
Others	Male	44	32	26	65
	Female	8	4	7	11
	Others	0	0	0	0
Total		467	277	457	624

3. Extended Profile

3.1 Programme

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

Response : 195

Number of self-financed Programmes offered by college

Response : 8

Number of new programmes introduced in the college during the last five years

Response : 6

3.2 Student

Number of students year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
1371	1239	1452	1505	1452

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

2016-17	2015-16	2014-15	2013-14	2012-13
287	432	432	402	347

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

2016-17	2015-16	2014-15	2013-14	2012-13
483	420	349	269	315

Total number of outgoing / final year students

Response : 1836

3.3 Academic

Number of teachers year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
94	90	104	110	92

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

2016-17	2015-16	2014-15	2013-14	2012-13
94	90	104	110	92

Number of sanctioned posts year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
172	167	165	111	92

Total experience of full-time teachers**Response : 473.33****Number of teachers recognized as guides during the last five years****Response : 5****Number of full time teachers worked in the institution during the last 5 years****Response : 178****3.4 Institution****Total number of classrooms and seminar halls****Response : 37****Total Expenditure excluding salary year wise during the last five years (INR in Lakhs)**

2016-17	2015-16	2014-15	2013-14	2012-13
489	463	415	331	336

Number of computers

Response : 386

Unit cost of education including the salary component(INR in Lakhs)

Response : 1.23308

Unit cost of education excluding the salary component(INR in Lakhs)

Response : 0.35689



4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

1.1.1 The institution ensures effective curriculum delivery through a well planned and documented process

Response:

The institute follows a very systematic approach to ensure that the curriculum is delivered efficiently and innovatively.

The institute follows the curriculum prescribed by Sant Gadge Baba Amravati University. The University prescribes the syllabus which specifies the number of lectures, list of recommended books and assessment scheme of internal and external marks.

The academic calendar is prepared in line with the academic calendar prescribed by the University. The academic calendar is circulated among staff and students before commencement of each semester. Allocation of the subjects to the faculty is done by HoD based on qualification of the faculty, area of specialization, experience and their willingness. The Academic coordinator of each department then prepares Departmental Time Table in consultation with Head of the Department. Every faculty member prepares a teaching plan of entire semester in-line with the department's academic calendar and Time Table well in advance of the commencement of the semester.

Course files are available with all teachers which include:

- Syllabus with textbooks and reference books
- Academic Calendar
- Time Table
- Course objectives
- Teaching plan
- Question bank and assignment bank
- University question papers with solutions
- Power point presentations
- List of Experiments
- Laboratory Manuals

During the semester, lecture implementation is regularly monitored by the academic coordinator, HoD as well as Principal. Monthly review of the curriculum progress is taken by HoD.

The number of lectures planned and the number of lectures actually conducted facilitates the identification of gaps. Extra lectures are conducted for filling the gap.

The evaluation of students' progress is done through period assessments which are documented by the subject teachers.

Efforts are taken to make the teaching- learning process more and more effective through Periodic departmental meetings, Student-Faculty meetings, student counselling sessions.

Special Learning opportunities are made available through study tours, visits and sessions by Resource Persons, Workshops / Seminars / Conferences / Competitions organized both within the campus and organized by other Colleges.

Oral and Written Feedback is obtained from students periodically for each subject in order to ascertain the Quality of Curriculum delivery and incorporate workable suggestions of students.

Every student is allotted a faculty member as the Teacher Guardian who mentors the student throughout the session. The Teacher guardian closely monitors the academic and emotional behavior.

There is a mechanism to handle slow and fast learners in different ways. Remedial sessions are conducted in addition to their regular classes for students who need extra attention.

The library has a rich collection of textbooks, reference books along with a collection of various e-books, scientific journals and NPTEL data.

The institute has a book bank facility for the student wherein the fast learners can have additional books from the library beyond the quota.

The campuses of the College is Wi-Fi enabled and have sufficient computers to facilitate ICT support teaching.

1.1.2 Number of certificate/diploma program introduced during the last five years

Response: 0

1.1.2.1 Number of certificate/diploma programs introduced year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
0	0	0	0	0

File Description	Document
Details of the certificate/Diploma programs	View Document

1.1.3 Percentage of participation of full time teachers in various bodies of the Universities/ Autonomous Colleges/ Other Colleges, such as BoS and Academic Council during the last five years

Response: 2.68

1.1.3.1 Number of teachers participating in various bodies of the Institution, such as BoS and Academic

Council year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
3	3	3	2	2

File Description	Document
Details of participation of teachers in various bodies	View Document

1.2 Academic Flexibility

1.2.1 Percentage of new courses introduced of the total number of courses across all programs offered during the last five years

Response: 15.9

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

Response: 31

File Description	Document
Details of the new courses introduced	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 programs in which CBCS/ Elective course system implemented.

Response: 8

File Description	Document
Name of the programs in which CBCS is implemented	View Document

1.2.3 Average percentage of students enrolled in subject related Certificate/ Diploma programs/Add-on programs as against the total number of students during the last five years

Response: 0

1.2.3.1 Number of students enrolled in subject related Certificate or Diploma or Add-on programs year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
0	0	0	0	0

File Description	Document
Details of the students enrolled in Subjects related to certificate/Diploma/Add-on programs	View Document

1.3 Curriculum Enrichment

1.3.1 Institution integrates cross- cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum

Response:

Being a technical curricula, the cross cutting issues like Gender, Environment and Sustainability, Human values & Professional ethics etc. have limited scope to integrate.

Gender:

The women empowerment is a key issue in today's world. Equal opportunities are given to both the genders in terms of admissions, employment, training programmes, sports activities etc. Girls and boys participate in various co-curricular activities such as paper presentations, organization of paper contests, group discussions and technical quiz programmes. To sensitize and bring awareness about gender issues, faculty members are continuously made aware by the discussion and meetings in the department

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

List of Core courses related to professional ethics and Environment and Sustainability common to all programmes

1. Environmental Studies: II Yr Civil Engineering, Mechanical Engineering, Electronics and Telecommunication Engineering, Computer Science and Engineering

2. Communication Skills: III Yr Civil Engineering, Mechanical Engineering, Electronics and Telecommunication Engineering, Computer Science and Engineering

List of core courses related to ethics in different programs

Civil Engineering

1. Reinforced Cement Concrete-I-4CE05
2. Reinforced Cement Concrete-II-5CE01
3. Building Planning and CAD-5CE03
4. Structural Design –I-6CE02
5. Structural Design –II-7CE03

Mechanical Engineering

1. Machine Design and Drawing-I-4ME05
2. Machine Design and Drawing-II-7ME01

Electronics & Telecommunication Engineering

Industrial Management & Quality Control: 4XT04

Computer Science & Engineering

Professional Ethics-6KS06

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

Response: 13

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

Response: 13

File Description	Document
Details of the value-added courses imparting transferable and life skills	View Document

1.3.3 Percentage of students undertaking field projects / internships

Response: 1.92

1.3.3.1 Number of students undertaking field projects or internships

Response: 24

File Description	Document
Institutional data in prescribed format	View Document

1.4 Feedback System

<p>1.4.1 Structured feedback on curriculum obtained 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 the above</p> <p>B.Any 3 of the above</p> <p>C. Any 2 of the above</p> <p>D. Any 1 of the above</p> <p>Response: A.Any 4 of the above</p>	
File Description	Document
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management	View Document
URL for stakeholder feedback report	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: A. Feedback collected, analysed and action taken and feedback available on website</p>	
File Description	Document
URL for feedback report	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: 0.01

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

2016-17	2015-16	2014-15	2013-14	2012-13
0	0	0	1	0

File Description	Document
Institutional data in prescribed format	View Document
List of students (other states and countries)	View Document

2.1.2 Average Enrollment percentage (Average of last five years)

Response: 66.8

2.1.2.1 Number of students admitted year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
467	277	457	624	551

2.1.2.2 Number of sanctioned seats year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
552	840	840	780	672

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	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:** 89.4

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

2016-17	2015-16	2014-15	2013-14	2012-13
287	248	387	402	347

File Description	Document
Institutional data in prescribed format	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:**

Following methods are adopted to assess and address the learning levels of the students of first year and students of higher classes in the institute.

First year students: The institute analyses the data regarding academic performance prior to the admission of the students of first year. Based on their analysis of performance at qualifying exams and performance in the first test exam, the students are categorized into slow and advanced learners. The sections of the students are then reshuffled. More emphasis is given on the basic concepts of the subjects to the section of slow learners, where as advanced learners are taught with more advanced applications in the course.

Students of Higher classes: The sections once reshuffled in first year, are maintained for next year wherever possible. In addition to the efforts emphasized for first year students, following special programs are arranged.

Advanced learners:

- Special add-on programs like STAAD Pro, SCADA, Android etc. are arranged.
- Selected students are sent for internship in the industries.

Slow learners:

- Extra lectures of senior and experienced faculty having expertise in respective subject are arranged for the slow learners to help them deal with the basic concepts and applications.
- Crash courses on analytical or difficult subjects are arranged after one third syllabus is covered. The

experience faculty engages such courses.

Common practices:

Tutorial classes for analytical subjects are conducted. The batch of 20 – 30 students is assigned per faculty. The faculty gives attention to each individual student and helps him to understand and solve the problems. The faculty also assesses the learning ability of the individuals.

After every test examination the individual faculty member discusses the common and uncommon mistakes committed by the students providing the solutions for the same.

Programs are arranged for students by Training and Placement department of the institute for developing communication skill, inter personal skills, aptitude, interview skills. The job seekers are thus helped in getting placed or getting success in competitive exams. The students aspiring higher education are helped in getting success in entrance exams like GATE, CAT, CET, MAT for higher education.

2.2.2 Student - Full time teacher ratio

Response: 14.67

File Description	Document
Institutional data in prescribed format	View Document

2.2.3 Percentage of differently abled students (Divyangjan) on rolls

Response: 0

2.2.3.1 Number of differently abled students on rolls

File Description	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:

Experiential learning.

- Industrial visits are organized for the students to gain practical knowledge about the functioning of industries which facilitates to understand the corporate working.
- Socio-relevant and industry sponsored projects are allocated to the final year students, wherever possible.

- Students are appreciated for their best and outstanding performance in project, research and other relevant areas.
- Institute organizes the project competitions so that students can demonstrate the outcome of their experiential learning.
- Students are encouraged to submit their project proposals for various funding agencies under the guidance of a faculty member.
- Every year, few experiments are changed from the list of experiments as per curriculum of each subject.

Participative learning.

- Learning is made more proactive by making students more participative in the class-room activities through seminars, group discussions, power point presentations and quizzes.
- Students are motivated to participate in different CAD Wars, Robo Wars etc.
- Students are encouraged to participate in paper presentation in various national and international conferences and journals.
- Students are motivated to participate in Technical festival “E-dazzeled” organized by the institute every year includes Setu Rachna, Robo War, Robo race, Technical paper presentation, Technical Project competition, Poster presentation, Aero modeling.
- Students are encouraged to contribute articles in College magazine.
- Students are motivated to participate in inter college and intra college technical activities.

Problem solving methodologies

- Brain storming sessions are arranged in the classes to help students solving their difficulties.
- Tutorials are given to the students for the design and analysis based subjects.
- Assignments are given to the students for practice and better understanding.
- After evaluation of sessional examination the mistakes committed are discussed in the class and solutions are elaborated.

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

Response: 81.18

2.3.2.1 Number of teachers using ICT

Response: 69

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:** 18.07**2.3.3.1 Number of mentors**

Response: 69

File Description**Document**

Year wise list of number of students, full time teachers and students to mentor ratio

[View Document](#)**2.3.4 Innovation and creativity in teaching-learning****Response:**

Innovative teaching is necessity for all teachers to meet educational needs of new generations. Apart from regular lectures through chalk & talk, following innovation teaching approaches are being practiced in various depts.

Video Lectures: NPTEL provides free access to captured video lectures on almost all topics of engineering courses. These video lectures are delivered by renowned faculty of institutes like IITs. All the faculty members of the institute have downloaded many such lectures and these are shown to the students frequently.

Expert Lectures: Experts from the industry are called to deliver lectures on special/advanced topics to make the students aware of the recent technology and trends.

Field and Industrial visits: Students are taken to construction sites, manufacturing and processing industries as a matter of practice regularly to give them an exposure to real life situations and problems to make them learn and correlate their theory knowledge to actual practices.

ICT usage: Use of LCD projectors for power point presentations on some topics is practiced. Video lectures of in-house faculty are captured and made available to the students on demand. Facility of Google classrooms has been recently provided to the students.

Subject Workshop: Each department identifies difficult to learn few subjects or topics in syllabus. Expert faculty from the department teaches these topics in a day long workshop.

Seminars, technical paper presentation and mini-projects are facilitated to make the environment activity based.

To refine the critical thinking among students, various group discussions, debates, quizzes, workshops etc., are organized in which students explore new ideas and thus enhances their performance levels.

Remedial classes are organized to clarify doubts, re-explaining of critical topics for improving performance. Poor performance due to frequent absenteeism is dealt by sending SMS and registered letters

to the parents of such students. Appropriate counseling with additional teaching, eventually helps students to attend classes regularly. All the staff members maintain good relation with students and deal with their problems in a gentle manner. Each class is divided into two batches and separate tutorial classes are conducted to all students for all branches of undergraduate courses. Generally, one teacher is assigned for each batch.

2.4 Teacher Profile and Quality

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

Response: 74.13

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: 5.34

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

2016-17	2015-16	2014-15	2013-14	2012-13
6	6	7	4	3

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 of full time teachers in number of years

Response: 5.57

File Description	Document
List of Teachers including their PAN, designation,dept and experience details	View Document

2.4.4 Average 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:** 1.2

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

2016-17	2015-16	2014-15	2013-14	2012-13
1	0	1	2	2

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:** 3.58

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

2016-17	2015-16	2014-15	2013-14	2012-13
4	4	5	4	6

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 Reforms in Continuous Internal Evaluation(CIE) system at the institutional level****Response:**

Internal assessment is carried out as per the guidelines of the affiliating University. Internal assessment tests are conducted as per the predefined schedule mentioned in the academic calendar. The schedule is notified to teachers and students. Apart from examinations other evaluation criteria includes seminars, projects and other curricular activities.

Internal Assessment Marks for theory:

The internal evaluation scheme is implemented as per the curriculum prescribed by affiliating university. For a 100 marks course, 20 marks are assigned to internal assessment. 20 marks were further divided into 15 marks for tests and 5 marks for attendance. This evaluation system was reformed in the year 2016-17. 15 marks are assigned on the basis of sessional examinations and assignments as follows:

Internal Tests: Number of tests – 2

Marks per test – 30

Average marks of two tests are converted to the scale of 10.

Assignments: Number of assignments – 2

Marks per assignment – 2.5

Total marks – 5

Internal Assessment Marks for Practical Exam:-

The internal evaluation scheme is implemented as per the curriculum prescribed by affiliating university. Out of 50 marks in practical examination, 25 marks are assigned to internal and external assessment each. 25 internal assessment marks are based on experimentation and timely submission. This evaluation system was reformed in the year 2016-17. 25 marks are assigned on the basis experimentation, results, timely submission and viva-voce. Break-up of these 25 marks is as follows:

Experimentation and results: 15 marks

Timely submission: 5marks

Viva-voce: 5

Seminar:-

Earlier seminar topic was selected and studied by the student under the guidance of project Guide. Open house seminar was delivered by the student and assessed for 50 marks by the panel of three teachers as internal examiners. From year 2016-17 the system was reformed wherein students are instructed to refer and study peer reviewed journal papers to finalise the topic of seminar with the consent of project guide.

The seminar is assessed by project guide and panel of three teachers for 25 marks each. The assessment by guide is based on following areas:

- Content : 10 Marks
- Concept : 10 Marks
- Novelty : 5 Marks

The assessment by panel of three teachers is as follows:

- Content : 5 Marks
- Presentation skill : 10 Marks
- Quality of ppt : 5 Marks
- Defense : 5 Marks

Projects:-

Earlier project topic was selected and studied by the group of students under the guidance of project Guide. The project was assessed by the project guide for 75 marks on the basis of involvement and contribution of each student and their outcome.

From year 2016-17 the system was reformed wherein students are assessed by project guide for 50 marks and panel of three teachers for 25 marks.

The assessment by guide is based on following areas:

- Involvement : 10 Marks
- Contribution : 10 Marks
- Outcome : 30 Marks

The assessment by panel of three teachers is as follows:

- Presentation skill : 5 Marks
- Use of technology : 5 Marks
- Outcome : 10 Marks
- Defense : 5 Marks

2.5.2 Mechanism of internal assessment is transparent and robust in terms of frequency and variety

Response:

Transparency is ensured in the internal evaluation system by adopting continuous evaluation of every student. The performance is communicated to every student time to time to keep scope of improvement.

The test examination is conducted like university examination with separate seating arrangement of the students. Internal test question paper is set for 30 marks with duration of one hour. The evaluation is carried out by respective subject teacher and the answer books are shown to students for justification of allotted marks, deviation from expected answer, clarification on mistakes.

The internal evaluation of practicals is carried out after completion of experiment and subsequent submission of record and accordingly grades are allotted.

The internal marks of each theory subject, practical, seminar and project are displayed on the departmental notice board in advance of university examination.

Weightages assigned to internal assessment parameters are communicated to the students at the starting of semester. Any changes in evaluation system are notified and communicated to the students in classrooms.

Attendance of students carries weightages in internal evaluation. The attendance record of students is displayed on departmental notice boards at the end of every month.

The students who remain absent for the internal test or practical due to reasons like illness, participation in co-curricular or extracurricular activities are given chance to appear for the specially conducted test and practicals.

2.5.3 Mechanism to deal with examination related grievances is transparent, time-bound and efficient

Response:

The university has well defined system for redressal of grievances for students related to university examination. The Institute deputed a faculty coordinator as per guidelines issued by the University to take care of students' examination related grievances. The grievances are routed through him. The students can apply for revaluation and for photocopy of answer book to the university. The University examiners re-assess the answer books and the revised marks if any are conveyed to the students by university.

2.5.4 The institution adheres to the academic calendar for the conduct of CIE

Response:

Academic calendar:

Every year, well in advance of beginning of the semester, the academic Dean and heads of departments, in consultation with the principal & also referring to the Sant Gadge Baba Amravati University academic calendar, prepares academic calendar of institute mentioning duration of semester, holidays, vacations, test schedule & dates of important events in the semester. Every department scrupulously follows this academic calendar.

Preparation of time table and course allotment:

The allotment of the subject is done by respective programme head in consultation with the faculty at the end of previous semester in the faculty meeting. The time table is prepared and handed over to respective faculty member before starting of semester. Enough time is given to them for preparing for new courses.

Teaching plan:

The faculty members prepare the teaching plan as per the University syllabus, referring to academic calendar. At the starting of every month academic monitoring committee takes review of the course coverage, number of theory and practical classes taken by each faculty. Extra classes, alternative arrangements of faculty on leave are arranged to compensate missed classes and lagging courses.

Frequently classes are added extra in the vacant time slots of the time table to cover the courses as per the teaching plans.

Internal tests:

Every programme conducts two internal assessment tests each semester. Students are given an opportunity to see their answer books after valuation & seek clarifying captions, if any. The test papers are evaluated within 3 days by the concerned faculty & the marks obtained are displayed on the student's notice board. In addition to the internal examinations assignments are also given to also. Exceptionally sometimes we conduct the additional internal test for the students who cannot remain present due to genuine reasons like participation in National and state level sports events or on medical grounds.

Practicals:

Coming to labs, regular assessment is done after completion of each practical. Extra slots are utilized for conducting practicals of absent students (on medical ground or other genuine reasons). Comprehensive individual assignments are practiced and students need to present the assignment before submission.

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:

Description of mechanism of Communication

- POs are published on the website of the institute and PSOs are displayed at prominent places in each department.
- These are disseminated to the stakeholders through interactions such as, student-class teacher meetings, parent meetings, industry persons during campus placement drives etc.
- The faculty explains the program outcomes and course outcomes expected from the course offered to the students before the commencement of course in every semester.

File Description	Document
COs for all courses (exemplars from Glossary)	View Document

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

Response:

The program outcomes are the capabilities of graduating student in terms of knowledge, skill and attitude.

Knowledge related POs are attained by the students through the curriculum and are assessed through direct assessment tools viz. internally developed assessments, project exams, technical seminars, University exams, practical, oral exams etc.

Skills related POs like team work, communication (both oral and written) use of modern tools etc attained by the students are assessed through direct tools like laboratory work, practical oral examinations, mini projects, projects, seminars. Since attainment of skills cannot be quantified directly, rubrics are developed with appropriate performance criteria.

The attitude related POs are assessed through participation of the student in societal work, other co curricular and extracurricular activities as well as ethical practices followed.

Each course in every discipline addresses to one or more Program Outcomes.

These program outcomes are enlisted for each course.

Similarly POs numbered one to eleven are addressed by one or more Courses in every Program.

From the university examination result of each course of every student the attainment of POs is calculated as below.

The average marks obtained in university exam (External + Internal) in the courses addressing particular PO are calculated. These are mentioned on the scale of one.

PO number 12 is about Life long learning which address to attitude of the students. Following parameters which are considered while measuring the attainment level of the same.

1. Appearing for GATE or any state or national or international level Entrance exam for post graduation.
2. Undergoing training on add on programme or bridge course.

Pre defined weightages are assigned to above parameters and level of attainment is determined.

PSOs:

PSOs are determined on the basis of average of all semester results. Since curriculum of every semester comprises of various programme related courses, final marks scored in examination specify the PSO of respective programme. Each course in every specific programme addresses to PSO which is determined on the basis of marks scored in respective course.

COs:

The marks obtained by the students in each course (both internal and external examination combined) is the only parameter considered. Attempts are made to address all COs while framing the internal tests and assignments. The weightage of internal marks is only 20% and 80% marks are assigned to university examinations, it is not justified to determine level of attainment of COs merely on the performance in

internals. Since the end semester examination and assessment are carried out by the affiliating university, the attainment of individual COs cannot be analysed. In view of above mentioned system, the total marks obtained in a course has been considered as the only parameter to measure the level of attainment of COs.

2.6.3 Average pass percentage of Students

Response: 76.06

2.6.3.1 Total number of final year students who passed the university examination

Response: 1296

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

Response: 1704

File Description	Document
Institutional data in prescribed format	View Document

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Response:

File Description	Document
Database of all currently enrolled students	View Document

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1 Grants for research projects sponsored by government/non government sources such as industry ,corporate houses, international bodies, endowment, chairs in the institution during the last five years

Response: 0

3.1.1.1 Total Grants for research projects sponsored by the government/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)

2016-17	2015-16	2014-15	2013-14	2012-13
0	0	0	0	0

File Description	Document
List of project and grant details	View Document

3.1.2 Percentage of teachers recognised as research guides at present

Response: 3.53

3.1.2.1 Number of teachers recognised as research guides

Response: 3

File Description	Document
Institutional data in prescribed format	View Document

3.1.3 Average number of research projects per teacher funded by government and non government agencies during the last five years

Response: 0

3.1.3.1 Number of research projects funded by government and non-government agencies during the last five years

File Description	Document
List of research projects and funding details	View Document

3.2 Innovation Ecosystem

3.2.1 Institution has created an ecosystem for innovations including incubation centre and other initiatives for creation and transfer of knowledge

Response:

Institute has taken the initiative to establish Technowvista Incubation Centre in session 2016-2017. The primary aim of Technowvista Incubation Centre is to facilitate new company formation by providing an entrepreneurial nurturing environment for young start-up and spin-out technology companies, alleviating their survival and growth, thus encouraging them to reach their full potential and also to develop individual talent, skills and personality to give each business the best possible start, thus fostering entrepreneurship at a local, national and international level. It also focuses existing Industry for Product Development and Product Mix for their business expansion as well as it contributes for Job creation, Foster entrepreneurial climate, Commercialize Technology, Diversify local economies & Build/Accelerate local industry growth. Incubation center has developed infrastructure consisting of **11** Computers, **01** Printers, **01** LED TV, **06** Machines, **1** 3KVA UPS Battery etc.

Institute has appointed talented staff from different trade for Technowvista Incubation Centre whose information are given below,

Name	Designation	Industrial Experience	Specialization
Prof.S.P.Potdukhe	Research Scholer	NIL	Mechanical Engineering
Prof.V.D.Tonge	Research Scholer	01 Year	Mechanical Engineering
Prof.A.K.Thakur	Research Scholer	NIL	Electronics & Telecommunication Eng
Prof.V.S.Ingole	Research Scholer	NIL	Electronics & Telecommunication Eng
Prof.A.M.Pachghare	Research Scholer	03 Year	Civil Engineering
Prof.A.R.Bijawe	Research Scholer	NIL	Civil Engineering
Prof.O.A.Jaisinghani	Research Scholer	01 Year	Computer Science & Engineering
Prof.Z.I.Khan	Research Scholer	NIL	Computer Science & Engineering

Available Machine:-

Sr. No	Name of Machine	Quantity
1	Dell Computer System	11
2	3D Printer	01
3	6-Axis Articulated Robot	01
4	CNC Milling m/c-MTLAB Industrial controller Model XLMILL	01
5	CNC Milling m/c-MTLAB Industrial controller Model XLTURN	01

The strong evidence and the usability of Technowvista Incubation Centre are the Accomplished and Undergoing Projects whose brief information are given below,

Sr. No.	Client Name	Projects
1	Dr. Shivshankar K.Chopkar, Nagpur	Artificial Rain Making
2	Ms. Vidyut D.Ingole, Amravati	Dustbin for garbage collection & segregation

3	M/s V J Instruments, Karanja Lad	Film Former Machine	
4	Mr. Vandana S.Gadge, Amravati	Mosquito Net in cot cum Trunk	
5	Mr. Sagar H.Kasat, Amravati	Water Cooler & Water Purifier	
6	Mr. Yogendra S.Desai, Amravati	Two Wheeler Clutch & Gear Assembly Average of vehicle	For
7	Mr. Pravin B.Khachane, Bhusawal	Water Treatment Plant	

The Primary Objectives of our Technovista Incubation Centre are to Create local jobs, Foster entrepreneurial climate, Commercialize Technology, Diversify local economies, Build/Accelerate local industry growth, Retain firms in community, Encourage minority and women entrepreneurship, Promote small & medium industries, Creation of an ecosystem for social start-ups, Larger social impact, Knowledge creation and Innovation.

The Services offered by our Technovista Incubation Centre are,

Business and Professional Support Services:

- Access to library and digital resources.
- Networking opportunities within TIC as well as industry and government resources.
- E-commerce assistance.
- Provide guidance and mentorship through professionals and specialized consultants.
- Identification of various funding options for incubates.
- Advisory services in business plans formulation, marketing strategies, project selection etc.
- Training on basics of entrepreneurship.
- Advice in legal and financial consultancy.
- Intellectual Property & Licensing (Assistance to existing incubatees by way of specialized services e.g. Patenting, Copyright, Trade Mark etc.)
- Events.

Technical & Management Services:

- Access to Faculty resources.
- Access to Labs.
- Access to Venture Capital Firms, Business Angels and strategic partner linkages.

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

Response: 20

3.2.2.1 Total number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-

Academia Innovative practices year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
3	5	3	0	9

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

3.3 Research Publications and Awards

3.3.1 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

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

Response: Yes

File Description	Document
List of Awardees and Award details	View Document
e- copies of the letters of awards	View Document

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

Response: 1

3.3.3.1 How many Ph.Ds awarded within last five years

Response: 5

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

3.3.4 Number of research papers per teacher in the Journals notified on UGC website during the last five years**Response:** 0.65

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

2016-17	2015-16	2014-15	2013-14	2012-13
127	86	36	36	25

File Description

List of research papers by title, author, department, name and year of publication

Document[View Document](#)**3.3.5 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:** 0.31

3.3.5.1 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

2016-17	2015-16	2014-15	2013-14	2012-13
14	27	46	34	32

File Description

List books and chapters in edited volumes / books published

Document[View Document](#)**3.4 Extension Activities****3.4.1 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:**

Institution promotes institute neighborhood network community development by conducting regular activities related to social responsibilities of the institute. The Institution aims at development of students and transforming them into responsible citizens with moral values. To develop social responsibility,

institute has established NSS unit in 2009 under the affiliating University Sant Gadge Baba Amravati University, Amravati.

The main aim of establishment of NSS unit was

- To develop personality of students through community services.
- To point out students strengths, weaknesses and qualities like leadership and team work among people with different streams and get exposure for student's works and talents.
- To create awareness among the students about different cultures & actual problems in rural area through NSS special camps.
- To enhance the social involvement of students to understand social responsibility.

NSS unit comprising of 100 students is active in community development activities.

NSS-DRGIT&R has conducted various activities in adopted villages covering the issues like computer awareness, Avoid farmer's suicide, health education etc. A seven days residential camp was arranged in adopted village every year in which almost 50 students participate. This has helped to the students in building a rapport with the villagers and an understanding of their problems.

NSS volunteers helped in the Cleaning campaigning and Tree plantation in adopted village. Various kinds of plants have been planted by the students in adopted village. The basic objective of the Cleaning campaigning and Tree plantation was to sensitize the students towards environmental concerns, to inculcate the value of organizational commitment and ultimately to make the village clean and green.

Street play and ralley organized on the street of villages to avoid farmers subside, women's safety in urban area. Street plays are a wonderful platform to connect with the people. It is an excellent communication tool to understand the problems of the people and help them to come out of it. This helps in grooming the students as socially responsible citizens and when they grow up they will be able to connect with the people easily.

NSS volunteers distributed school stationary to economically backward village students and fruits among the leprosy patients and heart patients on the occasion of special days. Due to this program happiness spread among everyone's face on this auspicious occasion.

NSS unit conducted awareness programs on diseases like aids, T.B and conducted free health checkup camp. Students learned that healthy life is essential for preventing the various diseases.

NSS unit of DRGIT&R every year conducting blood donation camp for the social cause and separately organizing blood donation camp from last two years on the occasion of Birth anniversary of Late Dr.Rajendraji Gode, Founder president IBSS, Buldana. Such type of activities motivates to the student and creates awareness in the student about social work.

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

Response: 18

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

2016-17	2015-16	2014-15	2013-14	2012-13
3	8	3	2	2

File Description	Document
Number of awards for extension activities in last 5 years	View Document
e-copy of the award letters	View Document

3.4.3 Number of extension and outreach programs conducted in collaboration with industry, community and Non-Government Organisations through NSS/NCC/Red cross/YRC etc., during the last five years

Response: 27

3.4.3.1 Number of extension and outreach programs conducted in collaboration with industry,community and Non-Government Organisations through NSS/NCC/Red cross/YRC etc.,year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
10	4	5	1	7

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

3.4.4 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: 0.44

3.4.4.1 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

2016-17	2015-16	2014-15	2013-14	2012-13
10	7	5	1	7

File Description	Document
Average percentage of students participating in extension activities with Govt. or NGO etc.	View Document
Report of the event	View Document

3.5 Collaboration

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

Response: 11

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

2016-17	2015-16	2014-15	2013-14	2012-13
8	2	1	0	0

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

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

Response: 11

3.5.2.1 Number of functional MoUs with institutions of national, international importance, other universities, industries, corporate houses etc. year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
8	2	1	0	0

File Description	Document
e-copies of the MoUs with institution/ industry/ corporate house	View Document
Details of functional MoUs with institutions of national, international importance, other universities etc. during the last five years	View Document

MAAC

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 institute has adequate infrastructural facilities as per the AICTE norms. The details are given below:

Technology Enabled Learning Spaces//Qty. computing facilities	Required	Required	Available	Available	Availability of t Specialized Fac Equipment for Teaching - Learn Research
	No.	Total Area (m2)	No. /Qty.	Total Area (m2)	
Class Rooms	24	1584	24	1700	LCD Projectors, PA Systems, and Internet
Tutorial Rooms	8	264	10	348	
Laboratories	52	3432	52	4244	
Computer Center	01	150	01	151	
Seminar Hall(s)	03	396	3	402	
Language Laboratory	01	66	1	70	
Workshop	01	200	1	200	
Main Library	01	400	1	618	
Drawing Hall	01	132	1	181	
Administrative area		940		1490	
Canteen and other amenities		470		817	
Circulation area		2205		3114	
PCs	368		386		

printers	19	20		
Internet bandwidth	32	110		

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

Response:

Institute has Following Facilities Available for outdoor Sports

Sports	Specification		Equipment	year of establishment
	Location	Size		
Cricket	college play Ground	68.58 meters	Cricket Kit with 4bats, half Mating	2013
Volleyball	college play Ground	18 X 9 m Length -18 meters Width -9 meters	volleyball One pis-2 & practice ball-2 with Volleyball Net, Volleyball Pole	2013
Football	college play Ground	100X 50 Yards Length -100Yards Width-50Yards	Football Net, Football Pole, for college play ground	2013
Kabbadi	college play Ground	13 X 10m Length -13metres Width-10 meters	-----	2013
Kho-Kho	college play Ground	29 X 16 m Length- 29 meters Width -16 meters	Kho-Kho Pole for college play ground	2013

Institute has Following Facilities Available for indoor Sports

Sports	specification		year of establishment
	Location	Equipment	
Table Tennis	Sports Hall	TT Table-1, Bats-6, Ball-2 Box, TT Net-1	2013

Chess	Sports Hall	Chess board-5 with checkers Coin	2013	
Carom	Sports Hall	Carom board -5 with Gotties	2013	

Facilities for cultural activities

Annual Social Gathering (Rhythm)	For smooth conduction of cultural activities, institute have open auditorium of 1500 student activities are also held at various seminar hall
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4.1.3 Percentage of classrooms and seminar halls with ICT - enabled facilities such as smart class, LMS, etc

Response: 67.57

4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 25

File Description	Document
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Number of classrooms and seminar halls with ICT enabled facilities	View Document
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4.1.4 Average percentage of budget allocation, excluding salary for infrastructure augmentation during the last five years.

Response: 15.8

4.1.4.1 Budget allocation for infrastructure augmentation, excluding salary year wise during the last five years (INR in Lakhs)

2016-17	2015-16	2014-15	2013-14	2012-13
50	30	35	70	110

File Description	Document
Details of budget allocation, excluding salary during the last five years	View Document

4.2 Library as a Learning Resource

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

Response:

Institute library is using Library Management System software Version 2.0 from academic year 2012-13 to till date. The library software has modules such as Members, Catalogue, Circulation, OPAC and Report. All the available book collection is updated in the Library Management Software database and the OPAC facility is also available for the users. The issue and return of books has been activated with the Library Management Software by using Bar-coding system.

Name of ILMS software : Library management system

(Supplied by: Dot.com Computers, Amravati)

Nature of Automation : (Partially) Library is using all major modules Of software

Version : 2.0

Year of automation : 2012-13

4.2.2 Collection of rare books, manuscripts, special reports or any other knowledge resources for library enrichment

Response:

Library has 18290 numbers of books including textbooks and reference books which cover academic and research needs along with additional 173 copies of rare books and 308 special reports of B.E. and M.E. Projects.

Sr.	Name of book	Name of Publisher	Name of Author
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no.				
01	Air Conditioning	D.B.Taraporevala Sons & Co.	V.Paul Lang	
02	Operations Research	C. Jamnadas & Co	Patel R C & Dave N R	
03	Hydraulic Machines	Acharya Book Depot	Patel R C & Pandya A.D. B.M.	
04	Heat Transfer	Dhanpat Rai & Sons	Domkundwar V M	
05	Operations Research	Dhanpat Rai & Sons	Askhedkar R.D. & Kulk R.V.	
06	Machine Design Exercises	Khanna Publishers	Trikha S.N.	
07	Production Management	Vrinda Publication	Awate P.G., Chunawalla S	
08	Quantitative Techniques in Management	Tata McGraw Hill	Vohra N D	
09	Operation Research for management	Wiley Eastern	Shenoy G V, Srivastava U Sharma S C	
10	Operation Research	Pragati Prakashan Meerut	Goel B.S, Mittal S K	
11	Mechanical Measurements	Narosa Publication	Thomas G.Beckwith, N.Lewis Buck , Roy D. Marangoni	
12	Operation Research	S.K.Kataria & Sons	Verma A.P.	
13	Proceeding of International conference on Advance in Mechanical & Industrial Engineering Vol.1	Ajay Printers & Publishers, Roorkee	Department of Mechanical Industrial Engineering University of Roorkee	
14	Proceeding of International conference on Advance in Mechanical & Industrial Engineering Vol.2	Ajay Printers & Publishers, Roorkee	Department of Mechanical Industrial Engineering University of Roorkee	
15	Surveying and leveling Part 2	Pune Vidyarthi Griha Prakashan, Pune	Kanetkar ,T P & Kulkarni	
16	Indian Practical Civil Engineers Handbook	Engineers Publishers	Khanna P N	
17	Steel Structures	Khanna Publishers	Vazirani V N & Ratwani	
18	Chemistry for Environmental Engineering 3rd Ed.	McGraw Hill International	Sawyer Clair N & McCarty Perry	
19	Building Construction	Standard Publishers	Kunar Sushil	
20	Civil Engineering 3rd Ed.	Khanna Publishers	Agor R	
21	Irrigation and water power engineering 6th Ed.	Standard Publishers	Punmia B.C.	
22	Elements of water supply and wastewater disposal 2nd Ed.	Fair Gordon Maskew Geyer John Charles Okun Daniel Alexander	John Wiley & Toppan	
23	Industrial organization and engineering economics	Banga T.R. Sharma S.C.	Khanna Publishers	
24	Tunnel Engineering	Dhanpat Rai	Saxena Subhash C	
25	Reinforced Concrete Vol.1	S.Chand & Co.	M.Sivaramakrishna Iyer & Narayanswami	

26	Wastewater engineering treatment disposal reuse 2nd Ed.	Tata McGraw Hill	Metcalf & Eddy	
27	Theory of Structures	S.Chand & Co	Khurmi R S	
28	Differential calculus	S.Chand & co.	Narayan, Shanti	
29	Calculus	Ideal book service, Pune	Kelkar,M.K.	
30	Dynamics for post-Graduate classes	Krishna P. Mandir	Nand,brahma	
31	An Introduction to Linear Algebra	EWP.	Krishnamurthy	
32	The elements of coordinate Geometry	Machmillan & co Ltd	Loney,S.L.	
33	Solved Papers on Practical Mathematis	Academic Pub.		
34	Vector Algebra	Jai Prakash nath & co.	Khanna,M.L.	
35	Dynamics of rigid bodies	Kedar nath Ram nath	Nand,Brahma.	
36	Co-Ordinate solid Geomety	Kedar nath Ram nath	Kedar nath Ram nath	
37	Elementri Mecanis	Ideal Book Service	Chandratreya,G.L.	
38	Mathematical methods in Physics & engg.	Mc Grall hill.Book Com.	Dettman,J.W.	
39	Higher Algebra	Premier Pub.	Ray,M.	
40	Analytical solid geometry	S.Chand & Co.	Narayan, Shanti	
41	Trigonometry and Algebra	Ram chand & Co.	Vaze,A.G.	
42	Elements of Calculus	Populer Pub.	Pavate,D.C.	
43	Statics	Vidya Pub.	Daftari,D.K.	
44	Dynamics	Vidya Pub.	Daftari,D.K.	
45	Line Integrals and Allied Topics	Vidya Pub.	Mangaigiri,S.R.	
46	Differential Geometry	Krina Pub.	Mittal,S.C.	
47	Differential Equations	Shalini Pub.	Nand,brahma	
48	Co-Ordinet Geometry of three Dimensions	Ajab Pub.	Salunkhe,K.M.	
49	Elements of Analytic Geometry	Arya Book Depot.	Gupta,R.G.	
50	Integral Calcuus	Kedar nath Ram nath	Nand,brahma	
51	Spherical Astronomy	Jai Prakash Nath & Co.	Khanna,M.L.	
52	Logarithmic and other tables	M.	Castle, Frank	
53	Differential calculus	Allies Bookstall,Poona	Shahane	
54	Communication skills for Technical students	Somaiya Pub.	The curriculum developm	
55	Maharashtra circle Pincode Directory	TheCentury Spg.&Mfg co.Ltd Bombay.	Arunachalam.V.E.	
56	Principles and practice of management Vol .1	Indian Marketing Academy.		
57	Principles and practice of management Vol .II	Indian Marketing Academy		
58	History of Civilization	S Chand & co.	Joshi,P.S.	
59	Plane Trigonometry Part I	Arihant Pub.	Loney,S.L.	
60	Complete theory and solutions of problems in S.E&B.SC.Mathematis	Allies Book Stall	Shahane,	
61	Topology uniform convergence & Double integration	Vidya pub.	Mangalgri,S.R.	
62	Co-ordinate Geometry Part -II	Krishna Prakashan Mandir	Mittle, S.C.	
63	Differential Equations	Jai Prakash Nath& co.	Khanna M.L.	
64	Convergence of Infinite Series& Infinite Products	Kedar nath Ram nath	Nand,brahma	
65	Engineering Mathematis	N.P.C.	Venkataraman	
66	Engineering Mathematis Vol.Iv	Allies Book Stall	Shahane	

67	Statics	Krishna Prakashan Mandir	Nand,Brahma.	
68	Determinants	Jai Prakash Nath& co.	Khanna M.L.	
69	Elective Mathematics	Orient Pub.	Sharama,K.K.	
70	Differential calculusFor beginners	Macmillan,A.G.	Edwards	
71	Integral Calculus	S Chand & co.	Narayan Shanti	
72	Theory of Aggregates of Real Numbers	Kedar nath Ram nath	Nand,Brahma.	
73	Algebra And Calculus	Vidaya Prakashan	Giri, Mangal.	
74	Coordinate solid Geometry	Macmillan& Co.Lit.	Robert,J.T.	
75	A text Of Matrices	S Chand & co.	Shantinakaran	
76	Spherical trigonometry	Jai Prakash Nath& co.	Khanna M.L.	
77	Theory of Group Algebra	Vidaya Prakashan	Mangalgri,S.R.	
78	Partial Differential Equatio0ns	Jai Prakash Nath& co.	Khanna M.L.	
79	A New Course in Mathematis	S Chand & co.	Deshpande V.D.	
80	Engineering and B.sc.Mathematics	Engg. Book co. Bombay	Shahane	
81	Fandamentals of Mathematic	Macmillan	Hirurkar,S.N.	
82	Fanctions of a Complex Variable	Krishna Prakashan Mandir	Sharma,J.N.	
83	Engineering Mathematics I	V.B.D.		
84	Integral Transforms	Shalini Prakashan	Sinha, H. C.	
85	Solved Problems in Engineering Mathematics IV.	B. D. Pub.	Ali, Mahboob. M.	
86	Mechanics Of Materials	Prentice- HallOf India	Popov, E. P.	
87	Russia And Her People recollections in tranquility	Fothergill, Dorothy	Progress Pub.	
88	With Wolfe in canada	Henty, G. A.	Latimer House Limited	
89	Red Sky At Morning	Harper Perennial	Bradford, Richard	
90	Myford ML7 Lathe Manual	Technical Pub.	Bradley Ian	
91	Acupuncture	Unwin Paperbacks	Macdonald, Alexander	
92	Metternicsh And The duchess	Doubleday & Company	Mcguigan, D. G.	
93	Systems Analysis And design	Galgotia Pub.	Awad, E. M.	
94	Power Station Engineering And Economy	Tata McGRAW – Hill Pub.	Skrotzki, Bernhardt G. A.	
95	Thermodynamics	The Macmillan Company Gail Sheehy	Faires, Virgil M.	
96	Character Americas Search for Leadership	William morrow and company,INC.New York	Gail Sheehy	
97	Some Great Mathematicians of the Nineteenth century	Dynamic Pub.Ltd.	Kapur,J.N.	
98	Informatics Practices The Text book for class xii	Jaiswal ,S	Galgotia Pub.Pvt.ltd.	
99	Vakyakosh Part II	Raj hans Pub.	Lele,Y.K	
100	Sakaratomak vicharanchye samrthya	Manjul Pub. House	Thakkar,P.	
101	Varda Marathi English Shabdakosh	Varda Prakashan	Bhave, H. A.	
102	Islam Maker of the Muslim Mind	Raj Hans Pub.	More,S.	
103	Marathi Bhasheche vak Prachar v Mhani	Uttkarsh Pub.	Bhide, V.v..	

104	Urdu Marathi hindi Shabdakosh	Nitin Pub.	Joshi,S.	
105	Amravati University	Statutes Book	Statutes Book	
106	India Spotughi on population	Progress Pub.	Progress Pub.	
107	Vakyakosh Part III	Raj Hans	Lele,V.K.	
108	Amravati University Ordinance Book			
109	Information Systems ,Technology And Management	Allied Pub.	Agarwal,Anurag.	
110	International Conference on Controls ,Automation and communication systems (ICCACS-2004)	Allied Pub.	Mishra,D.K.	
111.	Solid State Ionic Devices	Allied Pub.	Selladurai, S.	
112	International conference On Nanomaterials NANO -2005	Allied Pub.	Rajendran, V.	
113	A View From The Spire	Basil Blackwell	Briggs, Julia	
114	Throries Of Engineering Experimentation	McGRAW-Hill Book company	Schenk, Hilbert	
115	National Symposiom On Advances in Microwaves and Lightwaves	Allied Pub.	Sharma, E. K.	
116	RAPCIE'06' Recent Advances in Process Control &Insturmentation Engineering	Allied Pub.	Rana, D. S.	
117	Scope and Challenges in Plasma Science & Technology	Allied Pub.	Bhadoria, B. S.	
118	Convergent Technologies For The Asia-Pacific Region Tencon-2003 Vol. I	Allied Pub.	iEEE Banglore Section	
119	First conference on Computational Intelligence & Information Security	Allied Pub.	Selvan Emil G. S. R.	
120	ADCOM-2005 Of ACS 13th International Conference On Advanced Computing & Communications	Allied Pub.	Jayaraman, Bharat	
121	National Conference On Current Trends in Technology (NUCONE-2007	Allied Pub.	Nirma University Ahmed	
122	Compact Oxford dictionary thesaurus & Wordpower Guide	Oxford university press	Editor-soanes catherine	
123	Oxford English-Marathi Dictionary Oxford university press	Oxford university press	Dhongde,R.V.	
124	A New approach dictionary of living English	Nitin Prakashan	Sohoni,S.V.	
125	English-Marathi Dictionary Vol.2 (A-I)	Shubhada-Saraswat Prakashan,Pune	Ranade,N.B.	
126	English-Marathi Dictionary Vol.2 (J-Z)	Shubhada-Saraswat Prakashan,Pune	Ranade, N.B.	
127	Microsoft Encyclopedia of Security	PHI	PHI	
128	A Book of Christmas stories	Perfect Books Delhi	Dickens,Charles.	
129	Rogets International thesaurus	Oxford &IBH PUB.Co.Pvt		
130	The World Book Encyclopedia A Voi.1	World Book Inc.a scott fetzer company		
131	The World Book Encyclopedia B Voi.2	World Book Inc.a scott fetzer		

		company		
132	The World Book Encyclopedia C –Ch Vol.3	World Book Inc.a scott fetzer company		
133	The World Book Encyclopedia ci-Cz Vol.4	World Book Inc.a scott fetzer company		
134	The World Book Encyclopedia D Vol.5	World Book Inc.a scott fetzer company		
135	The World Book Encyclopedia E Vol.6	World Book Inc.a scott fetzer company		
136	The World Book Encyclopedia F Vol.7	World Book Inc.a scott fetzer company		
137	The World Book Encyclopedia G Vol.8	World Book Inc.a scott fetzer company		
138	The World Book Encyclopedia H Vol.9	World Book Inc.a scott fetzer company		
139	The World Book Encyclopedia I Vol.10	World Book Inc.a scott fetzer company		
140	The World Book Encyclopedia J-K Vol.11	World Book Inc.a scott fetzer company		
141	The World Book Encyclopedia L Vol.12	World Book Inc.a scott fetzer company		
142	The World Book Encyclopedia M Vol.13	World Book Inc.a scott fetzer company		
143	The World Book Encyclopedia N-O Vol.14	World Book Inc.a scott fetzer company		
144	The World Book Encyclopedia P Vol.15	World Book Inc.a scott fetzer company		
145	The World Book Encyclopedia Q-R Vol.16	World Book Inc.a scott fetzer company		
146	The World Book Encyclopedia S-Sn Vol.17	World Book Inc.a scott fetzer company		
147	The World Book Encyclopedia So-Sz Vol.18	World Book Inc.a scott fetzer company		
148	The World Book Encyclopedia T Vol.19	World Book Inc.a scott fetzer company		
149	The World Book Encyclopedia U-V Vol.20	World Book Inc.a scott fetzer company		
150	The World Book Encyclopedia W-X-Y-Z Vol.21	World Book Inc.a scott fetzer company		
151	The World Book Encyclopedia Research Guide/Index Vol.22	World Book Inc.a scott fetzer company		
152	Scope and Challenges in Plasma Science & Technology	Allied Pub.	Singh, A. K.	
153	Systems Engineering Approach To Sustained Growth	Allied Pub.	Gurusamy, G.	
154	Management Information systems	Prentice –Hall Of India	Laudan, K. C.	

	Organization And Technology			
155	Recent Advances in Computing	Allied Pub.	Dasgupta, A. R.	
156	New Horizons of Ultrasonic	Allied Pub.	Shrivastava, S. K.	
157	National Conference On Emerging Principles and Practices Of computer Science and Information Technology	Allied Pub.	Sohal Kaur Amandeep	
158	Fourth National Conference on Precision Engineering	Allied Pub.	Bhattacharya, B.	
159	Model Dictionary English into Marathi & English	S.. B. Dhawale	Rande, N. R.	
160	Encyclopedia Of Careers	Harper Collins Pub.	Ghose, Jayanti	
161	Illustrated Oxford Dictionary	Oxford University	Kindersley, Dorling	
162	Shabdārtha Kosh	Rajhans Prakashan	Bhatvadekar, M. V.	
163	The World Book Dictionary Volume One A-K	World Book Inc. Company	Barnhart, C. L.	
164	The World Book Dictionary Volume two L-Z	World Book Inc. Company	Barnhart, C. L.	
	Total			

Acc.No.	Title of Project	Student Name	Gu
RT0001	IRRIGATION AUTOMATION SUPPORTED BY SOIL MOISTURE SENSORE	Adsod, Kunal S	Pro
RT0002	EMBEDDED WEB SERVER WITH SENSING	Fanje Varun M.	Pro
RT0003	AUTOMATIC IRRIGATION AND WATER DISTRIBUTION FOR AGRICULTURAL FIELD	Deoghare ankush R.	Pro
RT0004	GSM BASED HEART ATTACK MONITORING	Yadav Vishal V.	Pro
RT0005	HOME AUTOMATION USING GSM WITH SECURITY	Mhala Monali S.	Pro
RT0006	GSM BASED MOVING MIEDDAGE LCD DISPLAY SYSTEM	Nimbalkar Sneha N.	Pro
RT0007	FOUR CHANNEL LOGIC ANALYZER	Kolhe Ankita B.	Pro
RT0008	GSM BASED INTELLIGENT METER USING MICRICINTROLLER	Shelke Akash	Pro
RT0009	THE SMART MICROSENSOR FOR INTELLIGENT HUMAN SENSING SYSTEM USING GSM	Jadhao Bhimrao	Pro
RT0010	VEHICLE ACCIDENT DETECTION SYSTEM WITH SMS APPLICATION USING GSM AND GPS MODULE	Janbandhu Abhinav A.	Pro
RT0011	CONNECTING INDUSTRIAL APPLICATIONS USING X-10 TECHNOLOGY	Bedekar Havishesh S.	Pro
RT0012	EMERGENT BRAILLE READER WITH PRINTER USING MICROCONTROLLER	Dave Ankit Y.	Pro

RT0013	GSM BASED TRAFFIC MONITORING SYSTEM	Akhare Sagar G.	Pro
RT0014	DATA REPOSITORY SYSTEMS	Bansod, Prity R.	Pro
RT0015	E-COLLEGE	Wasukar,Rahul B.	Pro
RT0016	FEEDBACK SYSTEM	Meshram,Vinit A.	Pro
RT0017	CROSS BUSINESS INTEGRATION WITH BANK APPLICATION	Pise,Shekharan S.	Pro
RT0018	WEB BASED MEDICAL CLAIMS PROCESSING SYSTEM	Patil,Prashant D.	Pro
RT0019	REAL ESTATE MANAGEMENT	Kadgale Nileshvary L.	Pro
RT0020	TELECOM CUSTOMER RELATIONSHIP MANAGEMENT	Tembhurne avinash L.	Pro
RT0021	PERSONAL INFORMATION MANAGER	Tonpe Suraj P.	Pro
RT0022	PROFILE BASED SEARCH ENGINE	Khade Nilims S.	Pro
RT0023	SECURED DIGITAL DOCUMENT LOCKER	Deshmukh Priyanka V.	Pro
RT0024	VIRTUAL JAVA OPERATING TOOL	Naktode Suraj D.	Pro
RT0025	TRAINING AND PLACEMENT CELL	Akole Maria B.	Pro
RT0026	SECURED DOCUMENT STORAGE SERVER	Shrirame Klesh B.	Pro
RT0027	HAND GESTURE RECORDING USING NEURAL NETWORKS	Deshmukh Prasad S.	Pro
RT0028	PROPELLER DISPLAY	Vaidya Praful G.	Pro
RT0029	TOUCH SCREEN BASED HOME AUTOMATION	Prashan Pooja B.	Pro
RT0030	MICROCONTROLLER BASED MONITORING AND DAIGNOSIS OF 3-PHASSE ELECTRIC MOTOR	Dhandar Granthali V.	Pro
RT0031	PWM BASED 3 PHASE CONVERTER USING PIC	Pohkar Chetan S.	Pro
RT0032	GSM BASED PERSONAL MEDI-KIT	Meshram Ashish A.	Pro
RT0033	REAL TIME IMAGE PROCESSING APPLIED TO TRAFFIC LIGHT CONTROL SYSTEM	Tayde Aashay A.	Pro
RT0034	WIRELESS DATA ENCRYPTION AND DECRYPTION USING RF MODULE	Mamarde Rashmi R.	Pro
RT0035	ENERGY SAVING SYSTEM BY IMAGE PROCESSING	Kulkarni, Asmita R.	Pro
RT0036	AUTOMATED PANTRY ORDER SYSTEM USING ZIGBEE	Tikhile Pranita N.	Pro
RT0037	UNMANNED AERIAL VEHICLE	Kadu Dhananjay M.	Pro
RT0038	SECURED TRANSMISSION USING VIDEO STEGANOGRAPHY	Ingale Ajinkya S.	Pro
RT0039	REAL TIME SIGNAL PROCESSING USING MATLAB	Jaunjale Akhilesh K.	Pro
RT0040	ULTRA WIDE BAND COMMUNICATION	Wankhade N D	Pro
RT0041	REMOTE ADMINISTRATION SYSTEM	Chaudhari Swapnali V.	Pro
RT0042	MANAGE FILE TRANSFER	Gajbhiye Sneha R	Pro

RT0043	AUDIO VISUAL STREAMING	Kalbande A S	Pro
RT0044	WEB TEXT MINING	Chaudhari K P	Pro
RT0045	E-VOTING	Thakare S S	Pro
RT0046	E-LEARNING COMBINE WITH CLOUD COMPUTING	Ughade K A	Pro
RT0047	WEB ANALYTICS FOR E-COMMERCE WEBSITE	Umale A G	Pro
RT0048	SECURING ATM WITH MULTIPLE FACE DETECTION	Ladekar A S	Pro
RT0049	DATA LEAKAGE DETECTION	Lokhande S C	Pro
RT0050	PAPERLESS CULTURE FOR COLLEGE CAMPUS	Meshram A S	Pro
RT0051	ANDROID BASED SERVER FOR DATA BACKUP AND RESTORE	Khan N N	Pro
RT0052	LOG BOOK FOR INTERNET USER	Dongare C I	Pro
RT0053	ONLINE TRAINING AND PLACEMENT CELL	Raut P V	Pro
RT0054	LOAD DISTRIBUTION USING REDIRECTING SERVER	Tadas Radhika S	Pro
RT0055	DOCUMENT SECURITY MANAGER	Kondaguie A S	Pro
RT0056	BIO GLOBALIZED CRIME FILE MANAGEMENT SYSTEM	Tarale Abhijit B	Pro
RT0057	HUMAN REASORCE MANAGEMENT SYSTEM	Ingale Pragati P	Pro
RT0058	ONLINE TRAINING AND PLACEMENT CELL	Raut Pooja V	Pro
RT0059	MAGIC : MULTI-TARGET GRAPHICAL USER INTERFACE COMPILER	Shirsar P R	Pro
RT0060	CENTRALIZE CLOUD COMPILATION SERVER AND CODE STORAGE SERVER	Chore Kuldeep B	Pro
RT0061	ANDROID INTERFACING WITH COLLEGE LIBRARY	Ambadkar Ankita	Pro
RT0062	DATA LEAKAGE DETECTION	Gade Ashish	Pro
RT0063	INNOVATION OF HOE AUTOMATION	Keshavshetty Shriniwas	Pro
RT0064	SECURITY TRACKING,LOG MAINTENANCE AND NOTIFICATION ON CLOUD COMPUTING	Awatade Snehal	Pro
RT0065	SECURE FILE TRANSFER USING RSA	Nichat Dinesh	Pro
RT0066	THE CLOUD MARKET	Mahajan Swapnil	Pro
RT0067	REAL ESTATE WEB PORTAL	Phate Krishna	Pro
RT0068	DATABASE BACKUP AND MIGRATION SYSTEM	Nannaware Pritam	Pro
RT0069	ONLINE EXAMINATION	Wakode Nikhil	Pro
RT0070	PUBLICALLY AUDITABLE SECURE CLOUD DATA STORAGE SERVICE	Daterao Siddhita	Pro
RT0071	QUERYING XML DOCUMENTS USING SQL DATABASE SYSTEM	Bankate Naina	Pro
RT0072	CYBER MINITORING SYSTEM	Wadatkar Shital	Pro

RT0073	HONEYWARE : IMPLEMENTATION OF A WEB BASED SECURITY ANALYSIS TOOL	Umekar Namrata	Pro
RT0074	CLOUD SECURE STORAGE	Ghatol Mangesh	Pro
RT0075	LEAVE MANAGEMENT SYSTEM	Agale Akshay	Pro
RT0076	CLOUD BASED DOCUMENT STORAGE	Bagade Monali	Pro
RT0077	DATA MIGRATION AND INTEGRATION ON THE CLOUD	Umalkar Amruta	Pro
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RT0082	MODIFICATION AND FABRICATION OF ALPHANUMERIC PUNCHING MACHINE	Chikhale Pratik	Pro
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RT0085	DESIGN OF BENCH VICE WORKSTATION BY CONSIDERING ERGONOMICAL ASPECTS	Sharma Mohit	Pro
RT0086	SPRAY PAINTING ROBOT	Shinde Pallavi	Pro
RT0087	EVALUATION OF INFLUENCING PARAMETERS TO IMPROVE PRODUCTIVITY OF COMPUTER TYPIST - AN ERGONOMIC APPROACH	Rathi Shreyash	Pro
RT0088	PERFORMANCE ANALYSIS OF LEVER OPERATED KNAPSACK SPRAYER (RS200) ERGONOMIC APPROCH	Deshmukh Aniket	Pro
RT0089	ELECTRICITY GENRATION BY USING SPEED BREAKER	Pathan Javed	Pro
RT0090	SMART SPRINKLER WITH WATER SAVING TECHNOLOGY	Badnerkar M. S.	Pin
RT0091	CONDITION ASSESSMENTS OF RC BUILDING DNT MODULS	Chavan	Pro
RT0092	APPLICATION OF WORK STUDY IN RATE ANAYLIS	Purankar	Pro
RT0093	EFFECT OF FLY ASH ON PROPERTIES OF CONCRETE	Raut	Pro
RT0094	DESIGN OF WATER DISTRIBUTION SYSTEM BY BRANCH SOFTWARE AND MANUALLY FOR MASOD VILLAGE	Dehankar	Pro
RT0095	SEISMIC ANALYSIS AND DESIGN OF RCC FRAME WTRUCTURE	Bambal	Pro

RT0096	COMPARATIVE STUDY AND DESIGN OF APATOKAR BUILDING BY USING ANUAL ANAYSIS AND STAAD-PRO ANALYSIS	Patokar	Pro
RT0097	VIDEO STEGANOGRAPHY	Talokar, D V	Pro
RT0098	CLOUD BASED INVENTORY MANAGEMENT SYSTEM	Ambulkar N D	Pro
RT0099	-HEALTHCARE SYSTEM	Nimbalkar S J	Pro
RT0100	PARADISE CAFETERIA	Tayde A D	Pro
RT0101	SMART DEPARTMENT MANAGEMENT SYSTEM	Nagrle S A	Pro
RT0102	MANAGEMENT OF CAMPUS RECRUITMENT SYSTEM	Ghulaxe U M	Pro
RT0103	FABRICATION ON CROP/WEED CUTTER	Joshi	Pro
RT0104	MODELING ANALYSIS AND FABRICATION OF HIP IMPLANT USING CAD AND RAPID PROTOTYPING	Chuke	Pro
RT0105	DESIGN AND FANRICATION OF LEVER OPERATED KNAPSACK SPRAYER	Bhopale	Pro
RT0106	MODIFICATION IN DESIGN OF TRADITIONAL SEWING MACHINE WORKSTATION - AN ERGONOMIC APPROACH	Deshmukh	Pro
RT0107	DESIGN, MODIFICATION & FABRICATION OF ALPHANUMERIC PUNCHING MACHINE	Verma	Pro
RT0108	STUDY OF WHOLE BODY VIBRATION THROUGH MODIFICATION IN DESIGN OF VIBRATING CHAIR	Bhad	Pro
RT0109	FABRICATION OF PIPE CUTTING MACHINE	Kawale	Pro
RT0110	SOLAR OPERATED MATERIAL LIFTING AND TRANSPORTING DEVICE	Wasnik	Pro
RT0111	MODELING AND ANALYSIS OF GEARBOX CASING USING CAD-CAE TECHNIQUE	Polad	Pro
RT0112	MICROCONTROLLER BASED SEQUENTIAL TIMER	Mahalle	Pro
RT0113	DESIGN AND FABRICATION OF CHOPPER	Hande	Pro
RT0114	PRIORITY DRIVEN LOAD AUTOMATION USING VHDL	Mohod	Pro
RT0115	MMC CARD BASED WEATHER MONITORING SYSTEM	Samdekar	Pro
RT0116	UNMANNED GROUND COMBAT VEHICLE	Bhople	Pro
RT0117	ENVIRONMENT MONITORING SYSTEM USING ARDUINO	Pachkawade	Pro
RT0118	AUTOMATIC TOLL TAX COLLECTION	Turkar	Pro
RT0119	RFID BASED PASSWORD PROTECTED STUDENT DATA CARD	Tayde	Pro

RT0120	SMART LIBRARY MANAGEMENT SYSTEM USING RADIO FREQUENCY IDENTIFICATION	Gote	Pro
RT0121	AUTOMATED MEDICATION DISPENSING	Sonparate	Pro
RT0122	DESIGN AND IMPLEMENTATION OF HIGH RESOLUTION AND PRECISION MAINTAINING LCF DIGITAL METER	Khan	Pro
RT0123	RF BASED AUTOMATIC SPEED CONTROL OF VEHICLE FOR RESTRICTED ZONE	Bhende	Pro
RT0124	MICROCONTROLLER BASED EYE BLINK SENSOR FOR ACCIDENT PREVENTION	Pande	Pro
RT0125	DESIGN AND IMPLEMENTATION OF 8 BIT PROCESSOR IN SPLD USING VHDL	Parvi	Pro
RT0126	SMS BASED WIRELESS ELECTRONIC NOTICE BOARD USING GSM	Balkar	Pro
RT0127	LAND ROVER ROBOT	Nerkar	Pro
RT0128	MIGRATING DESKTOP APPLICATIONS ON WEB	Ghom R P	Pro
RT0129	ELECTRONIC CUSTOMER RELATIONSHIP MANAGMENT ECRM	Kanherkar R J	Pro
RT0130	PHOTO WORLD WEBSITE	Gadling C V	Pro
RT0131	ONLINE BOOK SALE WITH MOBILE SMS	Pathade M S	Pro
RT0132	ONLINE SHOPPING	Malkhede V A	Pro
RT0133	ONLINE SECURE DOCUMENT STORAGE SYSTEM	Deshmukh M A	Pro
RT0134	ANCHOR- A SOCIAL NETWORKING SITE	Qureshi M N	Pro
RT0135	E- PAYMENT SYSTEM	Jaiswal M M	Pro
RT0136	ONLINE ASSIGNMENT ALLCATION AND EVALUATION SYSTEM	Thakre D B	Pro
RT0137	FEEDBACK SYSTEM	Nagale V R	Pro
RT0138	ONLINE POLICE COMPLAINT	Tatte A A	Pro
RT0139	INTELLIGEMT SECURITY APPICATION PROGRAM	Ambulkar P S	Pro
RT0140	COMPUTER RESOURCE MANAGEMENT (CRM)	Dongre A P	Pro
RT0141	NETWORK SERVER POSITIONING SYSTEM	Iande U B	Pro
RT0142	USBPRO	Pervez M Zakir	Pro
RT0143	INTERACTIVE STUDENTS FEEDBACK SYSTEM	Wasu, A.S.	Pro
RT0144	KEY-AGGREGATE CRYPTOSYSTEM FOR SCALABLE DATA SHARING IN CLOUD STORAGE	Vyasahare P S	Pro
RT0145	FILTERING OF UNWANTED MASSAGE FROM OSN USER WALL USING CONTENT BASED FILTERING METHOD	Thakare S N	Pro

RT0146	PERSONALIZED INFORMATION HUB ON MOOBILE	Khandare N G	Pro
RT0147	EMBEDDED BIOMETRIC ATM MACHINE	Barwat S A	Dr.
RT0148	IMPLEMENTATION OF BIGDATA NOSQL STORE FOR GLOBAL FINANCIAL TRANSACTIONS	Baraskar H S	Pro
RT0149	SALES DATAMART USING ETL (EXTRACT-TRANSFORM-LOAD)	Solanke C A	Pro
RT0150	AIML BASED VIRTUAL PERSONALITY	Pachgade T K	Pro
RT0151	LOAD BALANING WITH CLOUD COMPUTING	Hirpurkar T N	Pro
RT0152	DIGITAL NOTICE BOARD	Marathe N N	Pro
RT0153	A VOICE COLLING APPLICATION USING WI-FI TECHNOLOGY IN ANDROID OS	Upadhayay V V	Pro
RT0154	COLLABORATING NETWORK SECURITY AMONG HETEROGENEOUS SEVICES	Labde O M	Pro
RT0155	CRIME AND CRIMINAL INFORMATION SYSTEM	Deshmukh A V	Pro
RT0156	VIOLENCE CONTROL IN TRAFFIC SIGNAL USING SENSOR	Pali Priti S	Pro
RT0157	DEPARTMENT WEBSITE	Khandare Jayesh P	Pro
RT0158	ONLINE SECURED GATEWAY PAYMENT	Anasane Ankita N	Pro
RT0159	SHIPMENT TRACKING SYSTEM	Pradhankar Gaurav S	Dr.
RT0160	COMPARISON OF ARTIFICIAL AND NATURAL SAND WITH FLY ASH ON THE PROPERTIES OF CONCRETE	Mankar Akshay K	Pro
RT0161	PERFORMANCE OF PLASTIC FIBER REINFORCED SOIL	Bhruglastav V B	Pro
RT0162	EXPRIMENTAL STUDY OF NATURAL FIBER CONCRETE AND CONVENTIONAL CONCRETE	Tembhurnikar Amar S	Pro
RT0163	ASSESSMENT OF UNSIGNALIZED INTERSECTIONS	Gupta Swapnil D	Pro
RT0164	CONDITION ASSESMENT OF RCC ESE UNIT NDTR METHODS	Rathod Santosh D	Pro
RT0165	PERFORMANCE STUDIES ON CBR OF FLY ASK MIZED EXPANSIVE SOIL REINFORCED WITH NYLON FIBER	Daga Gaurav G	Pro
RT0166	SEISMIC ANALYSIS AND SESIGN OF RCC FRAME STRUCTURE	Shah Lubna S	Pro
RT0167	COMPARATIVE STUDY OF DESTRUCTIVE AND NON DESTRUCTIVE METHODS	Shah Shanu A	Pro
RT0168	DESIGN AND FABRICATION OF LEVER OPERATED KNAPSACK SPRAYER USING VANE PUMP	Adgokar Avirath C	Pro
RT0169	DEVELOPMENT OF SOYABEAN CROP CUTTER	Deshmukh Sanket H	Pro

RT0170	FABRICATION AND EXPERIMENTATION OF RECIPROCATING PENDULUM PUMP	Tayde Suraj A	Pro
RT0171	DESIGN AND FABRICATION OF SEED SOWING MACHINE	Chavhan Pankaj V	Pro
RT0172	USE OF BIODIESEL WITH ETHANOL DIESEL BLEND ON DIESEL ENGINE AND ITS TESTING AND PERFORMANCE	Mhatarmare Vaibhav G	Pro
RT0173	FISH LIKE PROPULSION SYSTEM	Jungare Sumit	Pro
RT0174	ADAPTIVE HEADLAMP WITH WING MIRRORS	Sakharkar Swaraj	Pro
RT0175	A CASE STUDY ON MINIMIZATION OF CASTING DEFECTS MODELING AND SIMULATION	Hashmi Faizan Ullah	Pro
RT0176	MICRO HYDRO TURBINE	Telgote Abhy V	Pro
RT0177	COMPRESSED AIR USED AS FUEL IN FOUR STROKE ENGINE	Meshram Subham S	Pro
RT0178	DESIGN AND MANUFACURING OF MULTIRATED OPERATED VACUUM CLEANER	Rathod A G	Pro
RT0179	STUDY OF EFFICIENCY BY SOLAR TRAKING SYSTEM	Bhatkar	Pro
RT0180	HYBRID WIND SOLAR ELECTRICITY POWER GENERATION	Dakhore Niraj A	Pro
RT0181	DESIGN AND FABRICATION OF LOW WEIGHT MAN DRIVEN AUTOMATIC SPRAYING MACHINE	Vyas P A	Pro
RT0182	TRAFFIC SIGNAL CONTROL SYSTEM USING IMAGE PROCESSING	Mahore Sanket R	Pro
RT0183	GREEN HOUSE MONITORING AND CONTROLLING USING ANDROID APPLICATION	Sarode K G	Pro
RT0184	SPEED & DIRECTION CONTROLLED AUTOOMOUS VEHICLE USING HAND GESTURE WITH TILT & FLEX SENSOR	Lande Varsha S	Pro
RT0185	HUMAN BODY PARAMETER MONITORING SYSTEM USING MICROCONTROLLER	Faizan Mohamad	Pro
RT0186	IMPLEMENTATION OF QPSK ON SPLD USING VHDL	Burghate Paresh K	Pro
RT0187	RFID BASED LECTURE ATTENDANCE SYSTEM	Bobade Priyanka D	Pro
RT0188	ANDROID AND GSM BASE HOME AUTOMATION	Wankhade Uday P	Pro
RT0189	FAULT DETECTION AND LOCATION IN TRANSMISSION LINE BY USING GSM	Sherekar Nayana G	Pro
RT0190	ELECTRONICALLY PROTECTED EXAMINATION PAPER	Patekar Rahul D	Pro
RT0191	AUTOMATED POWER WHEELCHAIR CONTROLLED BY HEAD MOTION	Gawande S M	Pro
RT0192	ELECTRONIC VOTING MACHINE USING	Kolhe Pallavi M	Pro

	FINGERPRINT		
RT0193	WIRELESS TRANSFER OF ELECTRIC ENERGY	Tembhare Shubham R	Dr.
RT0194	MULTIPLE DOCUMENT SUMMARIZATION USING NOVEL FUNCTION	Raja Vijal Suresh	Dr.
RT0195	IDENTIFYING INTERESTING USAGE PATTERNS IN TEXT COLLECTIONS	Gupta Shraddha S	Pro
RT0196	AUTOMATIC DISCRIMINATION IDENTIFICATION SYSTEM FOR CORPORATE COMPANIES	Rudey Akshay P	Pro
RT0197	DETECTION AND PREVENTION OF JAMMING ATTACK IN MANETS	Sable Kalyani P	Pro
RT0198	NOVEL ENCRYPTION AND HIDING ALGORITHM FOR DATA SECURITY	Kadu Prutvika S	Dr.
RT0199	IMPLEMENTATION OF ENERGY EFFICIENT ROUTING PROTOCOL FOR WIRELESS SENSOR NETWORK	Khanorkar Apeksha A	Dr.
RT0200	DYNAMIC KEY GENERATION FOR IMAGE STEGANOGRAPHY	Rajurkar Vishakha M	Dr.
RT0201	SECURE ENTERPRISE SEARCH ENGINE USING CONTENT FILTERING	Tayade Sagar A	Pro
RT0202	CONTENT SERCHING AND DELIVERY BASE ON USERS CONFIGURATIONS AND CRITERIA	Bhuyar Akhilesh B	Pro
RT0203	THE EXPERIMENTAL STUDY OF TRAFFIC MANAGEMENT SYSTEM FOR URBAN TRANSPORTATION	Chavan Ashishsinh R	Pro
RT0204	360 AIR COOLER	Mohod Arjun B	Pro
RT0205	DESIGN AND FABRICATION OF THREE AXIS HYDRAULIC TRAILER	Sonawane Shubham A	Pro
RT0206	WASHING MACHINE CUM DISHWASHER	Khan Azhar S	Pro
RT0207	DEVELOPMENT OF CONVEYOR FOR FMS LABORATORY	Kawadkar Gaurav A	Pro
RT0208	SOLAR WATER DISTILLATION	Patil Dhananjay S	Pro
RT0209	THARMAL ANALYSIS AND OPTIMIZATION OF ENGINE CYLINDER HEAD	Joseph Allen	Pro
RT0210	DESIGN AND DEVELOPMENT OF HPFM FOR CENTRIFUGAL PUMP	Ghormade Shubham R	Pro
RT0211	ANTI-GRAVITY ELECTRICITY POWER GENERATION	Deshmukh Abhilash S	Pro
RT0212	MANUAL PIPE BENDING MACHINE	Chuke Vicky V	Pro
RT0213	TRI CYCLE SWEEPING MACHINE	Dhawale Sagar R	Pro
RT0214	PAPER CUTTING MACHINE USING GENEVA MECHANISM	Taywade Ankush	Pro
RT0215	DESIGN DEVELOPMENT AND FIBRICATION OF LOW WEIGHT , LOW COST MANDRIVEN AUTOMATIC SPRAYING MACHINE	Gawande Akash T	Pro

RT0216	INDIRECT EVAPORATIVE COOLER	Gangale Saniraj S	Pro
RT0217	DESIGN AND FABRICATION OF LOW WEIGHT , LOW COST PRUNING AND PLUCKING DEVICE	Dhole Dhammadip B	Pro
RT0218	WIND OPERATED WATER PUMP	Burange Shubham D	Pro
RT0219	FABRICATION OF LOW COST PIPE CUTTING MACHINE	Pathan Nadimkha A	Pro
RT0220	DEVELOPMENT AND ANALYSIS OF MULTIPURPOSE, SPACE SAVING SEATING ARRANGEMENT USING BEST FROM WASTE MATERIAL	Wadhai Atish K	Pro
RT0221	FLYWHEEL EQUIPPED BICYCLE	Kukatkar Akshay S	Pro
RT0222	GROUNDNUT SEPARATOR	Agase Nilesh D	Pro
RT0223	DESIGN AND FABRICATION OF GROUNDNUT SHELLAR	Rathod Sachin R	Pro
RT0224	DESIGN AND FABRICATION OF FOUR WAY HACKSAW MACHINE	Kaware Bhavana G	Pro
RT0225	THEORETICAL AND EXPERRIMENTAL ANALYSIS OF HEAT TRANSFER IN DESERT COOLING SYSTEM	Ramtiratkar Mangesh A	Dr.
RT0226	RAPID PROTOTYPE MACHINE	Khadse Rohit S	Pro
RT0227	MODIFIED ERGONOMIC SEWING MACHINE WORKSTATION DESIGN	Netnaskar Shubham	Pro
RT0228	TEACHER GUARDIAN SCHEME	Deshmukh Abhishek V	Pro
RT0229	STUDENT PORTAL	Datkar Hrushikesh	Pro
RT0230	E-VOTING SYSTEM FOR ISTE NEW DELHI	Dhangare Swapnil	Pro
RT0231	ANDROID APP DEVELOPMENT FOR LOCAL SEARCH ENGINE	Ravankar Ankit R	Dr.
RT0232	WEB BASED MEDICAL SEARCH ENGINE USING ANDROID APPLICATION	Kaple Rutuja G	Pro
RT0233	MICRICINTROOLLER BASED AUTOMATIC RAILWAY GATE CONTROL	Sirsat Karishma	Dr.
RT0234	DIGITIZED INTEGRATED WEB BASED APPLICATION FOR STAFF WITH TMETABLE SCHEDULE	Umekar Pooja N	Pro
RT0235	STATE TRANSPORT SMART BOOKING SYSTEM	Bobade shubham V	Pro
RT0236	INTERACTIVE WEB APPLICATION FOR STUDENT AND FACULTY USING DATA MINING TECHNIQUES	Murai Ashwini R	Pro
RT0237	AN IMPLEMENTATION OF CLIENT SEVER DATA TRANSFER USING SOCKET	Kolte Shweta G	Pro
RT0238	OBSTACLE DETECTION BY USING ANDROID PHONES	Gobare Akshay A	Pro
RT0239	ONLINE FOOD ORDERING ANDROID APPLICATION SYSTEM	Dhore Sweta S	Pro

RT0240	EARTHQUAKE RESISTANT ANALYSIS AND DESIGN OF A BUILDING	Varma H R	Pro
RT0241	COMPARATIVE STUDY AND DESIGN OF A BUILDING BY USING MANUAL ANALYSIS AND STAAD-PRO AND E-TAB ANALYSIS	Pawar R S	Pro
RT0242	COMPARATIVE ANALYSIS OF G+2 RESIDENTIAL BUILDING BY MANUAL CALCULATIONS AND STAAD PRO	Kale A D	Pro
RT0243	SEISMIC ANALYSUS AND DESIGN OF EDUCATIONAL BUILDING AT AMRAVATI	Khandekar A G	Pro
RT0244	EVALUATION CORROSION LEVEL IN CONCRETE BY USING ELECTRICAL RESISTIVATY METHOD	Pimpalghare A T	Pro
RT0245	EVALUATION AND STUDY FOR DURABILITY OF CONCRETE USING SPECIAL CONCRETE WITH PARTIAL REPLACEMENT OF SAND AND CEMENT BY MARBLE AND PAPER WASTE	Chakolkar S P	Pro
RT0246	OVERVIEWS ON PROPERTIES OF PAVING BLOCKS BY USING WASTE MATERIAL AS AGGREGATES	Yawale S S	Pro
RT0247	GROUND IMPROVEMENT BY USING WASTE PLASTIC BOTTLES FILLED UP BY FLY ASH	Swarge S G	Pro
RT0248	WEED DETECTION AND AUTOMATIC SPRAYING OF HERBICIDES	Malte Priya R	Pro
RT0249	BLACK BOX FOR VEHICLE	Sabale Chetan P	Pro
RT0250	HOME AUTOMATION USING POWER LINE COMMUNICATION	Bhuskade Aditya R	Pro
RT0251	REAL TIME AUTOMIZATION IN INDIAN AGRICULTRE	Sawalkar Abhishek C	Dr.
RT0252	ULTRASOUND GESTURE RECOGNITION	Nile Akshay V	Pro
RT0253	FOOT STEP POWER GENERATION TO RUN AC LOADS	Sawai Jyoti S	Pro
RT0254	MICROCONTROLLER BASED INSTANT RESPONSE SYSTEM FROM NATURAL DISASTERS	Bhagat Prashik A	Pro
RT0255	FLASH FLOOD INTIMATION OVER GSM NETWORK TO THE STATION MASTER	Devghare Gourao Y	Pro
RT0256	AUTO RATIONING SYSTEM	Mahalle Radha R	Pro
RT0257	A MULTITASKING UN-MAN CEHICLE	Khandekar Rohit S	Pro
RT0258	STUDY AND EVALUATION OF MODELING CONGESTION AND ASSESSING LEVEL OF SERVICE FOR HIGHYWAYS IN NEW METRO POLITAN CITY	Katpelwar Maneet M	Pro
RT0259	TO STUDY THE REMEDIAL MEASURES OF TRAFFIC	Sande Rahul M	Pro

	CONGESTION FOR CBD AREA		
RT0260	STABILITY ANALYSIS OF SOIL NAILED SLOPE	Nichat Kalyani P	Pro
RT0261	EXPERIMENTAL STUDY ON EVALUATION OF COMPACTED SOIL CHARACTERISTICS BY ULTRASONIC PULSE VELOCITY	Thakre Radhika S	Pro
RT0262	DESIGN AND DEVELOPMENT OF MICROSCOPIC PARAMETERS OF MIXED TRAFFIC AT INTERSECTIONS	Wade Rashmi P	Pro
RT0263	STUDY OF COMPREHENSIVE HIGHWAY CORRIDOR PLANNING WITH SUSTAINABILITY PARAMETER	Khode Trishala S	Pro
RT0264	STUDY OF ROUNDABOUT FOR HETEROGENEOUS TRAFFIC CONDITION	Bhamare Mohak B	Pro
RT0265	TREATMENT OF WATER AND WASTE WATER USING MORINGA OLEIFERA	Naim Mohd.Adnan	Pro
RT0266	COMPARISON OF BRICKS MADE FROM VARIOUS WASTE MATERIALS	Pandav Likhit V.	Pro
RT0267	EVALUATION AND ASSESSMENT OF TENDERING AND CONTRACTING PROCESS OF SEVEN COUNTRIES	Badre Bharat R.	Pro
RT0268	ANALYSIS AND DESIGN OF WATER TANK USING STAAD-PRO	Tikait Kunal C.	Pro
RT0269	EFFECT OF ADMIXTURE ON PERVIOUS CONCRETE	Pote Nikhil	Pro
RT0270	TRAFFIC SIGNAL OPTIMIZATION FOR AMRAVATI CITY	Shrirao Mayur D.	Pro
RT0271	COMPARATIVE STUDY OF PERVIOUS CONCRETE	Khan Sharjeel S	Pro
RT0272	WASTE PLASTIC PAVING BLOCK	Patil Kshiteej D.	Pro
RT0273	DESIGN OF WASTE TREATMENT PLANT A CASE STUDY FOR DR RAJENDRA GODE TECHNICAL CAMPUS	Gulhane Aashlesha P	Pro
RT0274	ANALYSIS AND PERFORMANCE OF INFILL WALL IN R.C. FRAME STRUCTURE	Ameen Mohammad Faisal	Pro
RT0275	REUSE OF LATHE STEEL SCRAP IN RIGID PAVEMENT	Korde Sonali S	Pro
RT0276	SCRAP TYRE RUBBER MODIFIED ASPHALT PAVEMENT	Bhetalu Shivarpan D	Pro
RT0277	HYDRULIC DESIGN OF WATER DISTRIBUTION NETWORK BY EPANET	Adhau Shubham C	Pro
RT0278	DESIGN AND DEVELOPMENT OF TRAFFIC PARAMETERS FOR HETEROGENEOUS CONDITIONS	Talokar Saurabh V	Pro
RT0279	AUTOMATIC ENGINE LOCKING SYSTEM WITH ALCOHOL DETECTOR BY USING ARDUINO UNO3	Chaudhari S K	Dr.
RT0280	FOOT STEP POWER GENERATION	Chim S R	Pro

RT0281	SMS ALERT SYSTEM FOR WOMEN,S SECURITY USING SMART WATCH	Mohod R	Pro
RT0282	DEIGN AND IMPLEMENTATION OF EFFICIENT POWER SAVING THROUGH IMAGE PROCESSING	Kakade D D	Pro
RT0283	E-NOTICEBOARD USING RASPBERRY PI	Kalaskar P A	Pro
RT0284	GSM BASED HOME AUTOMATION SYSTEM	Deohate S S	Pro
RT0285	RAILWAY E-TICKETING	Lekurwale S U	Dr.
RT0286	AUTO UPDATING TIMETABLE SCHEDULING MANAGEMENT	Dharamthok P V	Pro
RT0287	PERFORMANCE OF VERTICAL AXIS WIND TURBINE (VAWT) WITH CLOSE CASING AND TUNNELLING EFFECT	Bhandarkar Anurag D	Dr.
RT0288	PERFORMANCE ANALYSIS OF ROTARY COTTON SEED DRYER	Kariya Kapil Narendra	Dr.
RT0289	THARMAL ANALYSIS OF PROCESS OF STEAM GENERATION BY FRESNEL LENS SOLAR CONCENTRATOR	Kharabe Amit S	Dr.
RT0290	HEAT TRANSFER ANALYSIS BY USING PHASE CHANGE MATERIALS THROUGH A CONCRETE BLOCK	Ingole Pawan R	Pro
RT0291	STUDY AND FABRICATION OF THERMOELECTRIC AIR COOLER	Damedhar Manish A	Pro
RT0292	PLASTIC MELTING USING SPHERICAL PARABOLIC REFLECTOR	Tiple Sachin U	Pro
RT0293	CONCEPT AND FABRICATION OF RIVER CLEANING SYSTEM	Kawale Dhiraj D	Pro
RT0294	COMPRESSOR LESS THERMOELECTRIC REFRIGERATOR	Sao Anmol	Pro
RT0295	NON CONVENTIONAL REFRIGERATION VORTEX TUBE	Kavitkar Anuj C	Pro
RT0296	COMPRESSED AIR ENGINE	Raut H M	Pro
RT0297	CANL TOP SOLAR HYDRO POWER GENERATION	Kharabe Lilesh R	Pro
RT0298	PEDAL OPERATED THRESHER	Dhuriya Vishal M	Pro
RT0299	DESIGN AND FABRICATION OF MULTIGRAIN VERTICAL THRESHER MACHINE	Tagade Pradip M	Pro
RT0300	MODELING AND DEVELOPMENT OF MULTIPURPOSE SPACE SAVING WHEELCHAIR MACHANISM	Anokar Aniket P	Pro
RT0301	SOLAR OPERATED SEGWAY WHEELS	Sunde Kapil	Pro
RT0302	AUTOMATIC PARKING SYSTEM	Alaspure Harshad V	Pro
RT0303	EVALUATION OF MODIFIED SEWING WORKSTATION BY TAGUCHI METHOD	Lunge Pranav D	Pro

RT0304	DESIGN AND IMPLIMENTATION OF RAILWAY TRACK OBSTACLES AND CRACKS DETECTIVE VEHICLE	Godghase Ajay B	Pro
RT0305	FOOT OPERATED BIKE	Gotey Amol L	Dr.
RT0306	DESIGN AND IMPLIMENTATION OF INTELLIGENT MATERIAL SORTING	Lakade Bhushan S	Pro
RT0307	AUTOMATIC PNEUMATIC BUMPER SYSTEM WITH BREAKING	Ingole Vaibhav S	Pro
RT0308	VERTICAL AXIS WIND TURBINE	Hade Rohan	Dr.

4.2.3 Does the institution have the following:

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

A. Any 4 of the above

B. Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

Response: A. Any 4 of the above

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

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

Response: 12.9

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

2016-17	2015-16	2014-15	2013-14	2012-13
2.366	3.064	14.078	16.31	28.661

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

4.2.5 Availability of remote access to e-resources of the library	
Response: Yes	
File Description	Document
Details of remote access to e-resources of the library	View Document

4.2.6 Percentage per day usage of library by teachers and students	
Response: 9.83	
4.2.6.1 Average number of teachers and students using library per day over last one year	
Response: 131	
File Description	Document
Details of library usage by teachers and students	View Document
Any additional information	View Document

4.3 IT Infrastructure

4.3.1 Institution frequently updates its IT facilities including Wi-Fi			
Response:			
At Institute, the central computing facility, main office, laboratories, faculty room, class rooms, library etc. are well equipped with PCs which are connected through local area network (LAN) and Wi-Fi for the effective use of internet. Institute always deploy and upgrade the IT facilities, Wi-Fi Technologies and Internet with addition of PCs with latest configuration. Institute has following IT facilities as mentioned below along with the date and nature of upgradation:			
Sr.No.	Facility	Nature/Feature/Speed	Updati
1.	Two Netgear Routers	10/100 Mbps	31/05/2
2.	Internet Connection From Reliance Communication Ltd.	3 Mbps Speed Wireless Connection	08/09/2
3.	Two Switches	16 Ports, 10/100 Mbps	11/10/2
4.	Two Switches	8 Ports, 10/100 Mbps	11/10/2
5.	Six Netgear Switches	24 Ports, 10/100 Mbps	08/11/2

6.	Six Wi-Fi Netgear Routers	10/100 Mbps	18/11/1
7.	Two Cisco Switches	10/100 Mbps	12/01/1
8.	Internet Connection From BSNL under NMEICT	10 Mbps Leased Line	28/01/1
9.	Netgear Switch	10/100 Mbps	28/02/1
10.	Five Asus Wi-Fi Routers	10/100 Mbps	23/05/1
11.	Internet Connection From BSNL	100 Mbps Leased Line	14/06/1
12.	Dlink Switch	24 Ports, 10/100/1000 Mbps	22/11/1
13.	Dlink Manageable Switch	24 Ports, 10/100/1000 Mbps	22/11/1

4.3.2 Student - Computer ratio

Response: 3.23

File Description	Document
Student - Computer ratio	View Document

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

<5 MBPS

5-20 MBPS

20-35 MBPS

35-50 MBPS

Response: >=50 MBPS

File Description	Document
Details of available bandwidth of internet connection in the Institution	View Document

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

Response: Yes

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:** 17

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)

2016-17	2015-16	2014-15	2013-14	2012-13
114.56	82.36	39.19	48.41	66.17

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:****MAINTENANCE SYSTEM:**

The management promotes improvement in infrastructure and ensures maintenance of existing buildings. Necessary budget is allocated to upgrade and create needed infrastructure.

The general maintenance of infrastructure is looked after by the Maintenance Department of the institute. Infrastructural facilities are provided to create a better and congenial atmosphere for effective teaching and learning.

Entire maintenance of the college campus which includes, civil work maintenance, water works maintenance, electrical work maintenance and other miscellaneous maintenance work is monitored by the Maintenance Department.

Maintenance Department is established including Estate officer, technical and non-technical staff for civil maintenance, electrical maintenance, general maintenance, housekeeping and campus cleaning, gardening and maintenance of greenery on the campus.

Computing facilities are maintained by the respective departments through Hardware Engineers and Technical supporting staff under the guidance of HoDs.

All the electrical and Electronic equipments fitted in different positions in the Institute are maintained by Technical supporting staff. The information about maintenance activities and related incharge is mentioned as follows:

Sr.No.	Academic / Physical Infrastructure	Dept / Agency	Staff In-Charge
1	Computers and Printers	CSE Dept	Dr. H. R. Deshpande
2	RO/UV water purifiers	Eureka Forbes Trimutri Enterprises	Prof. M. R. Dhokte Nitin Deshmukh
3	Central library and reading hall	Library Staff	Prof. K. R. Patil
4	Central computing facility	CSE Dept	Mr H. D. Wankar
5	Webmaster, Maintenance of Institutional website	CSE Dept	Prof. O. A. Jaisankar
6	Power backup Powerika Gen set, 125 KVA	Vimal Agencies Akola	Prof. M. R. Dhokte Prasant Gawande
7	Play ground	In-house maintenance	Prof. Mahalle
8	Internet Security	CSE Dept	Mr V S. Patil
9	Housekeeping	In-house maintenance	Estate Manager
10	Fire Extinguisher	Muzumadar Enterprises Amt & Amravati Fire Services	Prof. M. R. Dhokte
11	Electrical	In-house maintenance	Prof. R. R. Solankar
12	Furniture	In-house maintenance	Prof. M. R. Dhokte
13	Civil work	In-house maintenance	Prof. V. G. Jambhale
14	Plumbing	In-house maintenance	Prof. A. A. Kalaskar
15	Campus Security	Hindustan Security	Estate Manager
16	Garden	In-house maintenance	Prof. V. A. Fulke

Functions of the committee:

- Proper upkeep and maintenance of the buildings
- Maintenance of the surroundings
- Carrying out minor repairs of furniture, electrical and sanitary fitting
- Maintenance of the roads, water tanks and other services in the compound
- Maintaining security
- Ensuring the safety requirements in the college.

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: 76.04

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

2016-17	2015-16	2014-15	2013-14	2012-13
1109	909	1036	1086	1197

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

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: 15.41

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

2016-17	2015-16	2014-15	2013-14	2012-13
492	230	192	134	7

File Description	Document
Number of students benefited by scholarships and freeships besides government schemes in last 5 years	View Document

5.1.3 Number of capability enhancement and development schemes –

1. 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

A. 7 or more of the above

B. Any 6 of the above

C. Any 5 of the above

D. Any 4 of the above

Response: A. 7 or more of the above

File Description	Document
Details of capability enhancement and development schemes	View Document
Link to Institutional website	View Document

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

Response: 42.23

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

2016-17	2015-16	2014-15	2013-14	2012-13
703	685	521	456	558

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

5.1.5 Average percentage of students benefited by Vocational Education and Training (VET) during

the last five years**Response:** 24.23**5.1.5.1 Number of students attending VET year wise during the last five years**

2016-17	2015-16	2014-15	2013-14	2012-13
322	345	440	338	248

File Description**Document**

Details of the students benefitted by 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**

Details of student grievances including sexual harassment and ragging cases

[View Document](#)

Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee

[View Document](#)**5.2 Student Progression****5.2.1 Average percentage of placement of outgoing students during the last five years****Response:** 21.3**5.2.1.1 Number of outgoing students placed year wise during the last five years**

2016-17	2015-16	2014-15	2013-14	2012-13
130	137	70	45	32

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

5.2.2 Percentage of student progression to higher education (previous graduating batch)	
Response: 2.48	
5.2.2.1 Number of outgoing students progressing to higher education	
Response: 12	
File Description	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/ TOFEL/ Civil Services/State government examinations)											
Response: 2.87											
5.2.3.1 Number of students qualifying in state/ national/ international level examinations (eg: NET/SLET/GATE/GMAT/CAT, GRE/TOFEL/Civil Services/State government examinations) year wise during the last five years											
<table border="1"> <thead> <tr> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> <th>2012-13</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>2</td> <td>1</td> <td>1</td> <td>2</td> </tr> </tbody> </table>		2016-17	2015-16	2014-15	2013-14	2012-13	0	2	1	1	2
2016-17	2015-16	2014-15	2013-14	2012-13							
0	2	1	1	2							
5.2.3.2 Number of students who have appeared for the exams year wise during the last five years											
<table border="1"> <thead> <tr> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> <th>2013-14</th> <th>2012-13</th> </tr> </thead> <tbody> <tr> <td>40</td> <td>37</td> <td>43</td> <td>41</td> <td>48</td> </tr> </tbody> </table>		2016-17	2015-16	2014-15	2013-14	2012-13	40	37	43	41	48
2016-17	2015-16	2014-15	2013-14	2012-13							
40	37	43	41	48							
File Description	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: 15

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

2016-17	2015-16	2014-15	2013-14	2012-13
2	5	5	2	1

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:

The students' council is formed every year as per the notification and directives received from SGB university, under the provisions of section 40 (2) (b) of Maharashtra University Act 1994, consisting following members.

- Principal as Chairman
- One teacher nominated by Principal
- NSS program officer
- One student from each class, who has shown academic merit in examination held in preceding year and who is engaged in full time studies in the college nominated by Principal
- Director of sports and physical education
- One student from each of the following activities who has shown outstanding performance nominated by Principal, namely Sports, NSS, cultural activities, magazine.
- Two girl student members nominated by Principal

The college has an active student council:

Activities organized by student council – Various co-curricular, extracurricular and cultural activities are

organized by the student council members along with the faculty coordinators

- 1) Annual tech-fest '**E-Dazzled**', various workshops and seminars are organized and looked after by technical secretary and assistant technical secretary along with student volunteers.
- 2) The placement cell representatives help TPO in various placement activities. They also act as interface between students and TPO, for any issues or problems faced by students.
- 3) The magazine team under the leadership of magazine secretary publishes college magazine and various department newsletters. The processes like collecting the material, editing, Designing and publishing are conducted by students.
- 4) The sports secretary organizes and conduct intra collegiate sports tournament.
- 5) The students enthusiastically organize and participate in various cultural events. The university representative, general secretary and cultural secretary play major role in the organization of the annual cultural festival 'Rhythm'.
- 6) Our Students play vital role in cultural event like "Youth festival" organized by SGBAU at different district.

Representation of students on academic & administrative bodies/committees of the institution

The institute strongly believes that students are the future of the nation, so they must be capable to handle any responsibility, so their involvement is necessary for the Overall progress of the institute and the nation. The institute has formed following academic and administrative bodies which have student representatives.

- Anti-ragging committee: One senior student and one junior student from each department are members of the committee. Their feedback helps to understand issues, if any, at an early stage.
- Student welfare committee
- Student chapters like ISTE.
- Departmental students associations like MESA,ETA,CESA.
- Placement cell: Elected placement representatives help TPO in arrangement of various activities related to placement
- Canteen committee: One student from each department is the member of the committee, they provides feedback regarding the food and hygiene of the canteen.
- Bus Committee
- Students Co-operative Store
- Women grievances committee

Student representatives actively participate in the functioning of the above committees.

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

Response: 14.2

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

2016-17	2015-16	2014-15	2013-14	2012-13
11	16	16	14	14

File Description	Document
Number of sports and cultural activities / competitions organised per year	View Document
Report of the event	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 by the institute is formed with the following objectives

DRGIT&R Alumni Association is dedicated to fostering and encouraging lifelong connections between alumni and Institute through interactions and initiatives to seek recognition globally.

Institute has an alumni association branded as '*BANDHAN*' which organizes meets every year. The institute is currently under process of registering the Association. All the passed out students of the institute are active members of the Alumni Association. The Alumni members are spread around India and abroad.

Institute is organising alumni meet since Year 2014. The alumni are invited to deliver guest lectures and also as the resource persons for workshops and seminars on recent trends in technology. They also share their professional experience and motivate the students. The alumni actively participate as judges in various technical and non-technical competitions organized at the institute. As a stake holder, alumni contribute towards the design of curriculum and enhancing employability potential of students which tends to bridge industry academia gap. Institute is focusing alumni participation in providing industrial training, internship and placements for the existing students.

The activities executed by Alumni are as follows :

- Conducting Mock Placement drives and resume writing, GD & PI sessions for enhancing placements of the current students.

- Arranging guest lectures by alumni members on current technical and non-technical topics as per need from the Industry.
- Donating various books to library for the needy students

5.4.2 Alumni contribution during the last five years

<1 Lakh

1 Lakh - 3 Lakhs

3 Lakhs - 4 Lakhs

4 Lakhs - 5 Lakhs

Response: <1 Lakh

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:** 4**5.4.3.1 Number of Alumni Association /Chapters meetings held year wise during the last five years**

2016-17	2015-16	2014-15	2013-14	2012-13
1	1	1	1	0

File Description	Document
Number of Alumni Association / Chapters meetings conducted during the last five years.	View Document
Any additional information	View Document

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:

Effective leadership by setting values and participative decision-making process is key not only to achieve the vision, mission and goals of the institution but also in building the organizational culture.

The vision statement- “To be the flagship of universally acceptable new ideas and innovations.”

The mission statement- “To provide synergic environment where new ideas, creativity flourish and to nurture disciplined think-tank leaders and competent human resource in science and Technology to confront global challenges”.

The top management of the Institute comprises-Governing Body, Local Management Committee, Principal, HODs, Plays significant strategic role in realizing Institute’s vision directed towards positioning the Institute in the realm of top ranking institutes in the country. The Management interacts at regular intervals with Local Management Committee, Principal and HODs to review the implementation process of the quality plans. To maintain and improve the quality of infrastructure, faculty, teaching-learning process and research necessary provisions are made by providing the funding.

The Principal is an active member in deciding the quality policy and preparing the action plans leads the faculty while the action plan is being implemented within the Institute and provides directions to the faculty and coordinates them. Communicates the opinion of the Top Management to the faculty and staff regarding the responsibilities and duties assigned to each component of the Institute.

The entire academics and administration of the department is supervised by HOD alongwith preparation of the budget proposals for purchase of laboratory equipments and consumables, renovation work, books and periodicals. Further, student counseling within the department is monitor, conduct departmental meeting regularly, recommend staff members for higher studies as well as attending Seminars, Conferences, STTP, Workshops, etc.

Teachers play diverse roles at various levels in the entire value chain of academic and related processes and are responsible for plan and delivery of course contents.

The Institute believes in promoting a culture of decentralized governance system. The Institute decentralizes the authority and provides operational autonomy to the Principal, HODs and various committee coordinators. The institute has formulated **perspective plans** for development in following areas like new infrastructure, Academic achievements/ new programs, Research, Establishing MOUs with industries and national organizations and research agencies for collaborative research. The perspective plans and action plans are formulated by the top management, Principal, HoDs with an objective of progressing towards realization of the vision. Academic calendar, lesson plans etc. are prepared for smooth conduction of academics. Various committees like Academic Monitoring, Research, Counselors, Training & Placement Cell, Sports, Cultural etc. are formed for effective implementation of action plan. Academic

leadership is required for the Institute's progress towards achieving the vision, mission, goals and objectives. The top management gives full freedom to faculty members to present their suggestions and views for the Institute development.

6.1.2 The institution practices decentralization and participative management

Response:

Decentralized governance is ensured in the Institute having separate committees for each activity. Few levels of decentralization are listed under:

Top Management

The Governing body provides directions and guidelines to work in alignment with the vision and mission of the institution

Principal

The Top Management delegates the authority and gives freedom and flexibility to the Principal together with various academic committees to lead all the academic activities of the college. Regular meetings are held between them to take necessary steps for formulation and implementation of strategic plans.

Head of the department

Authority is delegated by Principal to all the HOD's for functioning of the departments. HODs are responsible for planning and monitoring the academic activities of their respective department. HODs report to the Principal regarding their academic progress. They have freedom of taking necessary action for overall academic excellence and monitoring of the department.

In-charge of various central committees

Faculty members are involved with various academic and administrative committees at central level. These committees are headed by senior faculty members who have freedom of taking necessary action in consultation with the Principal for overall controlling and monitoring of their committee's work.

Faculty

Faculties have freedom on expressing their ideas related to academic excellence and innovations. Ideas are promoted at higher level by the respective HODs through proper channel. There are various departmental committees who have freedom to organize events under department professional bodies or otherwise.

Students

Class representative get opportunities to represent their classes. Cultural secretary, General Secretary and sports secretary are selected from the students. Each department has students associations. They are

authorized to take the minor decisions in relation to the activity assigned to them in consultation with the faculty advisor assigned for that activity. Thus, it can be clearly seen that there is an unbroken chain of authority coupled with sense of responsibility right from top management to faculty members and even students.

Case Study: Organization of International Conference

As a part of research promotion programme, International conferences have been organized by the institute. The roles of all stakeholders are well defined which indicates the decentralization of authority and their participative management in smooth conduct of the various activities in the institute:

Stakeholders	Role and responsibility
Governing Body	<ul style="list-style-type: none"> To provide the operational authority and financial support to the institution.
Principal	<ul style="list-style-type: none"> To make policy related to the planning and execution of the event.
Conference Chair	<ul style="list-style-type: none"> To ensure the execution of all policy decisions effectively. To delegate authority to various committees and monitor the timely execution of the activities.
Head of Department	<ul style="list-style-type: none"> To ensure implementation of activities. To delegate responsibilities to the staff members for effective implementation. To act as a bridge between the conference chair and the faculty members.
Coordinators/ Committee incharge	<ul style="list-style-type: none"> To assist in the various delegated activities. To help in timely delivery of assigned tasks.
Students	<ul style="list-style-type: none"> To participate as volunteers in various committees. To ensure smooth conduction of the activities at ground level.

6.2 Strategy Development and Deployment

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

Response:

The perspective plan as per the vision statement of the institute focuses towards the overall development of Institute including infrastructure, academics, research, conferences, co-curricular activities etc. The Perspective Plan was prepared in year 2012. The draft of Perspective Plan was discussed, reviewed and approved in the Local Managing Committee of the College. Following new programmes were added:

Year	Programme	Level
2013-14	Electronics and Telecommunication Engineering (Direct Second Year)	UG

	Electronics and Telecommunication Engineering	PG
2014-15	Geotechnical Engineering	PG
	Computer Engineering	PG

Due to less response towards admissions, following programmes were closed.

Year	Programme	Level
2016-17	Information Technology	UG
	Mechanical Engineering (Direct Second Year)	UG
	Electronics and Telecommunication Engineering (Direct Second Year)	UG
	Geotechnical Engineering	PG
	Computer Engineering	PG
	Electronics and Telecommunication Engineering (Reduction in intake)	UG

Example of activity successfully implemented on the basis of strategic plan:

International Conference on Emerging Trends and Research in Engineering and Technology

Research culture among teachers and students is imbibed by organizing conferences, seminars and workshops. 1st International Conference on 'Emerging Trends and Research in Engineering and Technology' was organized in the institute during 2012-13. It helped teachers and students to explore hidden research potential by presenting their original work. Peer review process was adopted and selected research papers were presented in conference and further forwarded to International Journal of Pure and Applied Research in Engineering and Technology (IJPRET, ISSN: 2319-507X) for publication. The Institute has organized this conference for four consecutive years.

The proposal for organizing this conference was thoroughly discussed and approved by Local Managing Committee in the year 2012-13. 1st International Conference was organized in the institute during March 2013 in which 276 research papers were presented.

Objectives:

- To provide interdisciplinary forum for teachers, engineers, researchers, student & technocrats
- To discuss and promote research & technology transfer of advances in Engineering & Technology.
- To provide free flow of ideas, particularly concerning interdisciplinary aspects of research.

Outcomes of the International conference

- Paper presentation at the conference built the platform for the interactive sessions which helps institute stakeholders to cope up with new technological concepts.
- Teachers & students presented papers regarding their work; it created the environment of research and advent of technology.
- In view of students, this platform led them to embrace the qualitative practices in research.
- Conference has been succeeded in maintaining the presence of stalwart personalities of research.
- The presence of eminent scientists in the various sessions of the conference encouraged the budding

researchers to fulfill the research ambitions of students and faculties.

The response to the conference in terms of research papers presented has been phenomenal every year. The successful organisation of the conference has been a boon for the teachers and students creating the interest in the area of research and consistency in their work. The interaction of researchers from various institutes must have helped to create a very positive impact on the scholars in future.

File Description	Document
Any additional information	View Document
Strategic Plan and deployment documents on the website	View Document
Link for Additional Information	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:

The college has a well framed internal organizational structure for decision making processes and their effectiveness. Local Managing Committee (LMC) is the apex body which decides academic and administrative policies. The administration of the Institute is managed by the following bodies.

Local Management Committee: The Local Management Committee is the Statutory Body, formed as per Section 85 of the Maharashtra Universities Act, 1994. The powers and duties of LMC are stated in the same. The LMC comprises elected representatives of teaching and non-teaching staff, Chairman, Secretary and a representative of Management and experts from various fields. This Committee can make recommendations for the improvement and up gradation of existing academic and extracurricular activities.

The Principal of the college heads both the academic as well as the administrative sections and is overall incharge of the college. The Principal looks after the day to day operations within the Institute. The Principal is involved in overlooking the implementation of the plans of the College through feedback from conveners, teaching and non-teaching staff.

Head of Departments are appointed to assist the Principal in effective functioning of the institute. The Heads of Departments ensure that the plans communicated to them by the Principal are implemented systematically.

Academic support units like central library and workshop support the academic programs. Other administrative support units in the college help in monitoring and facilitating several administrative functions and make administration open and transparent. The decentralization of power is evident from the structure.

Committees for co-curricular and extra-curricular activities The committees are formed at the beginning of the year and are assigned the tasks according to the institutional plans, for the co-curricular activities that enhance overall development of students.

Administrative Committees [Examinations, Admissions, Attendance, Library, etc.]

For the smooth conduct of all administrative activities according to requirements of academic bodies and government rules, there are committees headed by senior faculty to guide the function.

Grievances Redressal Mechanism:

The institute has a distinct policy regarding the complaint redressal mechanism in various sections. Complaint boxes/ Suggestion boxes are available in the campus at various places. These boxes are opened by members of grievances redressal cell. The complaints or suggestions are categorized accordingly and submitted to the related sections.

The complaints received from students as well as staffs are dealt accordingly at the level of:

- Principal
- Head of Department
- Examination Cell
- Grievances redressal Cell
- Sexual Harassment Cell
- Anti-ragging Cell
- Committees constituted for resolving various issues.

As far as possible, the complaints are resolved quickly and the complainants are informed accordingly. If necessary, changes are made in rules to curb problems in future.

The Institute follows the Service rules, procedures, recruitment, and promotional policies as per the AICTE /DTE/ SGBAU guidelines.

File Description	Document
Any additional information	View Document

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

A. All 5 of the above

B. Any 4 of the above

C. Any 3 of the above

D. Any 2 of the above

Response: E. Any 1 of the above

File Description	Document
Screen shots of user interfaces	View Document
ERP Document	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:

The institution has constituted various committees for the smooth running of the institution. These committees collect data, analyze the same and prepare reports for management's review. The Principal monitors these committees and evaluate policies and plans of the institution. Further, the LMC meeting is organized once in a year to discuss the progress of the institution and take strategic decisions for further development. The policies and plans of the institution are discussed and updated based on the outcomes of these meetings.

Example of one activity successfully implemented:

Academic Monitoring Committee:

In order to maintain strict adherence to academic policies of the institute, Academic monitoring committee is constituted in the institute.

The committee has its own objectives to be achieved. The functions of this committee are well monitored, documented and reviewed by conducting periodical meetings for imparting guidelines or necessary changes for improvements.

The in-charges in consultation with the committee members prepare a plan before the commencement of each semester. The committee meets monthly in the presence of the Head of the Institute to review/monitor various activities executed/to be executed.

One staff member from each department is designated as the Academic incharge. The role of the academic incharge is:

- To monitor the academic progress of students through their attendance and performance in the class tests
- To ensure that the syllabus coverage is as planned in the beginning of the semester.
- To conduct periodic feedback sessions for the students orally / in writing.
- To arrange remedial sessions for slow learners.
- To act as bridge between academic monitoring committee and the department.

Academic incharge from all departments report to Dean Academics, who reviews performance of students as well as staff members and reports the same to Principal.

Based on the inputs from Dean Academics and Principal, the heads of departments conduct regular meetings with the staff to review the activities. The proceedings of the meetings conducted for strategizing the effective implementation of guidelines are well documented. The minutes of meeting of the Academic monitoring committee are communicated to all staff members.

Dean visits each department periodically to ensure strict adherence to the policies.

Members of this committee monitor the instruction delivery on a regular basis so as to record the progress in theory classes and practical sessions. Students' attendance is monitored and corrective actions are taken if required by informing the parents. Feedback is taken from the students with regards to conduction of lectures and practical sessions. This feedback is conveyed to faculty for necessary action so as to improve the teaching learning process

6.3 Faculty Empowerment Strategies

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

Response:

Following welfare schemes are available for teaching and non-teaching staff associated with the institute.

- Partially supported Mediclaim Facility
- Paid Maternity leave.
- Permission to leave early (2Hrs) for ladies staff members whose children are below one year.
- Need based training programmes are arranged by the institute for the faculties.
- Faculty members are encouraged and permitted to attend STTP/Seminars/Workshops/ Conferences conducted at different institutions.
- ATM facility in the campus
- Provision for provident fund and Gratuity.
- Recreational facilities
- Annual free Medical checkup is organized for teaching & non-teaching Staff.

Sr.no.	Welfare measures	Percentage of Employee Availing Benefits				
		2012-13	2013-14	2014-15	2015-16	2016-17
1	Provident Fund	100	100	100	100	100
2	Causal Leave	100	100	100	100	100
3	Gratuity	0	0	15.38	17.77	18.08
4	Free Medical Check-up Facility	100	100	100	100	100

5	Fess Concession	0	0.91	0.96	1.11	0
6	Mediclaim Facility (Partially Supported)	1.08	1.81	1.90	3.33	5.31
7	On -Duty facility for pursuing research activities	8.69	6.36	8.65	10	8.51
8	On-Duty Facility for attending workshops/STTP etc.	15.22	13.64	15.38	36.67	45.74
9	Maternity leave with salary	0	0	1.92	1.11	0
10	ATM facility in the campus	100	100	100	100	100
11	Recreational Facilities	100	100	100	100	100

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: 20.55

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

2016-17	2015-16	2014-15	2013-14	2012-13
24	29	26	22	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: 6

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

2016-17	2015-16	2014-15	2013-14	2012-13
5	2	9	6	8

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 programmes viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programme during the last five years

Response: 25.11

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

2016-17	2015-16	2014-15	2013-14	2012-13
43	33	16	15	13

File Description	Document
IQAC report summary	View 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:

Institute has performance appraisal system to recognize the efforts taken by staff. Performance appraisal helps to upgrade the faculty to higher roles and Responsibilities. A format for annual appraisal has been created. Standard self-performance appraisal format is filled by individuals and submitted to the Principal through the Head of Department at the end of academic year. The performance of faculty is analyzed through the details provided by them in the self appraisal form. The data is collected and analyzed qualitatively and quantitatively for the performance of staff towards key indicators like:

- Academic background
- Courses/STTP attended during the year.
- Academic performance information
- Teaching, learning and evaluation related activities
- Co- curricular, extension, professional development related activities
- Research publications and academic contributions.

- Other relevant information.

The head of departments reports the contribution and performance of the staff members in various activities. The feedback of students towards the subject teachers are also taken into consideration.

Self appraisal by staff members and the remarks of the HoD are then submitted to Principal who reviews the appraisal forms. Staff members' performance is discussed and opportunities are created to improve the same. Appraisal is reviewed based on the performance. Suitable appreciation is given to the deserving ones by the management.

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

Response:

The accounts and procedures of internal control of finance are carried out by the head of the accounts team on a day to day basis and annual audit is done by the statutory auditor.

The audit of accounts and submission of income tax returns are being carried out regularly for each year. No objections are raised as the institution follows a good system of internal controls like calling quotations, comparison of rates, preparation of purchase order etc., and approvals at every stage of such implementation and due verification of goods and services that are obtained after delivery or completion of works. No expenses are incurred without proper approval or sanction by the head of the institution or HoDs of various departments.

The College has a mechanism for internal and external audit. The details are as given below:

Internal Audit:

Internal audit is carried out by the appointed internal auditors from parent society IBSS Buldana. Quarterly audits are carried out by internal auditor team. Discrepancies, if any, are informed by the internal auditors to the Principal. Otherwise information is submitted to the Chairman of IBSS.

External Audit:

An external auditor is appointed by the college which performs an audit of the financial statements of the college. The financial records of the College are audited after the end of each fiscal year and are certified.

The list of all internal and external financial audits has been given in the following table. No major or minor objections have been raised by the auditors whatsoever during any audit.

List of various financial audits conducted during last five years:

Fiscal year	Internal Audits	External Audit
2012-13	Quarterly Audit-June	Annual Audit

	Quarterly Audit-September Quarterly Audit-December Quarterly Audit-March	
2013-14	Quarterly Audit-June Quarterly Audit-September Quarterly Audit-December Quarterly Audit-March	Annual Audit
2014-15	Quarterly Audit-June Quarterly Audit-September Quarterly Audit-December Quarterly Audit-March	Annual Audit
2015-16	Quarterly Audit-June Quarterly Audit-September Quarterly Audit-December Quarterly Audit-March	Annual Audit
2016-17	Quarterly Audit-June Quarterly Audit-September Quarterly Audit-December Quarterly Audit-March	Annual Audit

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

Response: 0.52

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

2016-17	2015-16	2014-15	2013-14	2012-13
0.07	0.35	0.1	0	0

File Description	Document
Annual statements of accounts	View 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 college has a well formulated financial policy which ensures effective and optimal utilization of finances for the purpose of :
 - Academic
 - Research & Innovations
 - Administrative
 - Development

which help ultimately in realizing the institute's vision and mission.

- In the beginning of every academic year, the budget is prepared by all departments in the prescribed format as per the circular issued by the Principal.
- In these Budgets, provision is made for the procurement of Latest Equipments, Books, Journals, Research and Innovation activities, Infrastructure, administrative and maintenance expenses.
- These Departmental budgets are then discussed with the Principal in the budget sanction meeting.
- For ensuring efficient mobilisation of funds and optimal utilisation of resources the Principal and the concerned Head of Departments discuss the submitted requirements and decide the priorities as per the needs while allocating financial resources for various purposes. Then this budget is sent to the LMC for approval.
- The budget is reviewed by the local management committee and approved after necessary changes.
- A Purchase Committee (comprising of Principal, Concerned Head of Departments) monitors the purchase as per the sanctioned budget.
- Concerned Head of Departments, Training & Placement Officer, Librarian, Director of Physical Education ensure that suitable equipment with the right specifications are procured at competitive, optimal prices.
- Budget utilisation is periodically reviewed by the Principal and corrective measures are taken, if required.
- Institute has made the necessary provisions in the books of accounts towards efficient mobilisation of funds and optimal utilisation of resources for each academic year.
- Fixed Deposits, Various current and savings accounts, are kept reserved for various expenditures.
- Financial audits are conducted by a chartered accountant every financial year to verify the compliance with established processes.

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:

BEST PRACTICE-1

Title - E-dazzled- National Technical Festival

The E-dazzled Technical Festival is a platform for the budding engineers to explore ones abilities and dazzles/expose it in front of others. This E-dazzled Technical festival bouquet of technical events, to explore the employability potential of the students.

Objectives

- 1.To provide the platform for the students to explore technical abilities.
- 2.To encourage the interaction with students and teachers from other institutes.
- 3.To improve presentation skill.
- 4.To inculcate qualities like leadership, punctuality, self-confidence and team spirit, problem solving skill, building of self-esteem amongst the students.

Context

Co-curricular activities are equally important for upgrading the knowledge of current advances in technology beyond curriculum, for bridging the gap between academia and industry.

Practice:

The “E-dazzled” National Technical Festival organized every year wherein various events like technical Project competition, Model Exhibition, Auto Cad based design competetions , Setu Rachana (bridge models), Robo Race, Robowar, Contraption, Poster and technical Paper presentation and various other technical and entertaining events are included.

Evidence of Success:

It is evident that the success is noticed from the participation of huge number of students in every event mentioned above.

Problems encountered & Resources required

- 1.The participation of outstation students may be increased if accommodation facility is provided within campus.

BEST PRACTICE-2

Industry based Projects for Final year Students

As a part of curriculum, the final year students have to complete project work in final semester.

Objectives-

The objectives behind industry based sponsored projects summarized as:

- To familiarize students with the work culture of industry.
- To explore the possibility of finding solution to real time problems in industry.
- To learn the process design and selection of tools, equipments and softwares .

Context –

Transformation of theoretical knowledge into practical implementation for possible solutions to real time industrial problems.

Practice –

The real time problems are identified within industry under the guidance of teacher guide in institute and technical expert from the same industry. The whole team analyses the problem and tries to provide feasible solution. Industry issues letter of intent and completion for the successful implementation.

Evidence of success –

- Industry – institute interaction is enhanced due to frequent visits of teacher guide and projectees to the industries.
- Industry offered technical sponsorship to most of the project batches.
- The letter of intent is received by the project batches.

Problems encountered & Resources required

Curriculum of the affiliating university does not involve the compulsory internships and projects thereof. Further, there is limited availability of diversified industries in the nearby vicinity.

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:

The Institute follows standard practices for enhancing teaching-learning process. Earlier, the effectiveness of the teaching- learning process was monitored by the Academic monitoring committee comprising of academic coordinators from all departments. The IQAC was established in the year 2016-17 for quality assessment. IQAC makes assessments periodically and stimulates the academic environment for enhancement of quality of teaching-learning process. The decisions are taken by IQAC for adoption of new teaching methodology to improve learning process.

Contribution of IQAC in the improvement of teaching-learning process as follows:

1. Regular monitoring of teaching classes.
2. Suggesting innovative teaching methods to enhance the understanding of students.
3. Facilitating the creation of a learner-centric environment
4. Coordinating quality-related activities, including adoption and dissemination of best practices.
5. Arrangement for feedback response from students, parents and other stakeholders on quality-related institutional processes
6. Documentation of the various programmes/activities leading to quality improvement.

Two examples of institutional reviews and implementation of teaching learning reforms facilitated by the IQAC

1. Remedial measures for slow learners:

- Through various available assessment tools like sessional examinations, Lab viva session, interaction during the lecture, etc. slow learners among the students are identified.
- These students discuss personally with the faculty during library / seminar hour/evening stay back/Saturday.
- These students are arranged to occupy the front benches so that they become more attentive during the classes and their involvement can be effectively monitored.
- Special Assignments, question banks, university question papers of previous examinations are given for solving.
- Students are encouraged to formulate small study groups wherein few fast learners are involved with the slow learners. So that the students can discuss the difficulties among themselves easily.
- Subject teachers and guardian teachers arrange personal counseling sessions with the slow learners.
- Such students are encouraged to use the library frequently.

1. Promoting student centric methods

Experiential learning.

- Industrial visits are organized for the students to gain practical knowledge about the functioning which gives a way to broad thinking.
- Real time, society based and industry sponsored projects are allocated to the final year students.
- Students are rewarded for their best and outstanding performance in project, research and other relevant areas.
- Institute organizes the project competitions so that students can demonstrate the outcome of their experiential learning.
- Students are encouraged to submit their project proposals for various funding agencies under the guidance of a faculty member.
- Every year, 20% experiments have been changed from the total experiments allotted by the University for each Subject's Practical.

Participative learning.

- Learning is made more proactive by making students more participative in the class-room activities through seminars, group discussions, power point presentations and quizzes.
- The student delivers a lecture in classroom on a pre-assigned topic and initiates a discussion amongst the present students providing opportunities for participative learning.
- Students are encouraged to participate in paper presentation in various national and international conferences and journals.
- Students are also motivated to participate in National level Technical festival “E-dazzeled” organized by institute.

Problem solving methodologies

- Students are encouraged to use problem solving method such as brainstorming. Brainstorming is a process for generating creative ideas and solutions through intensive and freewheeling group discussion.
- Tutorials are given to the students for the design and analysis based subjects.
- Assignments are given to the students to enhance writing skills in examinations.

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

Response: 9.2

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

2016-17	2015-16	2014-15	2013-14	2012-13
10	9	15	9	3

File Description	Document
Number of quality initiatives by IQAC per year for promoting quality culture	View Document
Any additional information	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**

A. Any 4 of the above

B. Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

Response: D. Any 1 of the above

File Description	Document
Details of Quality assurance initiatives of the institution	View Document
Annual reports of 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:

Institute strives to develop a quality system for conscious and consistent action to improve the standards in academic as well as administrative performance which are complimentary to each other. Efforts have been taken to promote measures for quality improvement in both these domains. To serve these objectives institute has implemented various quality enhancement initiatives during the last five years as:

Academic Initiatives

Title

Organization of Industrial visits

Commencement of Training and Placement activities.

Organization of Project competition

Implementation of Feedback system from stakeholders

Organization of National Level Technical Festival for students (E-Dazzled).

Organization of International Conference

Representation of staff in Professional bodies through election - nomination

Institutional Membership of professional society ISTE

Implementation of teaching plan for every course

Preparation and distribution of exhaustive question banks and assignments for practice	
Life membership of professional societies for teachers ISTE	
Life membership of professional societies for teachers IETE	
Installation of student forums	
Implementation of Teacher Guardian Scheme	
Organization of seminars-workshops-guest lectures-inter-disciplinary programmes	
Institutional Membership of professional society IETE	
Promotion of use of Modern teaching aids like Screen Projectors, PPTs	
Nomination on Board of Studies SGBAU, Amravati	
Elected on IETE , Amravati regional center	
Elected as Member of Executive Council , ISTE, New Delhi	
Promotion of use of ICT through Webinars and NPTEL videos	
Life membership of professional societies for teachers CSI	
For “slow learners” Extra Classes are conducted	
Conducting seminars from industry resource persons	
Elected on Board of Studies SGBAU, Amravati	
Elected on Senate of SGBAU, Amravati	
Administrative Initiatives	
Title	
Transportation to all parts of the city	
Campus has been beautified with garden and plants	
The library timings are 10.00 AM to 6.00 PM on working days	
Installation of suggestion box in library to improve the services through feedback	
Ease of administration through use of Wi-Fi connectivity in the campus	
Organization of Parent-Teacher meet every semester	

Online-feedback mechanism for evaluation of teachers	
Organization of Alumni meet	
Infrastructural facility for research	
Guidance and orientation by research committee for new researchers	
All classrooms in the college converted into smart classes with LCD projector	

NAAC

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: 11

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

2016-17	2015-16	2014-15	2013-14	2012-13
2	3	4	1	1

File Description

Document

List of gender equity promotion programs organized by the institution

[View Document](#)

Report of the event

[View Document](#)

7.1.2

1. Institution shows gender sensitivity in providing facilities such as:

1. Safety and Security
2. Counselling
3. Common Room

Response:

Institute gives utmost priority to the perseverance and maintenance of dignity, respect and safety of girl students, lady teaching and non teaching staff on the campus. Institute has constituted a committee and mechanism to resolve the issues of harassment and gender violation cases reported. The Institute provides equal opportunity to male and female teachers with respect to appointments, promotions, administration, deputation to courses, higher studies. The Institute provides equal opportunity to girls and boys students with respect to participation in extracurricular activities, sports and placements.

By considering **safety and security** issue & to maintain the healthy academic environment in the institute, various committees are formed as mentioned below.

1. **Women's grievance cell**- The women's grievance cell is formed for the security, welfare and grievance redressal of women as per the norms of AICTE. The committee is active in the institution which looks into the grievances of women and endeavors for a safe and secure women friendly atmosphere in the Institute.

2. **Anti- ragging cell** - There is an anti ragging committee in the institution. The names of the committee

members along with their mobile number are displayed at prominent places in the institution. Any student can lodge a complaint without disclosing his/ her identity in case of any untoward incident.

3. Grievance cell for students- A transparent system of student grievance redressal exists in the institute under the leadership of Principal. A number of suggestion boxes have been placed in various departments, so that the students can drop their suggestions and complaints in the suggestion boxes. These suggestions and complaints are handled at appropriate level for their speedy resolution.

First aid boxes are provided in all departments. Having a first aid kit is the first step to being prepared for a medical emergency .A first aid kit include items such as crepe bandages, adhesive bandages, gauze pads, rolls of adhesive tape, cissors, and antiseptic wipes .Checking of first aid kit is regularly done in order to insure that it is in good working order, has not deteriorated and is within its expiry date.

Institute conducts awareness sessions with the help of police department for the safety and security of students and women staff.

- Cyber security awareness programs related to the safety and security of women employees and students are also conducted.
- Health awareness programs on the issues specifically related to women are organized for staff and students.

Counselling

The teaching and non teaching staffs are made aware of gender equality issues by arranging seminars. Further, students are sensitized by conducting workshops/seminars in the respective departmental forums, to create gender friendly atmosphere .Teacher guardians also make counseling on the gender equality issues.

Common Room:

Institute provides a spacious and comfortable common room for the girls student. This space has been designed to give female students a place to relax, study, have informal discussions in free time available.

7.1.3 Alternate Energy initiatives such as:

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

Response: 63.49

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

Response: 40

7.1.3.2 Total annual power requirement (in KWH)

Response: 63

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: 50

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

Response: 120

7.1.4.2 Annual lighting power requirement (in KWH)

Response: 240

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:

Now a days, generation of any form of waste puts burden on the systems which are responsible for disposal. This problem becomes severe when the waste is non-degradable and hazardous spreading epidemics and tends to environment pollution. The institute has taken initiative to manage both degradable and non-degradable forms of wastes.

Solid Waste Management

Kitchen waste:

1.5 m X 1.5 m X 1.0 m size pit is dug for the compost of kitchen waste. Vegetable waste is dumped in the pit and vermiculture is used to convert it into organic manure.

Garden waste:

Two Numbers of compost pit 3.0 m X 3.0 m X 1.5 m size are dug for the garden waste. Alternate use of pit for the composting is practiced. Vermiculture is used to convert garden waste into organic manure.

Plastic and paper waste :

Utmost care is taken to minimize the usage of plastic in the campus. The plastics waste generated is collected and sent for recycling. Paper waste is also sent for recycling time to time.

E waste:

It is ensured that Electronic Components used for fabricating projects are reused for fabricating other circuits in successive years. Other e-waste is disposed as scrap.

7.1.6 Rain water harvesting structures and utilization in the campus

Response:

Rain Water harvesting

The institute has a rain water harvesting system in the campus. For effective mechanism of rain water harvesting rain water collected from workshop building shade through 5 numbers of 200 lit barrels, connected with necessary screening arrangement for recharging the tube well water level near the workshop.

Drip irrigation, sprinkler irrigation systems to minimize the water consumption as a part of conservation and preservation of natural water are used.

File Description	Document
Any additional information	View Document

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 institute has made all efforts to maintain surroundings green by adding potted plants and growing plants inside and outside of the college campus. The entire campus has landscaping with green grass. From the various event like “Van Mohastav”, College is trying to create environment consciousness among the staff and students and saplings are gifted to our guests instead of bouquets.

Students and staffs are educated to adapt eco-friendly practices. “Anti-Plastic” drive was carried out by NSS unit and also “Swachh Bharat Abhiyan” is being implemented frequently in college campus.

To promote public transport to reduce carbon footprint, institute provides bus facility to the staff and students . Staff and Students and are encouraged for vehicle pooling to reduce carbon emission and fuel consumption. Cars and bikes are allowed to park at specific designated areas near the entrance of the institute so as to keep internal roads pedestrian friendly. The blank side of used paper is utilized for printing. The campus is equipped with push type flush valves and taps for minimal use of water.

Many trees are planted in the campus and are maintained using drip irrigation system to improve water efficiency. UPS batteries are regularly checked and maintained for better efficiency.

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

Response: 2.95

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)

2016-17	2015-16	2014-15	2013-14	2012-13
21.93	3.15	15.19	0.25	19.71

File Description	Document
Any additional information	View 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

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

Response: 16

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

2016-17	2015-16	2014-15	2013-14	2012-13
3	3	2	3	5

File Description	Document
Number of Specific initiatives to address locational advantages and disadvantages	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: 16

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

2016-17	2015-16	2014-15	2013-14	2012-13
3	3	2	3	5

File Description	Document
Details of initiatives taken to engage with local community during the last five years	View Document
Report of the event	View Document

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
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

7.1.15 The institution offers a course on Human Values and professional ethics Response: Yes	
File Description	Document
Provide link to Courses on Human Values and professional ethics on Institutional website	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
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:** 20

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:**

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

Institute organizes :

- Republic day
- Independence day
- Maharashtra din
- Women's day.

Birth/ death anniversaries of great Indian personalities such as:

- Dr. BabasahebAmbedkr.
- Mahatma Gandhi,
- Dr. Sarvapalli Radhakrishanan
- Er. VishwesharayyaMokshagundam.
- Shri Rangrajan (Library Day)
- Dr. Rajendra Gode Birth and Death Anniversary (Founder Chairman of Sanstha and Ex. Minister, Home and Industry, Govt. of Maharashtra)

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

Response:

Institution believes and maintains complete transparency in its financial, academic, administrative and functions.

Financial Functions:

- In the beginning of every academic year, a collective budget for entire institute is prepared which includes all major and minor expenditure proposals from different committees, sections and departments.
- Principal alongwith HoDs analyze the budget and financial and academic priorities are set.
- The final budget proposal is submitted for the consideration of LMC where it is discussed and approved.
- Teachers, laboratory incharge, HoD and Principal are involved in the process of budget preparation and approval.
- Internal and External audits are conducted every year.
- The Audited statements are available for all stakeholders.
- The entire process is transparent and suggestions and recommendations of all stakeholders are considered during the process.

Academic Functions:

- All academic functions are operated as per the guidelines prescribed by the affiliating University.
- Academic calendars, Syllabus, Scheme etc. are displayed and circulated among teachers and students.
- The results of various assessment activities are displayed on notice board.
- Institute has its own grievances redressal mechanism for academic functions.

Administrative and Auxiliary Functions:

- Various administrative and auxiliary functions are established within the Institute for effective execution of operations.
- The stakeholders like Parents, Students and Staff have representation on the various statutory and

designated bodies.

- The constitution of these functions is displayed on notice boards for everyone's information.
- A periodic review of the various activities entrusted with these units is taken by the Institute.
- Grievances, if any, are resolved through the set mechanism.

7.2 Best Practices

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

Response:

BEST PRACTICE-1

Title- Teacher Guardian Scheme

Objectives

1. To establish an open and unrestrained ethical communication with students.
2. To monitor overall progress of students during their graduation.
3. To direct the students to achieve intended goals.
4. To monitor the students' performance, identifying their strengths by offering emotional support and specific suggestions to improve the students in all aspects.
5. To improve presentation, writing skills and oral communication skills.
6. To imbibe good habits, behaviors and human values among the students.
7. To understand the different issues faced by the students affecting academic performance.
8. To inculcate qualities like Commitment, Self-confidence and comradery, self-esteem among the students.

Context

- Most of the students of this institution are from a rural background and are even first generation literates in their families. Many of the students lack literal support and guidance at home.
- It is evident from their scores; student's performance is not satisfactory, need of commiserating his abilities and capabilities.
- Lack of participation in technical festivals, co-curricular and extracurricular activities.
- The students trust the guidance provided by teacher, especially when emotional support is needed.

Practice:

A mentor is assigned a group of 15-20 students.

On the basis of following parameters Mentor guide the Mentee for their improvement of performance/ progress:

[a] Family Background

[i] Family members

[ii] Qualifications and occupations of parents

[iii] Financial Status of the family

[b] Student

[i] Academic difficulties and performance

[ii] Strengths and Weaknesses

[iii] Achievements

[iv] Goal Setting

[v] Hobbies

The interactive meeting of teacher and students takes place weekly. The concerned teacher enquires and counsels the student if absenteeism for two consecutive days, and same is reported to HoD. The HOD persuades the student for continuous absenteeism for more than one week and informs the parents about irregularity.

Every student is encouraged to participate in co-curricular and extracurricular activities within and outside institute. It enhances the personal and professional skills. Difficulties arising in academics are resolved by personal counseling and record is well maintained.

The progress report of every student mentioning the percentage of attendance, result of sessional examination, university result of latest examination and important activities are mailed every semester.

Evidence of Success:

1. The mentors have seen improvement in terms of their attire, academic performance, and language and communication skills.
2. The performance of third and final year students has been improved as compared to lower classes.
3. HoD had interacted with the teacher regarding improvement in teaching skill, in case of evidence noticed about difficulty in understanding of particular topic by few students, which lead to the improvement of result.

Problems encountered and Resources required

- 1.The duration provided within time table is not adequate to interact and counsel every student allotted to the teacher. So, number of students are subdivided into smaller groups to make effective counseling.
- 2.Some students avoid attending the Teacher guardian sessions; in turn teacher guardian interacts with the student and parents telephonically.

Notes:

The guardian teacher extends his services by visiting the residence of the students for effective interaction with the students and their family members.

BEST PRACTICE-2

Title - Faculty Empowerment programme

Objectives-

- 1.To encourage the faculty members for quality improvement.
- 2.To inculcate the culture of research among faculty.
- 3.To motivate the faculty members to publish research articles in indexed journals and reputed conferences.
- 4.To identify the emerging and thrust areas of research and disseminate the information to staff
- 5.To provide necessary infrastructure, human resources and motivation to nurture the research competencies among the faculty members.

Context-

- The repute of any engineering institution rests on teaching – learning process and Research activities.
- It is the responsibility of teachers to inculcate effective learning habits in their students to understand various engineering concepts.
- Enhancement in research competencies of teachers and students is required.
- Facilitation of exposure to interact with renowned scientists and technocrats is required.

Practice-

- 1.The institute facilitates faculty members to pursue research by providing sabbatical leaves, research guidance, patent guidance and financial assistance.
- 2.Institute organized Faculty development Programme.
- 3.Institute organized International Conferences.
- 4.The institution inspires the faculty members to publish the research papers, attend national/ International conferences.
- 5.Eminent researchers are invited to campus for delivering key note address during National and International seminars/ workshops/ conferences.

Evidence of Success

- The number of Ph.D. degree holders in the institution has been increased.

- Teachers have registered for Ph.D. programme.
- The number of research papers published by the teachers and students has increased significantly.
- The number of teachers attending workshops, seminar and conferences is significant.
- Inception of Techknowvista Incubation Center.
- Recognition of Laboratory for Higher research i.e. Ph.D. (Electronics and Telecommunication Engineering) is in process.
- Patents are registered and some are under application.

Year	Number of Ph.D. holder faculty members
2016-17	7
2015-16	6
2014-15	5
2013-14	4
2012-13	3

Year	Number of papers published by faculty member
2016-17	184
2015-16	170
2014-15	167
2013-14	40
2012-13	23

Year	No. of papers received	No. of papers presented	No. of papers presented by faculty members
2015-16	612	402	53
2014-15	600	397	46
2013-14	567	302	54
2012-13	507	276	52

Details of Conferences

S. N.	Year and date	Name of Conference	No. of Papers received	No. of Papers presented
1	2012-13 30-31 March 2013	1st International Conference on emerging trends & research in engineering and Technology	507	276
2	2013-14 29-30 March 2014	2nd International Conference on emerging trends & research in engineering and Technology	567	302

3	2014-15 6-7 April 2015	3rd International Conference on emerging trends & research in engineering and Technology	600	397	
4	2015-16 30-31 March 2016	4th International Conference on emerging trends & research in engineering and Technology	612	402	

Details of Faculty Development Programme

Date: 19/06/2013 to 21/06/2013

S. N.	Eminent Speakers	Topic
1	Dr. B. N. Jajoo Ex. Principal, Govt. College of Engg. Aurangabad.	Teaching in Present Context
2	Dr. Chhaya Mahale Govt. B.Ed. College, Yavatmal	Education Philosophy
3	Dr. S. G. Patil Principal, IBSS College of Engg. Amravati	Literature Survey & preparation of project report
4	Prof. N. M. Gatphane Ex. Principal, B.N.College of Engineering, Pusad	Conduction of practical & How to conduct practical examination?
5	Dr. Avinash Mohril Principal, Mahila Mahavidyalaya, Amravati	Stress Management
6	Dr. M. S. Ali Principal, Prof. Ram Meghe College of Engg. & Management, Badnera	Teaching Methodology

Problems Encountered and Resources Required

- Timely completion of doctoral research has become difficult for the teachers due to academic commitments. Sabbatical leaves are granted to teachers to facilitate the timely completion of their research work.

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:

VISION STATEMENT: *'To Be the flagship of universally acceptable new ideas and innovations'*

Vision statement emphasizes the requisite skills, knowledge and research aptitude, to cater the needs of the society with the right values and ethics which will shape rewarding careers of the students who will serve the society.

In context to distinctive vision for new ideas and innovation in technology, Institute organizes a National Level technical festival branded as **"E-DAZZLED"** every year for the students. This technical festival is open for the students of all Engineering colleges, Polytechnics. Under this event institute encourages students to develop their ideas about research through project competition.

Sr. No.	Name of Technical Event	Date & Year	Events	No. of participated
1	E- Dazzled 2013	January 2013	Paper presentation, Robo race,	621
2	E- Dazzled 2014	January 2014	Robo war, Technical model	700
3	E- Dazzled 2015	January 2015	competition, Poster	1610
4	E- Dazzled 2016	January 2016	presentation, Contraption,	1825
5	E- Dazzled 2017	January 2017	CAD designing etc.	1933

International Conferences :

Institute encourages the faculty to attend and present papers in conferences. Institute organized four international conferences from 2012 to 2016 in accordance with the vision of institute.

S. N.	Year and date	Name of Conference	No. of Papers received	No. of Papers presented	No. of papers presented by faculty
1	2012-13 30-31 March 2013	1st International Conference on emerging trends & research in engineering and Technology	507	276	52
2	2013-14 29-30 March 2014	2nd International Conference on emerging trends & research in engineering and Technology	567	302	54
3	2014-15 6-7 April 2015	3rd International Conference on emerging trends & research in engineering and Technology	600	397	46
4	2015-16 30-31 March 2016	4th International Conference on emerging trends & research in engineering and Technology	612	402	53

year	No. of papers received	No. of papers presented	No. of papers presented by members	by f
2015-16	612	402	53	
2014-15	600	397	46	
2013-14	567	302	54	
2012-13	507	276	52	

Institute nurtures the innovative ideas of teachers and students leading to completion of following projects fulfilling the expectations of society.

- Swiping Machine powered by Solar Energy
- 3600 Air cooler
- Stone collector machine
- Anti theft machine
- 3-D printer
- Power racing car

In association with the vision of institute, an in-house research center for nurturing the innovative ideas is established named “**Technowvista Incubation Center**”. It provides a platform to act as a linkage between Industry and Institute to provide feasible solutions for the technical/ system problems occurring within the industry. A concept of Mega Super Computer working on ternary logic is invented at Technowvista Incubation Center, whose international patent was sought; also students are encouraged to complete their major projects.

The teachers of the institute have filed total 37 patents till date.

5. CONCLUSION

Additional Information :

The institute is planning to get recognition as research centre for Ph. D. programmes.

Concluding Remarks :

It is our privilege to submit the Institute SSR to the NAAC for further processing.

Utmost care has been taken to mention actual figures and precise facts to the extent possible. The IQAC acknowledges the involvement and efforts of all the departments and sections of the institute in providing relevant data and other valuable information in time for completion of this Self Study Report.