Shri Dadasaheb Gawai Charitable Trust, Amravati's

Dr. Sau. Kamaltai Gawai Institute of Engineering
And Technology, Darapur

SELF STUDY REPORT
Submitted to
National Assessment and Accreditation Council
Bangalore

Shri Dadasaheb Gawai Charitable Trust, Amravati's

Dr. Sau. Kamaltai Gawai Institute of Engineering and Technology, Darapur

Darapur -444814, Taq –Daryapur, Dist –Amravati, M.S.

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SELF – STUDY REPORT (SSR)

For NAAC Accreditation of

Shri Dadasaheb Gawai Charitable Trust, Amravati's

DR. SAU. KAMALTAI GAWAI INSTITUTE OF ENGINEERING AND TECHNOLOGY, DARAPUR

Submitted to

National Assessment and Accreditation Council (NAAC)

Submitted By

Shri Dadasaheb Gawai Charitable Trust, Amravati's

Dr. Sau. Kamaltai Gawai Institute of Engineering and Technology, Darapur

Darapur-444814, Taq –Daryapur, Dist- Amravati, M.S.

www.kgiet.ac.in

Abbreviation

AICTE	All India Council for Technical Education
AIEEE	All India Engineering Entrance Examination
AMC	Academic Monitoring Committee
ARAI	Automotive Research Association of India
ARC	Application - Form Receipt Center
BCUD	Board of College and University Development
BOS	Board of Studies
CAP	Centralized Admission Process
CAT	Common Admission Test
CDAC	Center for Development of Advanced Computing
CEO	College Examination Officer
CET	Common Entrance Test
CSI	Computer Society of India
CT	Class Teacher
DEP	Programme/s in Distance Education Mode Dept. Department
DTE	Directorate of Technical Education
E & TC	Electronics & Tele-Communication Engineering
EBC	Economically Backward Class
E-Cell	Entrepreneurship Cell
ERP	Enterprise Resource Planning
FDP	Faculty Development Programme
FE	First year Engineering
GATE	Graduate Aptitude Test in Engineering

GB	Governing Body
GD	Group Discussion
GMAT	Graduate Management Admission Test
GoM	Government of Maharashtra
GRE	Graduate Record Examination
HoD	Head of Department
ICT	Information and Communication Technology
IDP	Institutional Development Proposal
IETE	Institution of Electronics and Telecommunication Engineers
IIIC	Industry-Institute Interaction Cell
IIM	Indian Institute of Management
IIT	Indian Institute of Technology
IQAC	Internal Quality Assurance Cell
ISF	Information Systems Frontiers
JEE	Joint Entrance Examination
LMC	Local Management Committee
MBA	Masters of Business Administration
ME	Masters of Engineering
MHCET	Maharashtra Common Entrance Test
MHRD	Ministry of Human Resource Development
MIS	Management Information System
MoU	Memorandum of Understanding
NAAC	National Assessment and Accreditation Council
NBA	National Board of Accreditation

NPTEL	National Programme on Technology Enhanced Learning
NSS	National Service Scheme
OBC	Other Backward Class
OMS	Other than Maharashtra State
PEOs	Programme Educational Objectives
PG	Post Graduate
PI	Personal Interview
PO	Programme Outcomes
QIP	Quality Improvement Program
R&D	Research and Development
SAE	Society of Automotive Engineers
SC/ST	Scheduled Caste/ Scheduled Tribe
SGBAU	Sant Gadge Baba Amravati University
SDGCT	Shri Dadasaheb Gawai Charitable Trust
STP	Student Training Programme
STTP	Short Term Training Program
SWOT	Strength, Weaknesses, Opportunities and Threats
TEQIP	Technical Education Quality Improvement Programme
TOFEL	Test of English as a Foreign Language
TTT	Train the Trainer
UG	Under Graduate
UGC	University Grant Commission
VAP	Value Addition Program

NAAC STEERING COMMITTEE

S.No.	Name	Designation and affiliation
1.	Dr. S. M. Kherde	Principal
2.	Prof. N. S. Ghotkar	Head – First Year Engineering
3.	Prof. S. T. Warghat	Head – Mechanical Engineering
4.	Prof. V. P. Nikam	Head – Computer Science & Engg.
5.	Prof. Mrs. B. S. Shete	Head – Civil Engineering
6.	Prof. A. N. Kausal	Head – Electrical Engineering
7.	Prof. N. V. Raut	Head – Electronics & Telecommunication Engg.
8.	Prof. T. N. Ghorsad	Head – Information Technology
9.	Prof. K. G. Hirde	Training and Placement Officer
10.	Dr. Ms. P. M. Pete	Librarian
11.	Mr. H. A. Dhumale	Administrative Officer

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A. Preface

The Dr, Sau. Kamaltai Gawai Institute of Engineering and Technology, Darapur (KGIET) is a private unaided institution that was established by Shri Dadasaheb Gawai Charitable Trust, Amravati (SDGCT) in the year 2008. The trust SDGCT came into existence in the year 1991 under the able and dynamic leadership of Hon. R.S. alias Dadasaheb Gawai with an objective of providing quality education in the field of Engineering, Technology, Arts, Commerce, Science, Pharmacy, Education and the basic school education from kinder garter onwards.

The KGIET offers six undergraduate engineering programmes of four year duration namely Mechanical Engineering, Electronics & Telecommunication Engineering, Computer Engineering, Electrical Engineering, Civil Engineering and Information Technology. Three engineering departments are offering post-graduate programs. It has a total under-graduate and post-graduate annual enrollment of 360 and 66 students respectively. All the courses are approved by All India Council for Technical Education (AICTE), recognized by Directorate of Technical Education, Mumbai and affiliated to SGB Amravati University, Amravati.

KGIET aims to provide a 'holistic' education for an integrated personality by striking equilibrium between the modern outlook and traditional values. It shall be our endeavor to promote education ambience conducive to the growth of students so that he metamorphoses from a mere physical form to an intellectual individual, initiating him to prepare for higher goals in life. We make learning an enjoyable experience through an integrated approach with the right blend of academic, co-curricular & sports activities.

The College is in a position to deliver the best theoretical and practical training to the students and offer the best talent to the employers. In order to promote professional activities and peer learning, the College has established Students' Chapters of CSI, IEEE, ISTE and SAE as well as students departmental associations. The students are given training in interview techniques and related soft skills to develop the multi-faceted personality to flourish in their career.

The institute has state of art infrastructural facilities in all departments for engineering research and development. The annual research paper publications of faculty and students reflect the facilities availability. The faculty of the institute continuously strives for imparting technical and soft skill knowledge to the students so as to make them employable at the time of campus recruitment by industry.

PRINCIPAL

COVERING LETTER

Shri Dadasaheb Gawai Charitable Trust, Amravati.

DR. SAU. KAMALTAI GAWAI INSTITUTE OF ENGINEERING AND TECHNOLOGY, DARAPUR

Daryapur Taluka, District Amravati - 444814

■ Ph. 7720032432, 7507473232, ■ Email : principal.kgiet@gmail.com, ■ website : www.kgiet.ac.in

Ref. KGIET/   SDGCT/KGIET/Admin/2017/03/**2631**   Date   31.03.2017

To

The Advisor

National Assessment and Accreditation Council,

P.O. Box No.: 1075, Opp. NLSIU,

Nagabhavi, Bangalore -560072

Karnataka, India

Subject: Submission of Self Study Report (SSR)

Ref. LOI Bearing Track ID MHCOGN27676

Respected Sir

With reference to our LOI bearing Track ID **MHCOGN27676** submitted on 31/03/2017 and acceptance of the same by NAAC on 31/03/2017, please find herewith the Self Study Report (SSR) of this institute. The SSR is uploaded on our institute website www.kgiet.ac.in on 31/03/2017 for your kind perusal. The complete URL is as follows:

http://kgiet.ac.in//Data//NAAC.pdf the institute is ready for assessment and accreditation by the peer team from NAAC. You are kindly requested to consider the SSR of this institute for further processing.

This is for your kind information and consideration please.

Thanking you

With kind regards

Dr. S. M. Kherde

PRINCIPAL

Dr. Sau. K. G. I. E. T.

DARAPUR.

Tq. Daryapur, Dist. Amravati.

B. Executive Summary

Dr. Sau. Kamaltai Gawai Institute of Engineering and Technology (KGIET), Darapur is a private unaided institution that was established by Shri Dadasaheb Gawai Charitable Trust, Amravati (SDGCT) in the year 2008. The trust is having a very long standing and was established in year the 1972 and SDGCT came into existence in the year 1991 under able and dynamic leadership of Hon. R.S. alias Dadasaheb Gawai with an objective of providing quality education in the field of Engineering, Technology, Arts, Commerce, Science, Pharmacy, Education and the basic school education from kinder garter onwards. There are more than 39 institutes under the aegis of SDGCT offering school education, Diploma, Graduation, Post-Graduation and Ph.D. programs in various fields.

All the institutes under SDGCT are recognized by the concerned statutory authorities and they meticulously fulfill the norms and standards laid down by these statutory authorities. All the members of the management committee of SDGCT are eminent persons from academics and industry under whose guidance the institutes are progressing academically over the period of time. Dr. Sau. Kamaltai Gawai Institute of Engineering and Technology (KGIET) is established in the year 2008 and is considered as the flagship institute of SDGCT both in academic and industry arena.

Criterion I: Curricular Aspects

SDGCT's Dr. Sau. Kamaltai Gawai Institute of Engineering and Technology (KGIET), Darapur is a premier self-financing institute affiliated to Sant Gadge Baba Amravati University (SGBAU). The institute follows the curriculum designed by respective Board of Studies in consultation with various stakeholders. The Course Education Objectives (CEOs) and Course Outcomes (COs) are prepared by faculty for effective delivery of respective course. The students are given a choice to choose free elective subjects in Third year and core discipline related elective subjects in final year. The academic calendar is followed by every faculty, which is prepared on the basis of calendar circulated by Sant Gadge Baba Amravati University. The academic progress of student is monitored by keeping all sorts of academic, co-curricular and extra-curricular activities records. All students are encouraged to take up academic projects in collaboration with industries. The student feedback is taken at the end of every semester to assess the quality of teaching-learning and corrective measures are taken by the faculty based on the feedback in the following semester. The institute also has a formal mechanism to obtain feedback from other

stakeholders like final year students (Exit survey), alumni, parents and industry.

Few department of the institute has representation either in Board of Studies (BoS), Academic Council of SGBAU. Many faculty members are holding the portfolio of Subject Chairman for UG and PG courses. The institute encourages the faculty to undergo internship at industry during vacation and organizes different programs like Faculty Development Program (FDP) and Teachers Advancement Program (TAP) for effectively transacting the curriculum and improving teaching practices. The institute promotes effective industry-institute interaction through Industry Institute Interaction Cell (IIIC).

The institute has well equipped central library and digital library for online access to international/national journals as well as several online academic resources. The departments of the institute offers several courses to serve the purpose of 'value addition' for students in their academics apart from the programs affiliated to SGBAU.

All the departments of the institute make an effort to enrich the curriculum in the form of content beyond syllabus and enhance the experiences of the students by coping with the rapidly changing technological innovations in industry. In addition, the departments conduct industrial visits, site visits, sponsored projects, technical events and student training Programs.

Criterion II: Teaching-Learning and Evaluation

The admission of students to the institute is in accordance with SGBAU, Maharashtra State Government and AICTE rules. The students are admitted through Centralized Admission Program (CAP) of Directorate of Technical Education (DTE), Mumbai. The centralized admission process ensures the diversity of student admissions to the institute.

The institute has well qualified faculty with good retention ratio. It always tries to achieve excellence in teaching – learning by introducing new methods to enhance the employability and academic results. The institute has made various facilities and comfort zones available to serve the differently-abled students. It sensitizes the staff and students on issues such as gender, inclusion, environment by means of activities like Anti-ragging committee, Anti ragging Squad, Women Grievance Cell for Sexual Harassment, Grievances Redressal Cell, Induction Programs for newly admitted students, Guardian Teacher (Mentor) Scheme, Organization of social awareness contests and activities, National Service Scheme (NSS) and others.

All the departments of the institute prepare the their own planner based on academic calendar of the institute for the entire semester to improve the quality of teaching-learning. The faculty members prepare their teaching plan based on

feedback from stakeholders. The departments of the institute encourage the use of ICT based teaching. The institute motivates the scientific temper, critical thinking and creativity of students by organizing National and International conferences, workshops, seminars, National level technical event 'Prayukti', Robotics competition, BAJA SAE - intercollegiate level car design competition.

The institute has its own Academic Monitoring Committee (AMC) to monitor the quality of teaching–learning process. However the institute has changed this committee as per the guidelines of NAAC into IQAC from this academic year. It has a well-established policies and mechanisms to recharge the teachers by giving study leave for course work, thesis writing and financial assistance for attending FDP, STTP and conferences. The institute ensures the effective implementation of evaluation reforms of university in the form of online examinations, in semester and end semester examination and project based seminars.

The implementation of teaching plan and students' attendance is regularly monitored by teacher guardian and Head of Department and regular efforts are made to inform the students and parents. All the departments ensure the proper coverage of the syllabus at the end of the semester. Regular unit tests, mock online examinations, prelim tests, mock oral/practical examinations are conducted for enhancing the student results at University examinations.

Criterion III: Research, Consultancy & Extension
The institute has recognized post graduate teachers affiliated to SGBAU in the various departments. The laboratories and computer centers are equipped with adequate hardware and software infrastructure and electronic facilities.

The institute allocates a sum outlay of 2% of the total budget for Research and Development related activities. It has a Research and development (R & D) committee which plays a crucial role of promoting the research and development within the Institute. The Faculty strives for research paper publications in peer reviewed journals. A good number of research publications have been made by the faculty and students in reputed national and international journals during the last five years. The institute also supports research projects by providing the financial assistance to the students as per the requirement of project wherever it is necessary.

The institute has signed MoU's with industries and other agencies for promoting training, research and extension activities in technical education. It has established state of art laboratories in the frontier areas like CAD/CAM, Mechatronics and High performance computing lab.

The institute has well established procedures for consultancy activities. Monetary and non- monetary benefits are extended to the faculty for utilizing their efforts towards consultancy assignments.

All the departments of the institute have always remained enthusiastic to arrange training programs, technical workshops, seminars, expert lectures and others to help the faculty and students to upgrade their knowledge through knowledge exchange. Social activities like blood donation, computer awareness camp in rural area are organized by the students to enhance holistic development. The institute has a mechanism for creating the awareness about social activities among the students and to ensure the participation of students in these programs. The institute encourages and financially supports the students to participate in various national and international events like SAE BAJA, SUPRA, ROBOCON, Techfest etc. It also organizes various activities through Students' Clubs, NSS and other forms of community development services.

Criterion IV: Infrastructure and Learning Resources
The basic infrastructure required for teaching–learning is available in all departments and it is in line with the norms of AICTE. It includes class rooms, tutorial rooms, laboratories, seminar hall, auditorium, departmental library and others. The infrastructural facilitates are being added from time to time to keep in pace with the requirements of increased intake. All the class rooms are equipped with LCD projector, computer system and CCTV facility at important locations of the building. In addition, several other facilities are available for extra-curricular activities like Playground, Indoor Games, Gymnasium, Cultural Activities, Newspapers, General Stores and Students cooperative store.

The institute has sufficient hostel facility available in campus at Darapur as well as at Amravati city for both boys and girls. All the rooms are provided with a cot, mattress, pillow, table, chair and cupboard. The institute has a Doctor on call facility for counseling and treatment. In addition, the SDGCT has got a charitable medical facility at Amravati which provides all the facilities of hospital free of cost to all the students, faculty as well as the outside patients.

All the departments of the institute have adequate computing facility both in terms of hardware and software. All the computer systems available are with latest configuration with licensed software installed. The campus is connected by LAN which provides internet facility of bandwidth 50 Mbps. In addition, Wi-Fi facility with band width 20 Mbps is made available 24 × 7.

Criterion V: Student Support and Progression
The institute facilitates all the scholarships offered by both the State and Central

Government. All the eligible students admitted in reserved category are receiving financial assistance from State Government. The institute arranges extra lectures for SC/ST students. Special preference is given for differently abled students for on- campus hostel accommodation.

The institute has active Entrepreneurship Development Cell (EDC) which organizes expert lectures conducted by industrialists and experienced professionals to develop entrepreneurial skills among the students. Some of the students of this institute have already made progress in starting their own startup companies after their graduation.

The institute motivates the students to go for higher studies and research work. Many students from the institute are appearing for GATE and other related examination for PG programs in India and few in abroad. The institute has a centralized Training and Placement cell. It has a structured mechanism to make the students employable and also help them to choose the career of their interest. The cell is headed by TPO with an institute level training and placement officer who co-ordinates with various department level faculty coordinators for its activities. Good number of companies visit the campus every year for campus placement during the last five years with a placement rate of around 25% of all the eligible students. The average passing percentage and completion rate of students during the last four years in the final semester is in between 85-90%. The passing percentage of the institute as compared to other institutes in the surrounding colleges in the region is competitive.

The institute has a Student Grievance Redressel Cell comprising of Principal, Faculty members and student representatives. The students' personal and academic grievances are taken care of by the guardian teacher, Class Teacher and the higher authorities, if needed. It also has anti-ragging committee and squad comprising of Principal, senior faculty members and student representatives..

The institute is known for its famous annual social cultural festival "Innovision'. All the events are organized by the students under the supervision of faculty. There is also a technical meet of students "Prayukti' organized every alternate year, which showcase the technical skills of students. In addition, students are encouraged to participate in various national and international level events in cultural, sports and technical activities. Several students from the institute received laurels by winning the events in all these activities.

Criterion VI: Governance, Leadership and Management
SDGCT aims at holistic development of students and teachers by implementing

education and other initiatives to strategically meet development goals of the institute. The SCOE has constituted Governing Body and Local Managing Committee as per rules and guidelines of Government of Maharashtra and SGBAU. The head of the institution administers all the activities and plays a leading role in governance and management of the institution.

The institute provides various platforms for faculty to develop leadership skills at department, institute by giving them various portfolios. The policies for institution growth in terms of academic, administrative and financial matters are decided by Governing Body. The management has given freedom to the Principal, Head of Department and faculty for the overall progress and development of the institute in terms of academic and administrative matters. The functioning of the institute is at four different levels such as student, faculty, Head of the Department and Principal.

Several committees formed in the institute play important role in various institutional functions. The committees are always headed by faculty and in some cases with student as members. The management of the institute is committed in assuring quality service to all its stake holders, students, alumni, employees, employers and the community.

The institute provides many welfare schemes like Group Insurance Scheme, PF, Accidental Insurance, Maternity leave, extended maternity leave, uniform for security guards, provision for qualification improvement and staff quarters for both teaching and non-teaching staff.

The institute has implemented the concept and functioning of IQAC through the Academic Monitoring Committee of SDGCT. The committee visits each department and takes feedback on the teaching and learning process at various departments in every semester. The suggestions for improvement if any are immediately given to the faculty and Head of Department.

The management of the institute is always proactive in introducing new methods for enhancing the governance and leadership among faculty, staff and students. The institute organizes need based motivational training programs for faculty and staff. The management takes Principal and Heads of Department (HoD) into confidence in finalizing various programs to be organized at SDGCT level. The HoDs are given academic and administrative freedom in smooth functioning and development of the department. The management encourages the faculty to carry out the research and consultancy activities. It has provided well-defined guidelines for the distribution of income generated through various research and consultancy programs. The management motivates the faculty and staff to attend various workshops/ seminars/conferences by way of partial

reimbursement of the expenses. The institute aims to achieve the center of excellence in academic research in select areas of engineering by motivating all the faculty to pursue Ph.D.

Criterion VII: Innovation and Best Practices

The institute display posters at prominent places on issues like climate change and environment. It adopts environment friendly practices and takes necessary actions such as – energy conservation, rain water harvesting, waste recycling, etc. Green audit initiative is taken by the faculty, staff and the students, through various projects periodically, by supervising the existing status of few of the aspects under audit concept, like: maintenance of the existing trees and locating places for planting new trees.

The charm of the campus is because of lush green surroundings, utility of natural topography. The institute tries to save each unit of energy on the campus by making optimum use of available energy. The use of solar energy for day time lighting, battery backups are few of the aspects promoted at KGIET campus.

Some of the important best practices followed by the institute are – regular industrial visits by the students, industry supported student project works, encouraging student internship at industry during vacation, involvement of experts from industry in guest lectures, monitoring students through guardian – teacher scheme, special classes for academically weaker and lateral entry students, introduction of NSS, use of ICT and NPTEL lecture notes in class rooms, etc.

The institute uses its own developed online utilities and applications for administrative works like online feedback, appraisal report, training and placement. An important initiative started by the institute during last four years is 'Student Training Program' which is to train and make the students employable at the time of final year graduation.

SWOC ANALYSIS OF THE INSTITUTE

Strengths

- State of art laboratories and infrastructure
- Good faculty and staff retention ratio
- Student centric learning and environment
- Conducive work environment for faculty and staff
- Effective training and placement cell
- Fully equipped and spacious central library with rich collection of books and journals
- Digital library with access to national and international e-journals
- Excellent internet bandwidth and campus Wi-Fi facility
- Support to faculty for pursuing higher studies leading to Ph.D.
- Well planned and organized Student Training Program and Value Addition Programs
- Train The Trainer Program for newly inducted faculty
- MoUs with industry for student centric programs
- Effective Entrepreneurship Development Cell
- Well guarded and safe environment for students on campus
- Emphasis on holistic development of students

Weakness

- Less number of faculty with Ph.D. qualification in departments
- Limited number of consultancy and extension activities
- Moderate Industry Institute interaction
- Lack of Technology Business Incubation Centers to transfer the technology to industry
- Less number of book publications and patents
- Insufficient foreign university collaborations for faculty and student exchange.

Opportunities

- Development of web based learning mechanisms
- Networking with institutes of national and international repute
- Alumni networking to enhance the academic and placement activities
- 'Center of Excellence' in select areas in engineering and technology
- Collaborative research with corporate world

Challenges

- Enhancing employability skills of students in rapidly changing technology in an affiliated institute
- Adaptability to globally changing industrial scenario
- Scarcity of faculty with Ph.D. qualification in select areas of engineering

C. PROFILE OF THE INSTITUTION

Profile of the Affiliated / Constituent College

1. Name and Address of the College:

Name :	Shri Dadasaheb Gawai Charitable Trust, Amravati's Dr. Sau. Kamaltai Gawai Institute of Engineering and Technology
Address :	Darapur - 444814, Taq –Daryapur, Dist –Amravati, M.S.
Place : Darapur	Pin : 444814	State : Maharashtra
Website :	www.kgiet.ac.in

2. For Communication:

Designation	Name	Telephone with STD code	Mobile	Fax	Email
Principal	Dr. S. M. Kherde	07224-205100 09423446018 (R)	07507473232 0772003243	0721-2662183	principal.kgiet@gmail.com
Steering Committee Coordinator	Prof. D. B. Pawar	07224-205100 09422823090 (M)	07720032435	0721-2662183	Dushyantpawar77@gmail.com

3. Status of the Institution: Affiliated College Constituent College   ✓
   Any other (specify)

4. Type of Institution: ☐

   a. By Gender   ☐

   i) For Men   ☐

   ii) For Women   ☐

iii) Co-education ☑

b. By Shift
   i.   Regular ☑

   ii.   Day ☐

   iii.   Evening ☐

5. It is a recognized minority institution?

Yes ☐
No ☑

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

6. Sources of funding: Government ☐

Grant-in-aid Self-financing Any other ☐

7. a. Date of establishment of the college: **24ᵗʰ March 2008** ☑

   b. University to which the college is affiliated /or which governs the college (If it is a constituent college)
     Sant Gadge Baba Amravati University, Amravati.

   c. Details of UGC recognition:

Under Section	Date, Month & Year (dd-mm-yyyy)	Remarks (If any)
2 (f)	Not applicable	--
12 (B)	Not applicable	

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

c. Details of recognition/approval by statutory/regulatory bodies other than UGC (AICTE)

Under Section/ clause	Recognition/Approval details Institution/Department Programme	Day, Month and Year	Validity	Remarks
AICTE, NEW DELHI	B. E. Computer Science & Engg. F.NO.06/07/MS/Engg./2008/01	24.03.2008	1 Year	Approval is extended Every year by submitting the approval process application along with the necessary fees to AICTE, New Delhi
	B. E. Mechanical Engineering F.NO.06/07/MS/Engg./2008/01	24.03.2008	1 Year	
	B. E. Electronics & Telecommunication F.NO.06/07/MS/Engg./2008/01	24.03.2008	1 Year	
	B. E. . Information Technology F.NO.06/07/MS/Engg./2008/01	24.03.2008	1 Year	
	B. E. Electrical Engg F.NO. Mah/1-9713541/2010	23.08.2010	1 Year	
	B. E. Mechanical Engineering F.NO. Mah/1-9713541/2010	23.08.2010	1 Year	
	B. E. Electronics & Telecommunication F.NO. Mah/1-9713541/2010	23.08.2010	1 Year	
	M.E. Mechanical –CAD/CAM F. No. Mah/1-731408102/2012	10.05.2012	1 Year	
	M.E. Computer Science & Engg. F. No. Mah/1-2018883208/2014	04.06.2014	1 Year	
	M.E. Electrical Power Systems Engg. F. No. Mah/1-2018883208/2014	04.06.2014	1 Year	

(*The recognition/approval letters of all the programs from statutory bodies AICTE and SGBAU are given in **Annexure**)*

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

Yes ✔   No ☐

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

Yes ☐   No ✔

9. Is the college recognized?

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

Yes ☐   No ☑

b. for its performance by any other governmental agency?

Yes ☐   No ☑

If yes, Name of the agency N BA, A ICTE / T EQIP - I I and

10. Location of the campus and area in sq.m: **Rural Area**

Location *	Urban
Campus area in sq. m.	40468.60 Sq. M. (10 Acres)
Built up area in sq. m.	18504 Sq. M.

(* Urban, Semi-urban, <u>Rural</u>, Tribal, Hilly Area, Any others   specify)

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

S. No.	Facilities Available	Yes / No
1.	Auditorium/seminar complex with infrastructural facilities	Yes
2.	Sports facilities	Yes
3.	Play ground	Yes
4.	Gymnasium	Yes
5.	Hostel - Boys • Number of hostels - 02 • Number of inmates – 100 • Mess, Cafeteria, Campus Clinic, Ambulance, ATM, Laundry, Wi- Fi etc. Hostel – Girls • Number of hostels – 02 • Number of inmates – 100 • Separate Mess for Girls. Cafeteria, Campus Clinic, Ambulance, ATM, Laundry, Wi-Fi etc.	Yes

6.	Residential facilities for teaching and non-teaching staff (give numbers available — cadre wise) - Residential facility available for Teaching staff – 03 - Residential facility availed by teaching staff – 01 - Residential facility available for Non-Teaching staff – 02 - Residential facility availed by Non-teaching staff – 02	Yes
7.	Cafeteria Total available – 01	Yes
8.	Health center – Campus Clinic available First aid, Impatient, Outpatient, Emergency care facility, Ambulance etc. – Available	Yes
9.	Health center staff – The Society run a Charitable Hospital with all facilities free of cost to both students & staff Qualified doctor - Full time Qualified Nurse - Full time	Yes
10.	Facilities like banking, post office, book shops	Yes
11.	Transport facilities to cater to the needs of students and staff	Yes
12.	Generator or other facility for management/regulation of electricity and voltage	Yes
13.	Solid waste management facility	Yes
14.	Rain Water harvesting	Yes

12. Details of programmes offered by the college (Give data for current academic year)

S.N	Programme Level	Name of the Programme	Duration	Entry Qualification	Medium of instruction	Sanctioned/ approved Student strength	No. of students admitted
1	Under Graduate Programs	Computer Science Engg.	4 Years	XII Std	English	60	79
2		Mechanical Engg.	4 Years	XII Std	English	120	368
3		Electronics & Telecommunicati	4 Years	XII Std	English	600	85

		on					
4		Electrical Engg.	4 Years	XII Std	English	60	185
5		Civil Engg.	4 Years	XII Std	English	60	135
6		Information Tech.	4 Years	XII Std	English	600	05
7	Post Graduate Program	M.E. (Mechanical – CAD/CAM)	2 Years	B. E.	English	18	06
8		M.E. (Electrical Power System)	2 Years	B. E.	English	24	08
9		M.E. (Computer Science & Engg.)	2 Years	B. E.	English	24	08

13. Does the college offer self-financed Programmes?

Yes ✓   No ☐

If yes, how many?   UG – 06, PG – 03

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

Yes	✓	No		Num	04

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

Faculty	Departments	UG	PG	Research
Engineering & Management	B. E. Computer Science &	Yes	Yes	--
	B. E. Mechanical Engg.	Yes	Yes	--
	B. E. Electronics & Telecom.	Yes	--	--
	B. E. Electrical Engg.	Yes	Yes	--
	B. E. Civil Engg.	Yes	-	--
	B. E. Information Tech.	Yes	--	--

16. Number of Programmes offered under (Programme means a degree course like B.A, B.Sc, MA, and M.Com)

   a. Annual system ☐

   d. Semester system 09

   e. trimester system ☐

17. Number of Programmes with

   a. Choice Based Credit System 06

   b. Inter/Multidisciplinary Approach 00

   c. Any other (specify and provide details) -

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

   Yes ☐   No ✓

19. Does the college offer UG or PG programme in Physical Education? No

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

Positions	Teaching faculty						Non-teaching staff		Technical staff	
	Professor		Associate Professor		Assistant Professor					
	*M	*	*	*F	*	*F	*M	*F	*	*F
Sanctioned by the UGC / University / State Government Recruited	01	00	00	00	23	06	00	00	00	00

Positions	Teaching faculty						Non-teaching staff		Technical staff	
	Professor		Associate Professor		Assistant Professor					
	*	*	*	*	*	*F	*	*F	*	*F
Sanctioned by the Management/ society or other authorized bodies Recruited	00	00	00	00	62	29	18	01	14	01

*M-Male *F-Female

21. Qualifications of the teaching staff:

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent teachers							
D.Sc./D.Litt.							
Ph.D.	01	-	-	-	2	3	5
M.Phil.	--	-	-	-	4	2	6
PG	-	-	-	-	67	30	97
Temporary teachers							Temporary
Ph.D.	-	-	-	-	-	-	-
M.Phil.	-	-	-	-	-	-	-
PG	-	-	-	-	-	-	-
Part-time teachers							Part-time
Ph.D.	-	-	-	-	-	-	-
M.Phil.	-	-	-	-	-	-	-
PG	-	-	-	-	-	-	-

22. Number of Visiting Faculty /Guest Faculty engaged with the College. 02

23. Furnish the number of the students admitted to the college during the last two academic first years.

Categories	2013-14		2014-15		2015-16		2016-17	
	Male	Female	Male	Female	Male	Female	Male	Female
SC	101	38	132	66	147	60	162	63
ST	2	1	9	6	8	3	8	3
OBC	264	91	421	98	410	100	383	82
General	185	24	80	13	96	18	87	15
Others	52	13	62	14	60	15	59	25

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

Type of students	UG	PG	M. Phil.	Ph.D	Total
Students from the same state where the college is located	857	22	--	--	879
Students from other states of India	-	-	-	-	-
NRI students	--	--	--	--	-
Foreign students	--	--	--	--	-
Total	857	22	--	--	879

25. Dropout rate in UG and PG (average of the last two batches) UG   2.1%

PG   1.6%

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

(a) Including the salary component   Rs.63800/-

(b) Excluding the salary component   Rs.14164/-

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

Yes ☐   No ✓

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

SN	Name of the Programme	Teacher – Student
1.	Mechanical Engineering	1:12.5
2.	Electrical Engineering	1:9.73
3.	Civil Engineering	1:13.5
4.	Computer Engineering	1:4.15
5.	Electronics & Telecommunication	1:4.25
6.	Information Technology	1:1

29. Is the college applying for?

Accreditation: Cycle1 ☑   Cycle 2 ☐   Cycle 3 ☐   Cycle 4 ☐

Re-Assessment: ☐

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

30. Date of accreditation* (applicable for Cycle 2, Cycle 3, Cycle 4 and re-assessment only)
    Not Applicable

31. Number of working days during the last academic year.

    ☐ 238

32. Number of teaching days during the last academic year

    (Teaching days means days on which lectures were engaged excluding the examination days)

    ☐ 180

33. Date of establishment of Internal Quality Assurance Cell (IQAC) IQAC
    01.07.2016

34. Details regarding submission of Annual Quality Assurance Reports (AQAR) to NAAC:
    Not Applicable

35. Any other relevant data (not covered above) the college would like to include. (Do not include explanatory/descriptive information)
    NO

CRITERION I : CURRICULAR ASPECTS

1.1 Curriculum Planning and Implementation

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

Vision of the Institution

Quality education is our mission not a profession..........................Hon. R. S. Gawai

To become a technical institution of repute by incorporating best possible innovative instructional techniques in engineering & technology and imparting social & moral values amongst the students to be a socially responsible citizen.

Mission of the Institution

To transform the rural learner into technocrats to meet the challenges in an ever-changing global society by imparting outcome based technical education, providing a strong theoretical foundation, developing leadership qualities by inculcating professional conduct, ethics and the attitude of life long learning.

Objectives of the institution

- To ensure all round development of the student by developing their academic, co-curricular and extra-curricular skills.
- To build a student personality equipped with exquisite technical and nontechnical skills, which are globally at par.
- To give the instruction and training to the students in the direction to create awareness and understand the technological and socio-economic needs of the society.
- To promote interaction between industry and institute to enrich teaching learning process and enhance career opportunities for the students.
- To explore opportunities of research taking into account local, regional, national and global requirements.
- To motivate the faculty to achieve excellence in their areas of interest and prepare them to face challenges of ensuring future of the student community.

Communication to Stakeholders

The vision, mission and objectives of the institution are communicated to the students, teacher, staff and other stakeholders by various ways. The vision and

mission statements are displayed on institute website, at various locations of college such as Principal's office, Head of Department Cabins, Faculty Rooms, Library, Training and Placement Cell, Seminar Halls and Laboratories. These are communicated to the students through Notice Boards of all departments, College Brochure and awareness programs. For the newly admitted students of UG and PG, it is communicated through the Induction Program.

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

The institution scrupulously develops and deploys the action plan for effective implementation of the curriculum.

Development of action plan for effective implementation of curriculum

- The institution follows the curriculum prescribed by affiliating university, Sant Gadge Baba Amravati Univeristy (SGBAU). The semester planning is done in advance, at the end of previous term through the departmental meeting by floating the curriculum to the faculty. The choice of 3 to 5 subjects is taken from every faculty. The subject allocation is done on the basis of the priority of the faculty from the choice given, area of specialization, qualification, number of times the subject taught and experience. The students are also informed in advance about curriculum and academic calendar.

- The students are given a choice to choose the elective subjects listed in the university curriculum and accordingly departments allocate the faculty for teaching the electives. Regular feedback is taken by the Head of Department for all the subjects at regular intervals in online mode and suggestions for corrections, if any will be informed to the faculty.

- The academic calendar is prepared by Academic Monitoring Committee (AMC) on the basis of academic calendar circulated by SGBAU. Class tests, mock online tests, STP activities and remedial lectures are also included in academic calendar. The individual faculty and class time tables are prepared by the department time table coordinator with the approval of HOD and Principal.

- Faculty prepares the teaching plan for the theory and practical subjects allocated to them by considering department academic calendar. Every faculty prepares a detailed course file which includes teaching plan, class notes, question banks, previous question papers of SGBAU, study material beyond curriculum, PPTs.

Deployment of action plan for effective implementation of curriculum

- The academic calendar of the institute is strictly followed by every faculty. The Academic Monitoring Committee (AMC) which work and act as IQAC committee of the institute monitors regularity in the conduction of lectures, progressive syllabus coverage, students' academic progress and their grievances. The feedback of the committee is conveyed to HOD for corrective measures.

- In the process of monitoring the attendance of the student, faculty maintains a daily attendance sheet of theory/practical in hard copy. Weekly attendance is collected by the Guardian Teachers (Mentor) of the respective batch. Regular absent students are identified by the mentors and the same is informed to the parents through telephonic conversation, email, SMS alert or if required by post.

- The academic progress of student is also monitored by Class In-charge by keeping a record of class tests, mock online tests, Semester University examinations, performance in practical and conveyed to all the students as well as their parents. The corrective measures such as remedial lectures, giving assignments of theory and practical, personal counseling are taken for academically weak students.

- Student feedback of every faculty is taken in the mid of every semester. The department head assesses the feedback and conveys it to respective faculty for corrective measures if any. The academic monitoring committee of the department counsels the faculty concerned and reports the action taken to Principal.

- The planning for student project and seminar work is done at the beginning of every semester where the students as per their specific areas of core subject interest are allocated to guides who are specialized in those areas. In addition to in-house projects, students are also encouraged to take up projects in collaboration with industries. Furthermore, if there are ongoing research projects sanctioned by various organizations, the students are encouraged to pursue research as part of their projects.

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

- The institute is affiliated to SGBAU and follows the prescribed curriculum. The faculty attends the syllabi revision workshops conducted by university from time to time. The institute not only encourages but also supports financially to the faculty to attend the Faculty Development Programme (FDP), Short Term Training Programme (STTP), Quality Improvement Programme (QIP), National

and International Conferences during summer and winter vacations to enrich their knowledge and help them to acquire new technical skills.

- The institute encourages the faculty to undergo internship at industry during vacation and organizes different programs like Train the Trainer (STTP) and Faculty Induction Program (FIP) for the newly inducted faculty with the involvement of senior faculty from the University and industry experts.

- The university evaluates the students through examinations for which the duties are assigned to experienced faculty of the institute as University Examination Officer In-charge, Paper setter, Moderator and Examiner.

- The central library of college is enriched by 15226 total books of all disciplines of Engineering, and Sciences. Along with 995 reference books, the library also has 71 periodicals and journals out of which 63 are national and 8 international. Library has 476 Bound Volumes, mainly of J-Gate transactions and ASME journals. The library also possesses 859 CDs as offline databases.

- All the classrooms are well equipped with modern teaching aids supported by Wi-Fi or broadband internet facilities in order to ensure simple and effective teaching- learning process through audio-visuals.

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

- The institute organizes teachers training programs for various subject during winter and summer vacation in which the faculty receives training through lectures and guidelines from experienced faculty.

- The teaching plan for every subject is uploaded by respective faculty at the beginning of every semester on college website facilitated by the institute.

- The central library is open between college hours throughout the year and Wi-Fi facility is made available in the campus at all important locations of the institute.

- The faculty takes care of academically weak students by conducting remedial lecturers and sparing extra time for such students after daily academic schedule. The seminars, motivational lectures, industrial visits and training programmes are organized for overall development of students.

- One batch of students is allocated to every faculty to look after as 'Guardian Teacher' who monitors the theory-practical attendance and academic performance of every student in that batch. The students are counseled to improve attendance and academic performance as the case may be. The activity is also helpful in bridging the communication between parent and the institution.

1.1.5 How does the institution network and interact with beneficiaries such as industry, research bodies and the university in effective operationalization of the curriculum?

- The institute has developed a network involving industries, alumni, research organization and the university. It promotes effective industry-institute interaction through Industry Institute Interaction Cell (IIIC). The experts from industry are invited as guest faculty to discuss the state of art practices followed by industry. This motivates the students to develop their thought process and become acquainted with industrial culture. The departments of the institute promote a number of student projects in collaboration with industry. This provides the students a platform to understand industry requirements and effective time management to complete the specific tasks.

- The institute has signed a good number of Memorandum of Understanding (MoUs) with various industries. This provides an ample opportunity to faculty and students to deal with industry specific challenges. These MoUs are backbone of research oriented projects and problem based learning.

- The faculty from the institute is actively involved in curriculum development for several subjects including open electives in collaboration with industry and research bodies like Board of Studies (BOS) of SGBAU.

- The institute boasts of a strong alumni network channelized through alumni association. The communication between present students and the alumni is made possible through annual meets at institute level. A feedback from alumni is taken during the annual meet. The contents of the feedback form are relevant to know alumni's view point on technical skills upgradation, problem solving ability, personality development and extracurricular activities of students of the institution.

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

- The institute has developed a strong rapport with University and provides every possible support in framing the curriculum and its implementation. A number of syllabi revision workshops of University are conducted by the institution thus providing guidelines for framing curriculum through deliberations by faculty and industry representatives.

- The institute has representatives in the form of faculty members from different

departments working as a Member-Board of Studies (BoS). They act as a link between the institution and University for any type of communication related to academics and administration. In addition, many faculty members are responsible for paper setting, preparation of offline examination question paper, assessment of papers etc.

• The feedback collected from students, alumni, industry experts and faculty about the existing curriculum is helpful in taking corrective measures in future curriculum development.

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

• Yes, the curriculum of following programs of SGBAU is initiated and developed by the faculty of this institution.

• B. E. (Mechanical Engineering)

• The general procedure followed during the development of curriculum is as follows:

• The structure of syllabi and initial draft is prepared by the committee involving expert faculty from the department keeping program objectives and outcomes in mind. At this stage, the courses offered by different premier institutions are referred. The suggestions from industry professionals are also invited during this initial phase of draft preparation.

• This draft is presented before BoS and the industry invitees where deliberations from all sections are exercised. The final draft is prepared after going through the revisions suggested and is circulated to all the stakeholders involved in the syllabi framing. After the approval from BoS, the curriculum is put up before the faculty and academic council of University for final approval and circulation by the University.

• In addition to the above, the faculty from the institute is involved in development of course modules for Student Training Program (STP) and Personality Development Program (PDP). These course modules are designed to improve the employability skills of students and offered at all levels of undergraduate program.

1.1.8 How does institution analyze/ensure that the stated objectives of curriculum

are achieved in the course of implementation?

- The Programme Education Objectives (PEOs) and Programme Outcomes (POs) are initially defined for each program run by the institution. For every course, Course Education Objectives (CEOs) and Course Outcomes (COs) are prepared for effective delivery of the respective course. The content beyond syllabus is planned in advance and is covered through different activities like guest lectures, industrial visits and student training programs. The online feedback on course taught in a semester and for a particular program is taken from students and the analysis is made to ensure whether the stated objectives of curriculum are achieved or not.

1.2 Academic flexibility

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

- Apart from the programs affiliated to SGBAU, the institute offer courses which basically serve the purpose of value addition. These courses are specifically for third year and final year students in order to enhance the employability skills, equip them with technical skills under industry-academic interactions. These include Short-term training programs, Aptitude tests, Group discussions and others in relevance to the core subjects of respective departments.

- *Enterprenuireship Development Program*: This is an offline learning platform conducted by department of Electronics & Telecommunication Engineering. The students are guided to undergo these courses which would help to nurture their interests and acquire relevant technical skills.

- *Soft Skills* : Soft skill is about teaching and learning a program sponsored by Campus Point Solution. The students are encouraged to undertake these courses and achieve proficiency by utilizing this platform.

- *Rankjunction National Exam Network*: An MOU has been signed with Rankjunction National Exam Network to Provide various job updates in and outside the region along with the various internship programmes, Updating students for various campus drives, Conducting various pre-assessment programmes for the students of KGIET COE.

- *Ingenio Technologies Pvt.Ltd*: An MOU has been signed with Ingenio Technologies Pvt.Ltd. Pune. India to promote interaction between KGIET COE and INGENIO Tech. in mutually beneficial areas, to provide a formal basis for initiating interaction between KGIET COE and INGENIO Tech.

- **Scout technologies pvt. Ltd***:* An MOU has been signed with SCOUT TECHNOLOGIES PVT. LTD to provide training to the students at the premises situated at KGIET Darapur, to provide necessary placement assistance to the Institution, provide the necessary infrastructure required for the training.

- *Aspa Bandsons*: An MOU has been signed with Aspa Bandsons Pvt.Ltd. Amravati. India To arrange Industrial Training for students, Identify student project work in industry, To collaborate in Industry study tour programs

- **Simulation Proteus tool**: This program is conducted at the institution to provide theory and practical skills to the graduate trainees selected by esankalp Soution Pvt. Ltd. Limited. The trainees are trained in specific identified areas of Electronics & Telecommunication Engineering and acquire skills suitable to their

job requirements.

- *APTECH LTD:* An MOU has been signed with APTECH LTD. Andheri East, Mumbai, conduct the exam as peer the terms and conditions stated, ensure the availability of infrastructure, equipments required and other facilities to conduct the exam.

- *World Wide ITES:* An MOU has been signed with World Wide ITES. Kolhapur Maharashtra, to carry out online/offline/server based exam/corporate Training, to provide the support/services stated, availability of infrastructure, equipments required and other facilities to conduct the exam.

- *AV Solar Solutions:* An MOU has been signed with AV Solar Solutions. Old City, Akola Maharashtra. Customer and Developer have discussed and decided to enter into this MOU to install, commission 45 KW Roof Top Solar Power Projects at the Darapur college premises in Amravati District. Customer will enter into Power Purchase Agreement (PPA) with Developer for period of 15 years at price of Rs. 7.75 per unit .Both the parties cannot break PPA for first 15 years of period.

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

No, the institution does not offer programmes that facilitate dual degree.

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

- *Range of Core/ Elective options offered by the university and those opted by the college* To develop generic attributes relevant to a career for the students, the SGBAU offers core subjects that are mandatory along with a wide range of electives from which the college opts for selective elective subjects based on the prospects to acquire knowledge and have a potential for benefitting academic development culminating into a career of their choice. Further in lieu with the market demand, some electives are preferred by the students which are also given due weight age during selection of electives. This provides the student with the foundation necessary to achieve a competitive advantage in attaining their career goals. The students choice of elective classes are always discussed beforehand by arranging a brief lecture on content of syllabi of electives prescribed

by the university from which the student chooses an option which is further approved by the respective department and finalized two in each semester depending on majority of students who opt for it to form a batch.

- *Choice based credit system and range of subject options*

The Credit Grade System (CGS)provides choice for students to select from the prescribed courses for both professional and free elective subjects. The semester system under CBCS accelerates the teaching learning process providing flexibility to adopt an interdisciplinary approach to learning. The choice based credit system is a facility available in the University curriculum. This provision is not availed for the core subjects by the students. However, it is applicable to the electives which are optional and are supportive to the discipline under study. The free electives offered by the respective departments for the fulfillment of the curriculum are mostly selected by the students on the basis of the current requirement of the industry.

- *Courses offered in modular form*

All the courses are designed in modular form with a definite time limit for teaching of each module. In addition, the institutional modules developed under Student Training Program for enhancing the communication and technical skills are also offered in modular form.

- *Credit transfer and accumulation facility*

The facility of credit transfer is available in the University wherein a student who has completed a semester can continue with the remaining semesters in same or different branch on requesting for a transfer to another branch of same college or to continue the course in another college under SGBAU.

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

Lateral mobility facility is available at second year level if the student wishes to change the program. For academic flexibility, the students are encouraged for interdisciplinary projects across the various courses offered to enhance their curriculum skills in a wider context. The students can avail interdepartmental facilities so as to prepare them to understand concepts and apply their knowledge and experience globally. The projects are either in-house or in collaboration with industries as per the interest of the students.

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

No.

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

For preparing the students to compete in a highly demanding market, various skill oriented programs are arranged by providing facility for special trainings courses in the college premises. Some of the programs conducted are enlisted below:

• Ethical Hacking in association with BITs Pilani are conducted for the students to achieve proficiency in which the material is shared by BITs Pilani. The students appear for exam and get certification for the same. This additional training about ethical hacking is an advanced skill development which is an add-on for employability.

• All departments of the institute offer different Value Addition Programs for final year students through external agencies for enhancing the employability. These programs are in line with the requirement of student's interest as well as the industry needs.

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

No.

1.3 Curriculum Enrichment

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

The institute academic calendar is prepared for each semester with the involvement of Heads of the Department. The institute being affiliated to the SGBAU, it does not have the option of formulating its own curriculum. But the institute, for the overall development of students strives for quality enhancement through rigorous academic discipline. Various personality development and orientation programs like those listed below are organized to fulfill the gap if any for achieving the institution goals and objectives.

- Guest lectures delivered by experts from industry and academic circles
- Inclusion of content beyond syllabus during regular lectures and practicals
- Various workshops and seminars
- Remedial classes for weaker students
- mini projects
- Tutorials and Assignments given to the students
- Various activities under different clubs of student association.
- Students Training Programme to improve soft skills
- Various value added programmes for enhanced employability

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

- Choice of open electives to the students
- Well organized industrial visits, site visits and sponsored projects to help the students in probing the contemporary aspects by themselves
- Weekly evaluating the student progress in online aptitude test.
- Alternate annual year Technical competition to showcase the student technical knowhow in a particular domain
- A well-established industrial network for the support as and when required
- Various Value Added Programs give the students a competitive edge over their peers
- Implementation of Student Training Program for better employability
- The research element is enhanced by encouraging the students to participate in

platforms like International and National Conferences, Research workshops, Technical Events.

- Organization of various programmes through Membership of ISTE, Indian Association of Structural Engineers student membership , Indian water works association, Indian water resource society, Association of consulting civil engineers, IEI, SAE.

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

Gender Issues:
- Grievance Redressal Cell against Sexual Harassment exists and conducts review meeting periodically. If required need based meetings are also conducted to resolve the issues if any.
- Organization of Women's Day in the Institute
- A Student Grievance Redressal Committee exists in institute to address gender issues if any
- Institute conducts session on Girl Child education, Women empowerment through higher education under social activity

Climate change:
- The institute is located in a lush green campus and efforts are taken for its maintenance for reducing the adverse climatic changes due to pollution.
- Regular tree plantation activities are conducted
- The institute is making attempts for the paperless communication.
- Awareness is created through display boards for implementation of economy measures for electricity, water and stationery saving.

Environmental Education:
- Stakeholders are educated for usages for non conventional energy resources.
- Attempts to promote internal communication through institutional e-mail and intercom.
- A modular course on environmental education at First Year Engineering curriculum
- Utilization of rough pages for printing
- Saplings are presented to the dignitaries as a concern towards environment
- Celebration of World Environment Day, Earth Day, Water Day, Yoga Day etc.
- Organization of environment related programs at nearby rural villages

through a student body.

Human Rights:

- A course on Skill Development on Human Rights Education is made mandatory
- Earn and Learn Scheme is implemented for the selective economically backward students
- Scholarship schemes from Government of Maharashtra are implemented as per the norms
- Initiation on NSS, Grievance Cell, Anti ragging Activity, Cell against Women sexual harassment

ICT:

- Well equipped Class rooms.
- Wi-Fi connectivity and Internet Centre
- Excellent laboratories infrastructure for practicals
- Effective use of Online Examination software for the students who are weaken in their academic curriculum and industry oriented apptitute test.

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

Moral and ethical values

1.3.4.1 Students coordinate the activities and events in the Institute (Prayukti , Innovision & many more)

1.3.4.1   Important aspect of Teacher Guardians counseling

1.3.4.1 Observance of Days of National Importance

Employable and life skills

1.3.4.2   Continuous efforts through Lecture series and orientation by T& P Cell and faculty coordinators

1.3.4.3   Conduction of Online Aptitude Tests.

1.3.4.4   Guest Lectures, Seminars, Presentations are encouraged for improving the presentation skills.

1.3.4.5   Feedback from recruiters and alumni.

Better career options

1.3.4.6   The ever increasing list of recruiters through Job Fair

1.3.4.7   Orientation by companies on/off campus.

1.3.4.8   MoU's for improving technical skills of students.

1.3.4.9   Exploring the opportunities for higher studies by means of Educational fair.

Community orientation

1.3.4.10 Organizing and participating in Blood Donation Camps

1.3.4.11 Organizing various social activities under National Service Scheme (NSS)

1.3.4.12 Regular conduction of activities like computer literacy, girl child education etc. for improvement of villagers

1.3.4.13 Involvement with social associations like Police Mitra, Gram Swach Abhiyan, Cashless Awareness Program.

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

A regular feedback from all stakeholders is taken, based on which revision of content delivery is done. The stakeholders include students, Exit students' survey, parents, Industry and Alumni. The feedback is critically analyzed for inclusion of changes and improvements in teaching learning methodology like inclusion of content beyond syllabus, allocation of subject to expert faculty for extra inputs, delivery of content through Industry person, organizing industrial visit for better understanding of topic etc.

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

The feedback outcomes are utilized for inculcating excellence in the way of working. The analysis of feedback is discussed with Industry, Alumni, and Exit Students who give inputs to bridge the gap as per the industry's expectations. The quality of the programme is enhanced by organizing and conducting various Value Added Programmes, Student Training Programmes, and Guest Lectures from resource person from industry and academics.

1.4 Feedback System

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

The contributions of the faculty of this institute in the design and development of the curriculum of the University. In addition, many faculty members from the institute participate and contribute in syllabus making of all programs of the University. The institute has representatives in various bodies of the Sant Gadge Baba Amravati University like BOS, faculty, academic council and Subject Expert Committee, Valuation Experts etc.

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

The Institute has online and offline mechanism to obtain feedback from students and other stakeholders like Final Year students (Exit survey), Alumni, Parents and Industry. It has a well-designed feedback form with defined criteria to get feedback from each category of stakeholder. A Course Feedback on curriculum and examination/evaluation pattern is taken from students in each semester. The Parent Feedback Form is used to know their opinion about Institute, Infrastructure, Professional expectations. The Exit Student Survey Form is designed to know the fulfillment of their educational goals. The Industry Institute Interaction form is used to understand and bridge the gapbetween the institute and industry.

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

Yes, new UG & PG programmes/courses were introduced by the institution during last 4 years. However the Civil Engineering, Master of Engineering in Computer Science & Engineering, Electrical Engineering were started in the year 2013-14 for better utilization of infrastructure as the institute already had.

1.4.4 Any other relevant information regarding curricular aspects which the college would like to include.

Nil .

CRITERION II: STUDENT ENROLLMENT AND PROFILE

2.1 Student Enrollment and Profile

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

The admission process and publicity of the institute is highly transparent and ethical. The details are explored below-

Publicity - Advertisement in various exhibitions across country, Brochure of State Government Websites, Newspapers, magazines etc.

Transparency - UG, PG admission processes are highly transparent based on respective admission criterion set by Sant Gadge Sant Gadge Baba Amravati University (SGBAU), Directorate of Technical Education (DTE) - Maharashtra and All India Council for Technical Education (AICTE), New Delhi.

The information of all these programmes is available on official institute website as mentioned in Table 2.1.1.

Table 2.1 - Information regarding admission process

Sr. No.	Programme	Website / Link
1	UG - Under Graduate (BE)	www.kgiet.ac.in/
2	PG - Post Graduate (ME)	

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

The Criteria adopted and process of admission is according to Sant Gadge Sant Gadge Baba Amravati University (SGBAU), Directorate of Technical Education (DTE)– Maharashtra and AICTE rules and regulations–

- Admission Criterion for UG - 65% (CET/JEE and 12th), 15% (AIEEE and 12th) 20% (Institute Level Quota). The detailed procedure of UG admission process is shown in Fig.2.1.
- Admission Criterion for PG – 80 % (GATE Score OR State level Common Entrance Test) and 20 % Institute Level Quota -

| Result declaration of HSC (Std.XII) and JEE (Mains) examination |

↓

| Sale of Application Kit, Online filling & Submission of Application as per the type of candidature through DTE, MS website http://www.dtemaharashtra.gov.in |

↓

| Document Verification and confirmation of Online Application form by Maharashtra State (MS) (Quota: 65%) and All India (AI) candidates (Quota: 15%) in person at Application Receipt Centers (ARCs). |

↓

| Display of Provisional Merit list on website for Centralized Admission Process (CAP) Rounds. |

↓

| Submission of grievance applications, if any, by MS, AI candidates at respective ARCs. |

↓

| Display of final merit list on website subject to declaration of JEE (Main) 2015 (Paper 1) All India Rank by CBSE & Category wise Seat Distribution on website. Merit list will be as per composite score (PCM+JEE Mains) |

| Online Submission & Confirmation of Option Form of CAP Round-I through Candidate Login by themselves. |

↓

| Display of allotment of CAP Round-I for MS & AI Candidates (as per the reservations stated by Govt. | → | Not allotted the seat/not reported to college (if the allotted seat is not compulsory) |

↓

| Reporting to the institute as per allotment in CAP round-I |

↓

| Online Submission & Confirmation of Option Form of CAP Round-II through candidates Login by themselves. |

↓

| Display of allotment of CAP Round-II for MS & AI Candidates. | → | Not allotted the seat/not reported to college (if the allotted seat is not compulsory) |

↓

| Reporting to the institute as per allotment in CAP round-II |

↓

| Display of Institute wise vacancy position followed by Round of Admission CAP Round-III (by counseling) only for the MS candidates in person |

↓

| Reporting to the institute as per allotment in CAP round-III | → | Commencement of academic activities |

Fig. 2.1-Admission process adopted for first year undergraduate programs.

2.1.3 Give the minimum and maximum percentage of marks for admission at entry level for each of the programmes offered by the college and provide a comparison with other colleges of the affiliating university within the city/district. The data for minimum and maximum percentage of marks with peer colleges in Amravati district are not available for comparison because the entry level admissions are only through CAP and are managed by DTE, Government of Maharashtra. The information for minimum and maximum marks (CET/JEE/AIEEE or equivalent) for admission at entry level for each of the programmes offered by the college is mentioned in Table 2.2.

Table 2.2 - Minimum and maximum marks for admission in year wise.

Sr. No.	UG Programme	Year of Admission	Maximum Marks		Minimum Marks	
			CET	AIEEE/JEE	CET	AIEEE/JEE
01	Mechanical Engineering	2016-17	58	69	15	19
		2015-16	**	**	**	**
		2014-15	**	**	**	**
		2013-14	83	51	30	20
		2012-13	81	29	37	19
		2011-12	78	24	34	18
02	Electrical Engineering	2016-17	54	63	54	20
		2015-16	**	**	**	**
		2014-15	**	**	**	**
		2013-14	90	61	36	14
		2012-13	70	-	43	-
		2011-12	68	39	39	26
03	Computer Science & Engineering	2016-17	91	50	49	35
		2015-16	**	**	**	**
		2014-15	**	**	**	**
		2013-14	70	26	38	26
		2012-13	94	29	44	29
		2011-12	68	38	47	07
04	Electronics & Telecommunication Engineering	2016-17	-	55	-	21
		2015-16	**	**	**	**
		2014-15	**	**	**	**
		2013-14	72	19	35	19
		2012-13	75	30	38	30
		2011-12	63	23	32	11
05	Information Technology	2016-17	-	-	-	-
		2015-16	**	**	**	**
		2014-15	**	**	**	**
		2013-14	-	-	-	-
		2012-13	70	-	55	-
		2011-12	66	25	41	25
06	Civil Engineering	2016-17	72	60	41	54
		2015-16	**	**	**	**
		2014-15	**	**	**	**
		2013-14	NA	NA	NA	NA
		2012-13	NA	NA	NA	NA
		2011-12	NA	NA	NA	NA

*[Note:- **In table no.2.2. For Academic year 2014-15 & 2015-16 figures related with CET & AIEEE provided by DTE was in form of merit no. & not as marks, Therefore figures are not mentioned in respective cells.]*

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

The Institute takes review of the admission process as well as cut-off merit values each year. Since, preference of admission by the students is based on placement status, quality of faculty and infrastructure; Institute takes care of it through the following measures -

- Institute Level Placement Cell
- Job-Fair / Core Placement Drive (CPD)
- Parents meet and mouth publicity
- Induction Programs for FE, Directly admitted SE and ME students
- Second year Direct admission help desk
- Strengthened library
- Fostering the laboratories
- Recruitment of excellent faculty (human resource)
- Branch wise cut-off merit data
- Student Training Program (STP)

The above measures have improved the overall academic progress of the students in the campus thus creating a positive impact on overall admission process.

2.1.5   Reflecting on the strategies adopted to increase/improve access for following categories of students, enumerate on how the admission policy of the institution and its student profiles demonstrate/reflect the National commitment to diversity and inclusion

- SC/ST
- OBC
- Women
- Differently abled
- Economically weaker sections
- Minority community
- Any other

- The admission process is transparent, merit based and ethical based on rules and regulations / norms set by University, State Government and AICTE. Hence, the institute is committed to the diversity and inclusion of SC; ST; OBC; Woman; Differently-abled; Economically weaker sections-EBC, SBC; Minority community; NT; VJ etc. according to the national norms.

- Institute offers seats to SC/ST, OBC, NT, VJ students under (TFWS - Tuition Fee Waiver Scheme) as per the state government norms, rules and regulations.
- Institute management offers complete fee waiver to economically weaker students.
- There is a special quota for the candidates of Jammu and Kashmir (J & K), Person of Indian Origin (PIO) and Indian Council for Cultural Researcher (ICCR) students as per the rules, regulations and national norms.

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

The details of various programmes offered by the Institution during the last six years are mentioned in Table 2.3. (A & B).

Table 2.3.(A) -Information regarding various UG Programmes offered

Sr. No.	UG Programme	Year of Admission	Number of Applications	Number of Students Admitted	Demand Ratio
1	Mechanical Engineering	2016-17	Admission process in the state is only through CAP and governed by Director Technical Education (DTE), Government of Maharashtra. The Institute follows the rules, regulation and guidelines set by Sant Gadge Baba Amravati University, Maharashtra State Government and AICTE.	21	0.22
		2015-16		67	0.56
		2014-15		56	0.47
		2013-14		114	0.95
		2012-13		52	0.43
		2011-12		85	0.71
2	Electrical Engineering	2016-17		10	0.33
		2015-16		33	0.55
		2014-15		17	0.28
		2013-14		43	0.72
		2012-13		18	0.3
		2011-12		26	0.43
3	Computer Science & Engineering	2016-17		5	0.08
		2015-16		17	0.28
		2014-15		14	0.23
		2013-14		22	0.37
		2012-13		9	0.15
		2011-12		27	0.45
4	Electronics& Telecommunication Engineering	2016-17		6	0.1
		2015-16		15	0.125
		2014-15		16	0.13
		2013-14		27	0.225
		2012-13		24	0.20
		2011-12		30	0.25
5	Information Technology	2016-17		0	0
		2015-16		0	0
		2014-15		0	0
		2013-14		0	0
		2012-13		2	0.3

		2011-12		6	0.10
		2016-17		14	0.47
		2015-16		54	0.90
6	Civil Engineering	2014-15		13	0.22
		2013-14		NA	NA
		2012-13		NA	NA
		2011-12		NA	NA

Table 2.3.(B) - Information regarding PG programmes offered by the institute

Sr. No.	PG Programme	Specialization	Year of Admission	Number of Applications	Number of Students Admitted	Demand Ratio
1	Mechanical Engineering	CAD-CAM	2016-17	Admission process in the state is only through CAP and governed by Director Technical Education (DTE), Government of Maharashtra. The Institute follows the rules, regulation and guidelines set by Sant Gadge Sant Gadge Baba Amravati University, Maharashtra State Government and AICTE.	03	0.17
			2015-16		06	0.33
			2014-15		17	0.94
			2013-14		16	0.89
			2012-13		12	0.67
2	Electrical Engineering	Electrical Power System	2016-17		04	0.17
			2015-16		15	0.63
			2014-15		24	1
			2013-14		--	--
			2012-13		--	--
3	Computer Science & Engineering	Computer Science & Engineering	2016-17		5	0.21
			2015-16		16	0.67
			2014-15		24	1
			2013-14		--	--
			2012-13		--	--

2.2 Catering to Student Diversity

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

The institute understands the needs of differently-abled students. Various facilities and comfort zones are created to serve this purpose. The prominent of them are -

- Ramps are available in campus wherever needed.
- Western seating toilet in washrooms
- Extra ½ hour in examinations
- Intercom in each hostel room
- Free of cost - Campus Health Clinic (CHC), Dental Hospital, General Hospital
- Medical Insurance Scheme

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

The institution does not assess the student's needs in term of knowledge at the time of admission. However, overview and review of skill sets and liking of the students are considered through department wise induction programs for FE as well as SE directly admitted students to make the students aware of the infrastructure, facilities and faculty in detail. The Principal as well as training and placement officer give detailed presentation to the students and make them aware of the need of skill sets they should gain during the tenure of four years. Similarly, head of each department gives detail presentation to the newly admitted students of respective program. The skill set status and the needs of the students are identified after these programs. Based on these needs, various value additions are done at institute as well as department level. The activities planned and carried out accordingly are -

- Training Program (STP) I, II, III, IV, V,VI, VII and VIII
- Motivational lectures / seminar sessions for first year students
- Value Addition Programs
- MESAA, ELESA, EESA, ACSES, CESAA technical club and other related activities

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

The institute organizes following activities to accelerate the students in learning mode to

bridge the knowledge gap so that the enrolled students can cope up with the programme and become employable -

- Guest lecturers/seminars of eminent personnel
- Workshops for hands on training
- Paper presentations and quiz competition
- Technical competitions and programs under professional bodies like ISTE, Society for Automotive Engineers *(SAE)* etc.
- Value Addition Programs
- In-house Spoken tutorials workshops.
- Students Training Programs - Core subject enrichment, latest technical courses, communication skill development
- Faculty assistance for students opting GATE examination
- Sponsored Projects from industry (SBI funding for SAE BAJA *(BAHA)*
- GK and Aptitude tests
- Employability Tests from private agencies *(Rank junction)*

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

The Institute understands the need of comfort based on gender and environment. There is no discrimination on these issues. On the other hand, institute sensitizes staff and students on these issues through the following mechanism -

- Anti-ragging Committee
- Women Grievance Cell for Sexual Harassment
- Grievance Redressal Cell
- Induction Programs for newly admitted students
- Guardian Teacher (Mentor) Scheme at all the departments
- Organization of Social Awareness Contests and Activities
- National Service Scheme (NSS) – supported by Sant Gadge Baba Amravati University. N.S.S. Activity for promoting the social values among the students
- Management Body interacts with the college policies and vision in creation of good working environment.
- Head of Department regularly monitors academic and discipline environment by visiting individual classes.

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

Institute identifies the special educational / learning needs of advanced learners through - Student's feedbacks, discretion and recommendation of respective subject teaching faculty, identification by external agencies /trainers, suggestion by respective Guardian Teacher (Mentor) and Result analysis.

The needs of such advanced learners is fulfilled through the following measures Special efforts by subject teachers in extra hours

- Specific Value Addition Programs (VAP) based on the student's choice

- Special assistance for higher studies like GATE

- Inclusion of such students in technical forums like IEEE, CSI, SAE etc.

- Provision of internship for special hands-on experience at industry & Training centers like IGTR, TPS, M&M etc.

- Allotment of industry supported projects

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

The Institute takes care of such category of students through the following ways -

- Economically weak students are taken care through -
  - ➢ Relaxation in fee payment through installments
  - ➢ Concession in fees by management

The concession in fees by various agencies such as AICTE, State Government etc. are given. These schemes are Scholarship/Freeship, SC/ST, OBC, NT, VJ, EBC, SBC, Tuition Fee Waiver Scheme (TFWS), Minority State Govt., and Minority State Central Govt.

- Slow learner and academically weak students -
  - ➢ Additional classes
  - ➢ Counseling through Guardian Teacher (Mentor)
  - ➢ Practical - extra practices
  - ➢ Provision of learning material e.g. videos, PPT, animations, etc.

- Analysis of the performance of the students to be done based on -
  - ➢ Attendance
  - ➢ Test Results
  - ➢ Continuous Evaluation throughout semester

2.3 Teaching-Learning Process

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

• The institution follows the academic calendar, teaching schemes and evaluation blue print provided by Sant Gadge Sant Gadge Baba Amravati University, Amravati. Based on this academic calendar, the institution plans its academic schedule. The academic program comprises of two semesters. Before the beginning of every semester, the head of the department allots courses for the faculty members based on their preference and expertise.

• Each faculty member prepares a detailed course lesson plan which includes the topics to be covered during each class hours and the list of books to be referred along with the mode of teaching.

• Each faculty member prepares a course file that includes lesson plan, time table, question bank with solutions, power point presentations, solved previous year's university question papers etc. in accordance with the syllabus prescribed by Sant Gadge Sant Gadge Baba Amravati University, Amravati. The course files are verified by the head of the institution through the head of the departments.

• Two Sectional Unit Tests (UT) per semester are conducted by the college through a centralized examination cell. The UT papers are evaluated by the concerned faculty member in the next three days and distributed to the students for clarification. The UT marks and attendance class wise are then displayed on respective department notice board for information of students.

• Assignments, tutorials, seminar etc. are given and also the additional topics for theory and laboratory are covered. The evaluation pattern consists of continuous internal assessment and university examination with 20% and 80 %weightage respectively. The internal & university assessment structure for theory and practical is tabulated bellow.

• End semester examinations are conducted by Sant Gadge Sant Gadge Baba Amravati University, Amravati. Once the university declares the results, each department prepares a detailed result analysis wherein the performance of students for each subject is evaluated and reasons for failure is deliberated there upon.

Table 2.4 - Evaluation details followed by Institute as per guidelines of SGBAU.

Internal Assessment					University Assessment	
Theory (20 Marks)			Practical (25 Marks)		Theory (80 Marks)	Practical (25 Marks)
Two UT	Assignments /tutorials etc.	Atten-dance	Cont. evaluation	Lab Test	University Exam	Lab test/ Viva etc.
10	5	5	15	10	80	25

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

The institution has constituted an Internal Quality Assurance Cell (IQAC) to monitor and improve the academic performance of the institution. The role of IQAC of the college involves collecting periodic feedback from the students and the staff, analyzing the feedback and suggesting ways for improving teaching-learning process. The members of IQAC also meet periodically to evolve strategies for the quality enhancement in teaching learning process. The strategies evolved are communicated to the staff and the students through in-house meetings.

Table 2.5 - IQAC Members and Designation

SN.	Name	Designation and affiliation
Chairperson		
1.	Dr. S. M. Kherde	Member – Campus Director/Principal
Members from the Management		
2.	Smt. Kirtitai R. Arjun	Vice President –SDGCT, Amravati
3.	Prof. P. R. S. Rao	Administrative Officer –SDGCT, Amravati
Member from Local Societies		
4.	Prof. D. V. Shirbhate	Member – Coordinator (Engg. Programs)
5.	Shri. Deep Vijay Varma	Member –Principal Scientist, MGIRI, Wardha
Eight Teachers		
6.	Prof. N. S. Ghotkar	Head – First Year Engg.
7.	Prof. S. T. Warghat	Head– Mechanical Engg.
8.	Prof. V. P. Nikam	Head – Computer Science & Engg.
9.	Prof. A. N. Kausal	Head – Electrical Engineering
10.	Prof. Mrs. B. S. Shete	Head – Civil Engineering
11.	Prof. N. V. Raut	Head – Electronics & Telecommunication Engg.
12.	Prof. T. N. Ghorsad	Head – Information Technology
13.	Dr. Ms. P. M. Pete	Librarian
Administrative Officers		
14.	Prof. K. G. Hirde	Training and Placement Officer
15.	Shri. Y. L. Sawai	Accounts Officer
Coordinator IQAC		
16.	Prof. D. B. Pawar	Faculty –Mechanical Engineering

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

The institution periodically collects feedback from the students about the teaching learning process. Based on the feedback, the head of the institution and the head of the departments take remedial measures if needed to improve the teaching learning process. Thus, learning is made student-centric.

Interactive Learning

• Real Time examples, Assignments and case studies are given to create interest among students. Association activities, Seminar, Assignments, Group discussion, debates, brain storming sessions induce Interactive learning.

• Guest lectures are periodically arranged through the department association and the students are encouraged to interact with the resource persons.

Collaborative Learning

• Students are encouraged to present papers on current trends and technologies in seminars, mini projects, workshops, symposiums and conferences to facilitate collaborative learning.

• Association, workshops, cultural events, sports events and conferences are organized for the benefit of students.

• Students are encouraged to visit industries and undergo In-plant training programs. Students are permitted to take Industry projects.

• Students are also taken for industrial visits and encouraged to undergo internships which promotes interactive and collaborative learning.

• Technical event are conducted to encourage the students to involve in innovative practices at institute for college and outside students.

Independent Learning

• The institution provides a well-stocked library which includes latest books, print journals, e–books and e-journals. Students are encouraged to use the library independently to enhance their knowledge.

• The institution has an adequate number of computers with a 100 Mbps leased line and 10 Mbps broadband, also Wi-Fi facility with 2 Mbps speed. Students can use the same for independent learning.

• Copies of project reports of passed-out UG and PG students, NPTEL materials, educational CD/DVD are available in the library which support independent learning.

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

The institution has the following practices to nurture critical thinking, creativity and scientific temper among the students to transform them into life-long learners and innovators. Experimental learning, participative learning, and problem solving

methodologies are usedfor enhancing learning experiences. The teacher's role is that of a facilitator who supports self-development of knowledge and skill formation through participatory learning activities.

Students are encouraged,

• To organize and/or attend seminars, symposiums, conferences, project expos and workshops.

• To participate in various state/national/regional competitions organized by other organizations.

• To become members of professional societies like ISTE, SAE and IEEE.

• To become active members of one or more clubs that is functioning in the institution.

• To carry out mini-projects and model building.

• To organize intercollegiate activities.

• To publish their project/research works in scientific journals.

• To undergo online certificate courses.

• To involve in research work along with the faculty members

• To interact with experts during guest lectures

• To undergo internships and are taken for industrial visits

• To patent their projects/innovations

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

- All the departments have multimedia materials to make the students to understand the complex engineering concepts (Open source course materials)
- Number of faculty attended STTP organized by National Mission on Education through Information and Communication Technology (NME-ICT)
- Faculty members provided with individual systems with internet access to learn frome-learning resources like NPTEL, NME- ICT, etc.
- The library has ample number of CD's, easy access to internet, newspapers, journals and periodicals.
- Most of the class rooms are provided with teaching aids like LCD projector, OHP, smart Board etc. to support effective teaching.
- The faculty members utilize the NPTEL resource materials & Spoken tutorials of IIT'sin the institute for effective teaching.

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

- The institution encourages the faculty and students to actively participate in seminars, workshops, conferences and symposiums conducted by other institutions to learn the advanced technologies and collaborate with the peers from other institutions.

- The institution also regularly organizes symposium, conference, workshops and seminars by inviting eminent professionals in their respective areas to facilitate the faculty and the students to interact with such eminent persons.

- The faculty members are regularly deputed to attend the faculty development programme and other skill development programmes organized by other institutions.

- Value added courses are given for the students to keep themselves abreast of the technical advancements.

- The institution also organizes programmes with corporate and industry personnels to share their knowledge with the faculty and the students.

- Students are encouraged and facilitated for industrial visits, in-plant training and internships.

- The faculty and the students are also encouraged to adopt NPTEL materials and other open source materials available in the Internet.

Table 2.6 shows the details of various programme conducted at institute level for the faculty benefits & development such as faculty development programme (FDP), guest lectures, workshops, etc.

Table 2.6 - Number of Programmes conducted for benefit of Faculty

Academic Year	FDP	Conference	STTP's	Workshop	Guest Lecture
2016-17	2	1	2	1	3
2015-16	2	1	3	2	4
2014-15	2	1	4	1	3
2013-14	2	1	2	1	4
2012-13	2	1	3	1	5
2011-12	2	1	2	1	3

Table 2.7 shows the details of various programme conducted at institute level for the student benefits such as guest lectures, workshops, value added courses, industrial visits, etc.

Table 2.7 - Number of additional learning programmesconducted.

Name of Department	Academic Year	Guest Lecture	Workshops	Value added courses	Industrial visit
Mechanical Engineering	2016-17	3	1	1	2
	2015-16	3	1	1	3
	2014-15	3	1	1	3
	2013-14	2	1	1	2
	2012-13	3	1	1	2
	2011-12	3	1	1	2
Electronics & Tele-communication Engineering	2016-17	2	1	1	1
	2015-16	3	1	1	1
	2014-15	2	1	1	2
	2013-14	2	1	1	1
	2012-13	2	1	1	1
	2011-12	3	1	1	1
Computer Science & Engineering	2016-17	2	1	1	1
	2015-16	2	1	1	2
	2014-15	2	1	1	1
	2013-14	2	1	1	1
	2012-13	3	1	1	1
	2011-12	3	1	1	1
Electrical Engineering	2016-17	2	1	1	2
	2015-16	2	1	1	2
	2014-15	2	1	1	1
	2013-14	2	1	1	1
	2012-13	1	1	1	1
	2011-12	1	-	-	-
Civil Engineering	2016-17	1	1	1	1
	2015-16	1	1	1	1
Humanities & Science (First Year)	2016-17	2	1	-	1
	2015-16	2	1	-	-
	2014-15	2	1	-	-
	2013-14	1	1	-	1
	2012-13	2	-	-	-
	2011-12	2	-	-	-

2.3.7 Detail (process and the number of students benefitted) on the academic, personal and psycho-social support and guidance services (professional counselling/mentoring/academic advice) provided to students.

- Teaching faculty in general provide constant support and guidance in day-to-day activities.
- The class/ward counsellors periodically counsel their class students individually to instill confidence in them. The class counsellors convey the

difficulties of their ward students to the head of the department for taking remedial measures.

- Parents, if needed, are also involved in the counselling process when a student does not show interest in studies. If a student does not show any improvement even after repeated counselling by the ward counsellor, then counselling and motivation is given by the head of the department and the head of the institution along with the class counsellor.
- If needed, emotional counselling is also provided through professional counsellors. Additional remedial coaching is given after the regular working hours and during holidays.
- Rarely, the behaviour of some students deviates from the normal behaviour due to their personal or psycho-social reasons. For such students, emotional counselling is provided through professional counsellors. Special scholarship/free ship is also provided for the deserving students.

Table 2.8 - Number of students benefitted through counseling

Programme	2016-17			2015-16			2014-15			2013-14			2012-13			2011-12		
	A	P	PS	A	P	PS	A	P	PS	A	P	PS	A	P	PS	A	P	PS
B.E. Mech	11	2	-	9	2	-	9	-	-	8	1	-	6	-	-	10	1	-
B.E. EE	5	1	-	3	1	-	4	-	-	7	2	-	3	-	-	7	2	-
B.E. CSE	4	1	-	7	-	-	8	2	-	6	-	-	7	2	-	4	-	-
B.E. EXTC	6	1	-	8	2	-	5	1	-	9	1	-	8	1	-	5	1	-
B.E. Civil	7	1	-	8	2	-	Not Applicable											
B.E. First Year	5	1	-	6	1	-	5	1	-	8	2	-	7	2	-	9	2	-
M.E. CAD/CAM	1	-	-	1	-	-	2	-	-	2	-	-	1	-	-	Not Applicable		
M.E. CSE	2	-	-	1	-	-	1	-	-	Not Applicable								
M.E. EPS	2	-	-	3	-	-	3	-	-	Not Applicable								

In table, A-Academic counselling, P- Personal counselling and PS- Psycho-social counselling

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

Innovative teaching approaches / methods adopted by the faculty

- Animated videos are used.

• Students are grouped comprising of advanced learners, average learners and slow learners. They are facilitated to learn through discussions. Such a group study helps the slow learners to a great extent.

• Extensive use of NPTEL and other open source course materials available in the web.

• Case studies are given to the students for better application and analysis of the concepts.

• For innovative learning the faculty adopts various innovative teaching methods like class presentations using LCD, group discussion and experimental learning.

• Based on the subject learned by the students, mini and major projects are assigned for correlating theory and practical sessions.

Efforts made by the institution to encourage the faculty to adopt new and innovative approaches

• The faculty members are deputed to learn new and innovative teaching concepts from other organizations. Faculty is encouraged to present papers, publications, attend Workshops, Seminars, FDPs and Conferences which provides an exposure in their respective subject of interest. Faculty Development Programmes are conducted frequently.

• ICT enabled class rooms with LCD projector and other audio visual are established.

• Wi-Fi facility is provided inside the campus.

• Laptops and LCD projectors are provided to every department.

• An additional computer laboratory has been established to practice innovative approaches.

• Institution has collaboration with Professional bodies like ISTE, IEEE, IEI, SAE, etc.

Impacts

• The confidence of the student gets improved by involving in the activity based learning and the academic performance of students is continuously improved.

• Students learn the concepts easier and better. This leads to better student-teacher relation and interaction.

• Students find easier to crack the placement test and interviews. Students also find confident of completing project works.

• Many institute students have achieved University ranks and overall university examination result also improved.

• The number of students participating in co-curricular and extracurricular activities is also increased.

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

• The Library has an excellent collection of books, journals, magazines, technical reports and CDs in Science, Engineering, Technology, Humanities and Management.

• It is equipped with modern Lib OPAC (Online Public Access Catalogue) and the users can search the library online catalogue by author's name, title, subject or keywords.

• The institution encourages the staff and the students to utilize the library resources effectively. The library committee functions to facilitate to smoothen the access of library resources.

• One hour per week is designated as library hour for the UG and PG programmes to inculcate a culture of visiting library regularly.

• Additional books are provided as "Book-Bank" to needy UG student as per category wise on the basis of merits.

• UG students in the eighth semester and PG students in the second year can utilize the library at any time during working hours for their project work and career preparation as they have only limited number of contact classes during that semester.

• The faculty members and students can utilize the library to borrow books. They can also use the library to read books in the reference section (includes books for competitive examinations and placement test), journals, magazines and newspapers every day.

• Internet and reprographic facility are also available. Digital library can be utilized for the access of open source course materials, NPTEL videos and for on-line journals and magazines. In the library they can access research article, e-journals such as J-Gate, ASME and facilities like NDL, DELNET*(in process) etc.

• The staff and the students frequently visit the library towards their preparation for conferences, symposiums, seminars and workshops.

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

No, the institution is able to complete the curriculum within the period stipulated by the Sant Gadge Sant Gadge Baba Amravati University, Amravati. Since the lecture plans are prepared well in advance and their implementation is monitored, the

institution does not face any challenge in completing the curriculum within the planned time frame and calendar days. Cancellation of working days due to any unexpected natural phenomenon or due to any other reasons is duly compensated by working on holidays.

2.3.11 How does the institute monitor and evaluate the quality of teaching learning?

• The faculty members are strictly appointed on the basis of their performance in the faculty selection interview process. Courses are allotted for the faculty members strictly based on their interest and expertise.

• The faculty members are expected to follow the well-defined procedure framed in the institution in the teaching learning process. The head of the institution continuously monitors the performance of the faculty members through the respective head of the department.

• Feedbacks from the students are collected twice in a year. Secrecy of the students is strictly maintained. Their feedback is scrutinized by the head of the institution and communicated to the respective faculty members through the concerned head of the department.

• The suggestion box is placed in all departments and in the college office wherein students write about their experiences of the teaching-learning process.

• Head of the Institution and Head of the department visits during class hours to monitor the ongoing sessions.

• Suggestions of programme advisory committee, feedback received from the alumni, employers during campus recruitments, parents and other stakeholders are also taken to improve the teaching learning process.

• The institution assesses its faculty members through a well-structured appraisal system during the end of every academic year. The appraisal comprises of four major criteria namely performance in academic activities, contribution to research, and administration and extension activities with varying weightages.

• At the end of every academic year, faculty members have to submit their self-appraisal reports to the concerned head of the department who after verifying the facts, forwards the same to the head of the institution with the remarks.

• The head of the institution again verifies all the details and evaluates the same with the help of experts from outside the institution. The head of the institution then forwards the same to the management with recommendations. The management thus assesses the performance of each individual faculty.

2.4 Teacher Quality

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

Recruitment Strategy

The institution follows a transparent policy for the recruitment of the faculty members. During the last quarter of every academic year, based on the AICTE/ University norms, workload for the next academic year, number of vacancies in each department is calculated. Then, an advertisement about faculty recruitment is released in leading newspapers and also displayed in the institutional website. All the applications received in response to faculty recruitment advertisement are scrutinized by the head of the institution in consultation with the concerned head of the department. The short-listed candidates are called for an interview. The faculty selection committee comprises of the management representative, head of the institution, head of the department concerned, senior faculty members along with an external expert from another reputed organization. The interview is conducted and the candidates are ranked solely based on their performance. The head of the institution in consultation with the management finally appoints the candidates.

Table 2.8 – Number of faculties designation wise at institute level.

Highest Qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent teachers							
D.Sc./D.Litt.	-	-	-	-	-	-	-
Ph.D.	1				1	3	4
M.Phil.	-	-	-	-	5	2	7
PG					64	31	95
Adhoc							
Ph.D.	-	-	-	-	-	-	-
M.Phil.	-	-	-	-	-	-	-
PG	-	-	-	-	13	2	15

Note: Adhoc faculties have less than two year's experience.

Retention strategy

• The institution provides a conducive environment for the working of the faculty members.

• Execution of appropriate pay scale as per AICTE norms

• In addition to basic pay and allowances, the faculty members are provided with EPF and Group Insurance.

• Implementation of updated dearness allowance from time to time

• Additional incentives such as higher designation with pay for deserving and committed faculty.

• Financial support in the form of registration fees is provided to the faculty members to participate and present research articles in international conferences.

• The institution provides necessary support and facilities for higher studies and research work.

• Transport Facility is available to all staff members from various places

• Casual leave, on-duty leave, vacation leave, medical leave, maternity leave are provided to the faculty members.

• Cash awards are given to the faculty members for producing 100% pass percentage in their courses, publishing research articles in journals and for fetching seminar/workshop/research grants from other organizations.

• The faculty members are deputed for faculty development programmes, seminars, workshops with on-duty leave and allowances for travel and stay.

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

- Train the trainers programme is adopted before the start of every semester to teach new programme and emerging areas. Also, efforts are made to cater the need of teaching methodology.

- Workshops are conducted to have hands-on to new technology.

- Conferences are organized to inform about the thrust research areas.

- Technical books are procured as per the requirements by faculty.

- Promoting the faculty to get associated with industries of his/her own interest domain.

- The institution takes all steps such as providing high salary, to recruit teachers who are fully qualified and specialized in the required areas.

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

The Institute is very keen and aware of the need for enhancement in the quality of technical and continuous up gradation of the teacher. Following types of programs are organized by the departments and institute to full fill this -

- Staff Development Programs (SDP)
- Faculty Development Programs (FDP)
- Short Term Training Programs (STTP)
- Faculty Orientation Workshops (FOW)
- Administrative Skill Development Programs for Principals and Heads
- International Conferences
- National Conferences
- Industrial Training

a) **Nomination to staff development programmes**

Table 2.9 –Number of staff nominated for development programmes

Academic Staff Development Programmes	Number of faculty nominated
Refresher courses	0
HRD programmes	0
Orientation programmes	4
Short term training programmes	46
Summer/winter schools, workshops, etc.	61

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

Teaching learning methods/approaches: The institution organizes facultydevelopment programme on teaching learning methods/approaches during the beginning of every academic year.

Handling new curriculum: Whenever there is a change in curricula and syllabi, the institution has a practice of convening the meeting of the faculty members department-wise to have a discussion about the same.

Content/Knowledge management: IQAC regularly organizes programs on Content/Knowledge management by inviting experts/resource persons from industry and academia.

Selection, development and use of enrichment materials: The quality improvement cell formed in the institution organizes programmes once in a year for the faculty members about the selection, development and use of enrichment materials.

Assessment: The faculty members strictly follow the assessment procedure prescribed by Sant Gadge Sant Gadge Baba Amravati University for the continuous assessment in academics. However, whenever corporate personnel visits the institution for campus recruitment/ delivering talks, an informal meeting is arranged with head of the departments to have an understanding of the corporate assessment and evaluation procedure. This helps the institution to take necessary steps to train the students on the same lines.

Cross cutting issues: Awareness programmes on cross cutting issues like environment awareness, climate change, gender issue, and human rights are organized through NSS Camp.

Audio visual aids/multimedia: IQAC organizes training programmes once ina year to the faculty members about the selection and use of audio visual aids and multimedia.

OER's: IQAC organizes training programmes to the faculty members on the use of open educational resources.

Teaching learning material development, selection and use: Senior faculty members of the department guide the junior faculty members about the preparation of lecture notes and assignments from text books, reference books, journals and magazines and open source materials available in the web.

The Human Resource (HR) - faculty of the institute gained well reputation and invited as resource persons in various events in the region. The faculty members had been as resource persons in workshop / seminar / conference / etc. organized Percentage of faculty Invited as resource persons in Workshops / Seminars / Conferences organized by external professional agencies

Faculty member participated in the external Workshops / Seminars / Conferences recognized by national/ international professional bodies

The following Table shows number of paper presented in Workshops / Seminars/ Conferences conducted or organized by professional agencies

Table 2.10 –Number of faculty members presented papers in Workshops/ Seminars / Conferences conducted or recognized by professional agencies.

Details	Year					Total
	2015-16	2014-15	2013-14	2012-13	2011-12	
Papers Presented/publish in National & International Conferences & Journals	63	37	35	30	16	192

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

- On-duty leave exclusively for research work and vacation leave is given to the faculty member to carry out their research work.
- The faculty members are encouraged to undertake consultancy and research work.
- Financial support in the form of registration fees, traveling allowance is provided to the faculty members to participate and present research articles in international conferences and attend faculty development programmes in other institutions.
- The faculty members are encouraged to deliver talks/lectures in other institutions. On-duty leave is provided for the same.

2.4.5 Has the institution introduced evaluation of teachers by the students and external Peers? If yes, how is the evaluation used for improving the quality of the teaching-learning process?

Y**es**, evaluation of the teachers by the students is made through the feedback. Analysis of the feedback is conveyed to teachers for further improvement.

The student's feedback is taken twice in a semester. Central Academic Monitoring Committee (AMC), Principal, Head of the Departments take review of the evaluations done by the students. If certain shortfalls are found, such faculty is made aware of it.

Evaluation by the students: Feedback from the students about the faculty on different criteria is collected twice in a year. Anonymity of the students is strictly

maintained. Their feedback is scrutinized by the head of the institution and communicated to the respective faculty members through the concerned head of the department. For those faculty members, whose score is less in the student's feedback, counselling and guidance are given to improve the teaching methodology. Class committee meetings are also periodically conducted to get the feedback from the students and identify the ways to improve the teaching learning process.

2.5 Evaluation Process and Reforms

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

- Theory and Practical exams are conducted by the Controller of Examination of Sant Gadge Sant Gadge Baba Amravati University, Amravati, Camp road Amravati Maharashtra. As per Sant Gadge Baba Amravati University norms, the faculty members are deputed by Sant Gadge Baba Amravati University as external invigilators, external examiners for practical and project viva, University representatives and examiners for central valuation.

- Faculties are communicated about the evaluation process in the meeting conducted by the Head of the Institution.

- Principal and the Heads of the various disciplines make students familiar with Sant Gadge Baba Amravati University regulations and evaluation procedure during orientation programme.

- The Regulations, Curriculum and Syllabi are published in the institution website www.kgiet.ac.in as well as Sant Gadge Sant Gadge Baba Amravati University website, www.sgbau.ac.in.

- Syllabus is provided for all courses to the students in the commencement of every semester.

- Academic Calendar/ Academic Diary containing all academic schedules are provided to the students and faculty in the beginning of every semester.

- The complete evaluation procedure in the form of regulations of various programmes is discussed with all the students through Faculty Advisors and Counselors.

- Circulars related to university examinations and internal examinations are circulated to the students and faculty members.

- The End semester examination results will be published by Sant Gadge Sant Gadge Baba Amravati University, Amravati.

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

- For all courses, it is mandatory to maintain minimum 75% attendance by the students to appear for their end semester examinations.

- For all Undergraduate course, the continuous internal assessment carry 20 marks for theory and 25 marks for practical, for final year student 50 marks

for seminar and 75 marks for project while the end semester examination will carry 80 marks for theory and 25 marks for practical and 75 marks for project viva .

- For all master degree course, the continuous internal assessment carry 20 marks for theory and 25 marks for practical, for final year student 100 marks for seminar and 100 marks for project while the end semester examination will carry 80 marks for theory and 25 marks for practical and 200 marks for project viva .

- For all Undergraduate courses, the minimum pass mark for all courses is 40% **including internal assessment.** In the end semester examination the student must secure 40% mark for both the theory and practical examinations.

- For all master degree courses, the minimum pass mark for all courses is **50% excluding internal assessment**. In the end semester examination the student must secure 50% mark for both the theory and practical examinations.

- For theory courses two internal assessment tests are conducted every semester. Chance is given to student for improvement in test marks by conducting one improvement test on demand of student. The test marks are converted into marks as internal mark it is split as below

Table 2.11- Internal theory assessment followed by institute.

Unit test-I Marks (30) Converted into out of 10	Unit Test-II Marks (30) Converted into out of 10	Improve-ment Test Marks (30) Converted into out of 10	Assign-ments Marks (05) Due Credit is given to Timely submissi-on	Attendance Marks (05)		Total Marks out of 20
				% of Class Attendance	Marks	
				Class Attendance <75%	0	
				Class Attendance 75 to 80 %	1	
				Class Attendance 81 to 85 %	2	
				Class Attendance 86 to 90 %	3	
				Class Attendance 91to95 %	4	
				Class Attendance > 95 %	5	
Calculated Average of three out of 10 (A)			(B)	(C)		A+B+C

- Practical course is evaluated based on the conduct of experiments and the oral viva of the experiments of the students and awarded marks for experiments are converted into 25 marks as the internal assessment.

- Project work for UG programme allotted to a 5 student or a group of students not exceeding 8 students. A Coordinator is constituted for each branch of study. Seminar topic choice depends on student interest and guide selection given by coordinator. Seminar delivery schedule given by coordinator batch wise. Seminar marks based on depth of knowledge, understanding the topic,

presentation, report construction and question and answer. On this basis seminar marks allotted out of 50. Two Progress review are made during the semester by the coordinator. The student has to make presentation before the coordinator and judging panel on the progress of the project. The total marks obtained in the two reviews are converted into 75 marks based on innovation, construction, report preparation, presentation and oral examination.

- Project work for PG programme allotted to a student individually under separate guide allocation. The project work for PG Programme consists of Phase–I and Phase– II. The Phase–I is to be undertaken during III semester and Phase–II, which is a continuation of Phase–I is undertaken during IV semester.

- In case of student of PG Programme not completing Phase-I of project work successfully, the students can undertake Phase-I again in the subsequent semester. In such cases the student can enroll for Phase-II, only after successful completion of Phase-I.

- The Project work (Phase II in the case of PG) shall be pursued for a minimum of 16 weeks during the final semester.

Major Evaluation Reforms initiated by the Institution

- Students are assessed throughout the semester through tests, tutorials, assignments and laboratory classes.

- Course plan progress is reviewed periodically before every internal assessment test in the class meetings.

- Class tests are conducted to improve the academic performance of the students.

- Project guides are allotted based on the area of the interest of the students.

- Slow learners are identified based on their academic performance and remedial classes are conducted to improve their performance.

- Students are given opportunity to rectify their doubts during the contact hours of the faculty on all working days.

- The institution encourages students to undergo in-plant trainings, mini projects and visit industries and a brief record is made by evaluating the learning-outcome of the students from the trainings undergone.

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

- Time schedule for each course is allotted by framing time table.
- All test schedules are prepared and communicated to the students.
- Faculty is required to maintain a "Course File" which consists of attendance marked for each lecture/ practical/project work periods, lesson plan, teaching plan, summary of syllabus coverage, the portions covered during each period, internal assessment marks and class test marks are periodically monitored by the Principal and Head of the Department.
- Record of Attendance of the students and internal assessment test marks are maintained by class in-charge and cumulative week wise and month wise record is maintained by Head of Department.
- Attendance and the performance in internal assessment tests are intimated to parents through letters.
- Parents and teachers meetings are conducted to improve the academic performance of the students and also guide students on career choices.
- Remedial classes are conducted to the students who feel difficulty in learning. Separate log books are maintained and the classes are supervised by the Head of the Department and the Principal.
- Contact hours are used for students to have interaction with faculty members.
- Counseling hour helps student to get rid of their fear of learning, anxieties and positively improves the confident level of the students.
- Students are encouraged to take up their projects which meet the needs of industries. To make them aware of the needs of industries, the institution provides all types of standard journals which would give them ideas to do projects.
- The Principal meets students periodically and interacts with them about the effectiveness of teaching- learning process.
- The implementation of the evaluation reforms of the Institution, course files and log files are maintained for each course and the same is audited by the Principal periodically.

2.5.4 Provide details on the formative and summative assessment approaches adapted to measure student achievement. Cite a few examples which have positively impacted the system.

Formative Evaluation Process

- The achievement of learning outcome is assessed by formative evaluation process such as class tests, internal tests, tutorials, assignments, mini projects and project reviews.

- Technical quiz, Group discussion, open discussions with principal are conducted for evaluating the students.

- Understanding the needs of employers, students are trained in communication, technical and soft skills by conducting Guest lecture, awareness program, workshops, and interactions with expertise from industries.

Summative Evaluation Process

- For each theory course, two internal tests are conducted which are converted to 20 marks for computation of internal marks.

- The test papers are distributed for verification of the students in three days from the day of test.

- Performance of the student is intimated to the parents through parent's intimation letter.

- The performance of the students is analyzed and slow learners are identified and they are helped with remedial classes.

- The internal assessment for practical course is converted into 25 marks based on the experimentation and the record of the work.

- The internal assessment for project work is converted into 75 marks based on two presentations on the work done made by students before the review committee.

- Apart from academia, students are motivated to participate Co-curricular and extra-curricular activities. The students achieved awards and prizes.

Sport Activity

Cultural Activity

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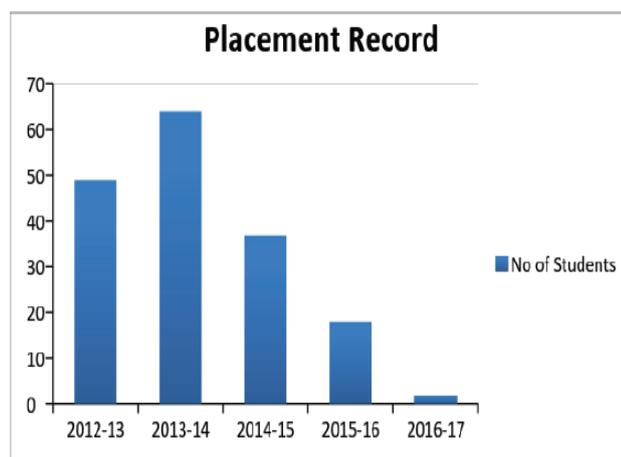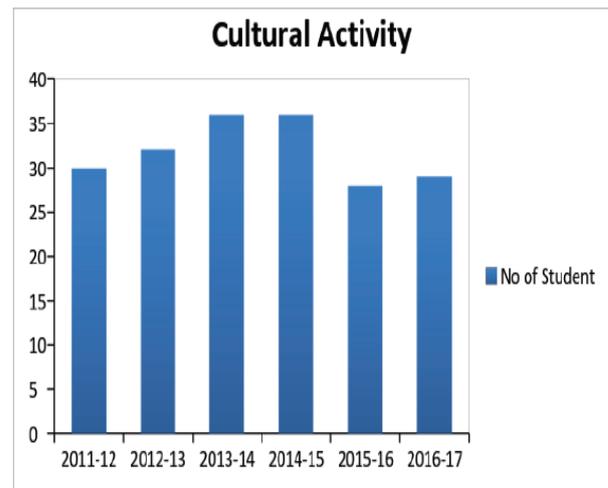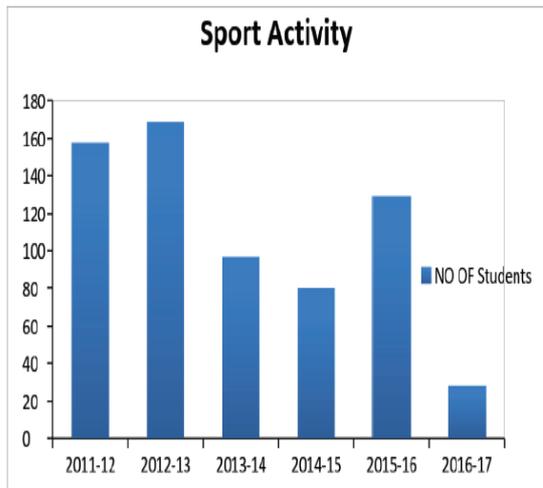
2.5.5 Detail on the significant improvements made in ensuring rigor and transparency in the internal assessment during the last four years and weightages assigned for the overall development of students (weightage for behavioral aspects, independent learning, communication skills etc.)

- There is a complete transparency in the internal assessments. The process of internal assessment, adopted as directed by the University is made familiar to all the students. The internal marks are calculated as per Sant Gadge Baba Amravati University norms.
- In case, if there is any grievance from the students, it is properly addressed. Absentees for internal tests are given opportunity to write re-test, if there is a valid reason with the approval of the Principal.
- Discipline committee comprises of all HODs and faculty advisors, thoroughly enquires about the behavioral issues of the students and corrective measures are taken immediately.

- Students are counseled on their behavioral issues by the counselors in counseling hours.
- Parents and teachers meeting is organized periodically for the overall development of the students.
- The students are encouraged to think and learn independently by involving in activities like solving puzzles, undertaking mini projects, participating in quiz competitions and participating in group discussions and also motivated to take seminars in class.
- Students are motivated to use Department Libraries and the Central Library to equip their knowledge which makes them to have deep understanding of any subject and think independently.
- The curriculum takes care of improving the communication skills by conducting communication Lab for all branches.
- The Training and Placement Cell organizes value added courses, personality development programmes to improve technical skills, soft skills, and independent learning and communication skills. Owing to the training provided by the institution, the placement record has appreciably improved.

2.5.6 What are the graduates attributes specified by the college/ affiliating university? How does the college ensure the attainment of these by the students?

Institution inculcates quality education, confidence in the students and inspires them to be competent engineers to suit the global environment.

Graduate attributes specified by the Institution

- Practical oriented knowledge in various fields.
- Able to design and conduct experiments, as well as to analyze their practical skills.
- Capability to design a system, component, or process to meet desired needs.
- Ability to function in multidisciplinary teams as a team player.
- Potential to identify, formulate and solve engineering problems.
- Understanding professional and ethical responsibility.
- Better comprehension in communication skills.
- Ability to understand the impact of engineering solutions in a global and societal context and engaging students in lifelong learning.
- Ability to use technical skills and modern engineering tools necessary for engineering practice and work competently in the modern industrial scenario and develop entrepreneurship and project management skills.

- The Institution concentrates more on developing and executing the graduate attributes of the students.

The following are the initiatives that the institution puts forth.

- The institution specifically conducts a number of value added courses and various skill enrichment programmes to achieve the graduate attributes.
- Students are sent to industries for gaining practical knowledge in their fields of study to achieve the desired attribute.
- Students are trained to be competent skilled professionals. Communication skills are one of the skills that a professional should possess and the Institution trains students in various aspects of soft skills and communication skills. A well-established Language Lab helps students to possess language skills.
- The Institution organizes various programmes related to curricular, co-curricular and extra-curricular activities which bring out the potentiality of the students in the areas where the students show their ability to find solutions in the context of global and societal concerns.

2.5.7 What are the mechanisms for redressal of grievances with reference to evaluation both at the college and University level?

The students can apply for revaluation following the procedures prescribed by the University.

Institution level

- Answer key for every course is prepared for evaluating answer scripts.
- After the evaluation, the answer scripts are verified by the Head of the Department.
- Evaluated answer scripts are circulated to the students and the marks are submitted to the Department within 3 days from the date of the respective test.
- Head of the department resolve the grievances addressed by the students with respect to evaluation.
- Based on the students test performance analysis, corrective actions are taken.
- Performances of the students are informed to their parents.
- Students who have failed in more than two subjects are counseled with their parents to improve the performance.
- Re-tests/ Improvement Test are conducted for the failed students for improvement.

University level

- Students can apply for revaluation of their semester examination answer paper in a theory course within two weeks from the declaration of results. Complete revaluation process is online and conducted by Sant Gadge Sant Gadge Baba Amravati university web portal i.e. www.sgbau.ac.in

- The students can also apply for the photocopy of their answer scripts and discuss with their respective course faculty.

- Students can apply for revaluation, if they are not satisfied with the first evaluation.

- If the answer script deserves more marks than the awarded marks in the first evaluation, the students can apply for review/revaluation university taking it in account carry the process of revaluation and declared result within a month.

- If the student is not satisfied with the revaluation mark, he/she can apply for the challenged revaluation.

- A student can apply for revaluation of answer scripts not exceeding five subjects at a time.

- Revaluation is not permitted for practical courses and project work.

2.6 Student Performance and Learning Outcomes

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

Yes. The institution has clearly stated the learning outcomes to the staff and the students.The institution has framed the Programme Educational Objectives and Programme Outcomes (Learning outcomes) for each of the programme offered in the institution. It is displayed in the institutional and department notice board. The head of the institution periodically convene a meeting of the faculty members department wise to communicate about the learning outcomes of the programmes offered in that department. The head of the department/faculty advisors communicate the learning outcomes to the students of each and every programmes offered in the department.

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

The institute monitors and communicates the progress and performance of the students by following ways –

- After the declaration of University examination results, the result analysis report is prepared by every department. This report is compared with the reports of previous years to monitor the progress of department and take corrective measures whenever necessary.
- Result analysis report is shared with the faculty members as well as to the students. The copies of analysis are also submitted to the Principal.
- Guardian Teacher (Mentor) keeps close watch and track on the progress and performance of the students. The progress in terms of attendance, test marks, parent contact details, curricular and extra-curricular activities, students' grievances (if any) is recorded in the mentor booklet provided with the faculty. The progress of each student is informed to the parents time to time. In case of severity, parents are called to meet the authorities in person.
- All departments in the institute regularly communicate the marks obtained in the internal examination to the students.

- It has been observed many times that the academic progress of students is hampered due to personal and other reasons. In such cases, mentor along with subject teacher and head of department plays a major role in counseling and resolving the students' personal problems. It is found that such student excels in academics at later stages.

- The departments also encourages the students to perform better by means of following measures - Felicitation of toppers in FE induction program at institute level - Felicitation of toppers in department association program - Best outgoing project and best outgoing students in BE farewell program
  - Felicitation of toppers in FE induction program at institute level
  - Felicitation of toppers in department association program
  - Best outgoing project and best outgoing students in BE farewell program

The Fig.2.2 (a & b) shows the average passing percentage of first, second, third and final year students of all the undergraduate programs for the last four years. The comparison of SE, TE and BE result shows that, due to direct second year admissions from diploma background, passing percentage of SE students is relatively less compared to TE and BE in all programs of the institute. For SE directly admitted students, efforts are taken by the faculty by conducting remedial classes, extra lectures, tutorials etc. For TE and BE students, passing percentage result is relatively good.

(a)   (b)
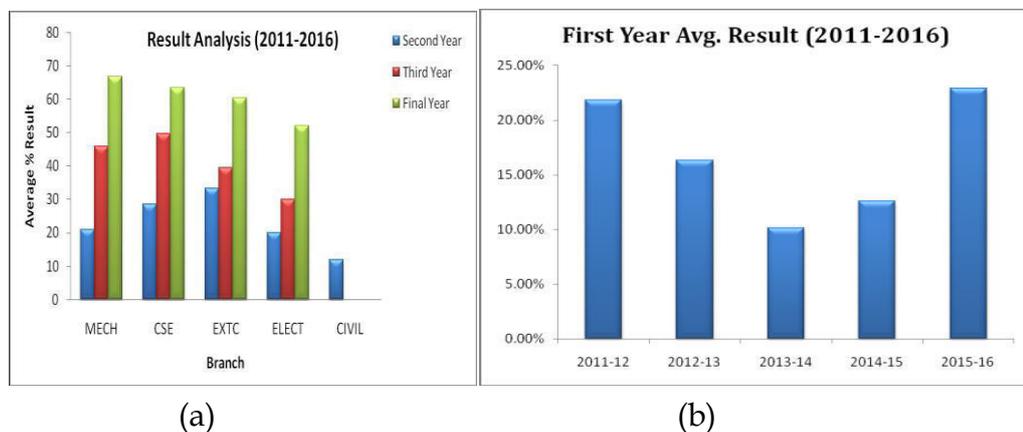
Fig. 2.2- Result analysis of a) branch wise and b) first year (Average Percentage)
2.6.3 How are the teaching, learning and assessment strategies of the institution structured to facilitate the achievement of the intended learning outcomes?
Teaching strategies:

- Teaching strategies start with the preparation of academic calendar in every department which is in line with the academic calendar given by the Sant Gadge Baba Amravati University.

- Allocation of the course modules to faculty at the start of semester
- Study of the course objectives and outcomes by the respective faculty
- Planning lecture delivery and its timely execution
- Students are provided with list of text and reference books and question banks
- Monthly review of lectures/ practical conducted and syllabus coverage
- Extra sessions are planned for the courses behind schedule
- Attendance monitoring during semester for effective dissemination of contents
- Guest lectures are arranged on advanced topics
- Quiz/ Debates/ Group discussions are held in class for better involvement of student
- Mock orals, practical and tutorial sessions are undertaken to increase the effectiveness of the course delivered.

Learning strategies: Various teaching strategies are adopted to promote active learning by participatory activities such as:
- Tutorials, Home Assignments
- Paper presentations and Poster competitions
- Industrial visits
- Seminars and Project work
- Workshops and Value Addition Programs (VAP) In addition to regular teaching and course coverage, learning material from various open resources like NPTEL-learning materials and videos, EDX courses, IITB spoken tutorials etc. is made available to the students. After completion of the program in final year, students are expected to get employment or go for higher studies.

QA-LR (Quantitative Aptitude and Logical Reasoning tests) practice sessions are given to the students. GATE/GRE guidance is provided for the students who wish to pursue higher studies. The Pie chart shown in Fig.2.6.3 depicts distribution of active teaching learning methods adopted by the departments. Lectures constitute about 60% of the total learning along with students' involvement in Practical sessions, Value addition programs, industry visits and seminars, projects, tutorials at about 40%.
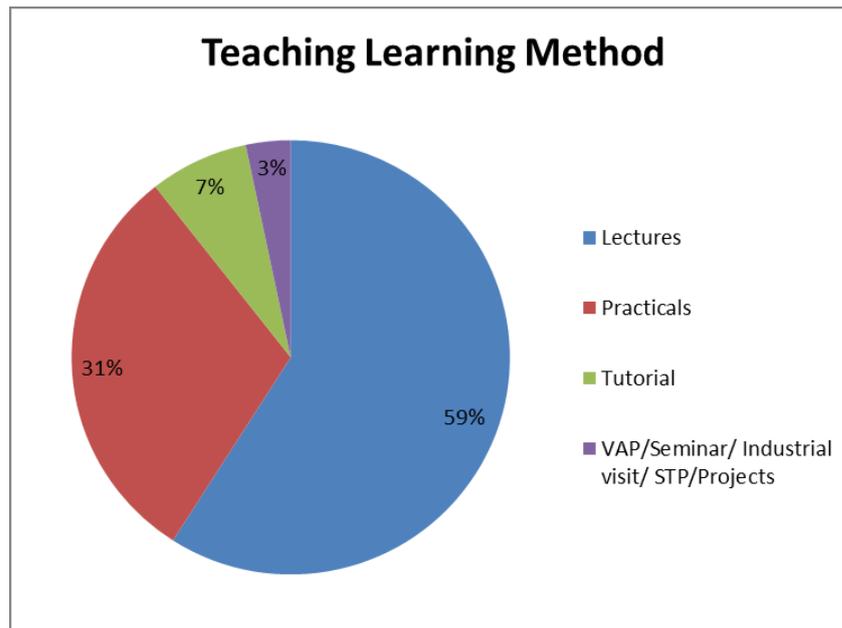
Fig 2.3 -Departmental Teaching Learning Methods Contribution.

Assessment Strategies: The institute adopts both direct and indirect assessment for evaluating the learning outcomes of the courses and program.

Direct Assessment:

- Internal and external examinations in theory and practical sessions.
- Online examinations.
- Oral Examinations, seminars, tutorials and assignments.
- Term work assessment

Indirect Assessment:

- Alumni feedback
- Exit students feedback
- Placement feedback
- Programme feedback

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

The institution continuously executes various measures and initiatives pertaining to students' training, placement, entrepreneurship, innovation, research aptitude and social awareness programs. The prominent of these are listed below –

- *Student Training Programme (STP)* - These programs are organized for the students in five parts. STP-I and II are for communication skills/soft skills

development; STP-III is designed to refine the fundamental core technical concepts needed in placements. STPIV deals with soft skills and STP-V is oriented towards advanced technologies and related hands-on through Value addition Programs. These activities make the students' more employable at the time of placement.

- *Executive training on Group Discussion, Group Task and Personal Interview* – The institute organizes a special drive for final year students. External professional agencies provide this training. It adds value to the students' employability.

- *AMCAT test series* - Every student of the institute undergoes AMCAT test series so as to upgrade and test the own aptitude. This test is a standard and well accepted by industries across the nation.

- *QALR* – Quantitative Aptitude and Logical Reasoning tests are conducted for the students. This test enables the students to prepare for most frequently asked aptitude and logical reasoning questions in various exams.

- *Prayas*- It is a social activity being executed in social context especially for up-liftment of rural area children by our students. □ *National Service Scheme (NSS)* - It is well proven and nationally accepted activity that is being carried out by the institute. It is well appreciated and supported by SGBA University.

- *KGIET Student Council (SSC)* - The aim of this council is to groom student in technical, social, cultural fronts.

The student registered to SSC participates in various activities organized by different SSC clubs during the semester.

- *Workshops / Trainings / Paper presentation / quiz activities* - These activities are organized by all the departments of the institute on regular basis to inculcate innovations and research culture.

- *Entrepreneurship Cell:* The institute has established a structured entrepreneurship cell at the institute. The cell conducts several workshops, seminars and motivational lectures from eminent entrepreneurs for the benefit of students on regular basis.

- *Employability Tests:* The Training and Placement cell of the institute conduct a series of employability tests, expert sessions to make the students well prepared to clear the aptitude tests conducted by different companies during placement.

- *Departmental newsletters:* All the departments of the institute have departmental newsletters where students are taking part actively in

collection, editing, coordinating and printing of newsletter. This activity enhances the students' written communication and coordination skills along with leadership qualities.

- *Technology Business Incubation Center (TBI):* The institute has recently undertaken TBI activity and created a brochure on domain wise expertise of the faculty. The domain expertise of the faculty and available infrastructure is projected in this brochure for the industrial collaborations.

- The Institute motivates and if needed sponsors students to participate in various research projects, project competitions and national and international conferences.

- The students are encouraged to take up sponsored projects from industry or projects in collaboration with institutes of national repute. The institute has signed several MoUs with industries and research institutes. In addition, the students are encouraged to participate in University level competitions.

- *Social Activities*: The students and staff of the institute are actively engaged in various social activities. Some of the social activities organized are career guidance to village students, task force cell against sexual harassment, health and hygiene awareness, dental checkup-medical camp, computer literacy, blood donation camp, environment awareness, Tree plantation etc. The institute has conducted various programmes like Remedial Lecture Series for FE students.

2.6.5 How does the institution collect and analyze data on student performance and learning outcomes and use it for planning and overcoming barriers of learning?

Every programme / department collects the feedback from all the stakeholders pertaining to students' performance and outcomes. These feedbacks are analyzed quantitatively as well as qualitatively. The gaps between the curriculum and technological need are found out.

- Faculty feedback is taken in every semester from students.
- Exit students feedback is taken from the outgoing students every year.
- The feedback from the alumni is taken during the Alumni meet.

Corrective Actions:

- Special attention is paid to lateral entry students.
- Remedial classes are conducted for subjects where percentage of failure is more.
- Mock orals are conducted.

- Students with difficulties in learning are counseled by respective subject teachers and teacher guardian.

2.6.6 How does the institution monitor and ensure the achievement of learning outcomes?

All the departments of the institute have the well-defined programme objectives and outcomes. These outcomes are analyzed based on the feedback taken from different stakeholders as mentioned earlier. The gaps between curriculum and technological need are found out. Every faculty member is made aware of the gaps and content beyond syllabus are included accordingly to bridge the gap. This ensures the achievement of outcomes of individual course as well as the resultant outcomes of programme and hence institution. To ensure the achievement of learning outcomes each department:

- Display of academic calendar on notice board at the beginning of semester
- Monitors of theory, tutorial and practical classes
- Display attendance at the end of every month and Organizes remedial classes
- Ensure assessment in internal test and discussion on model answers for the same
- Conducts tutorials and includes them in the time table
- Ensures 100% syllabus completion by the end of each semester.

2.6.7. Does the institution and individual teachers use assessment/evaluation outcomes as an indicator for evaluating student performance, achievement of learning objectives and planning?
If 'yes' provide details on the process and cite a few examples Partly Yes,

The teachers use assessment and evaluation outcomes primarily for improving the teaching-learning process. However, liberty is given to the teachers to correlate the assessment/evaluation outcomes to the students' performance.

Teachers use evaluation outcome as an indicator of students' performance and achievement of learning objectives. Extra lectures and remedial classes are planned if the performance is not up to the mark. The Fig.2.6.7 shows the learning objectives and planning measures.
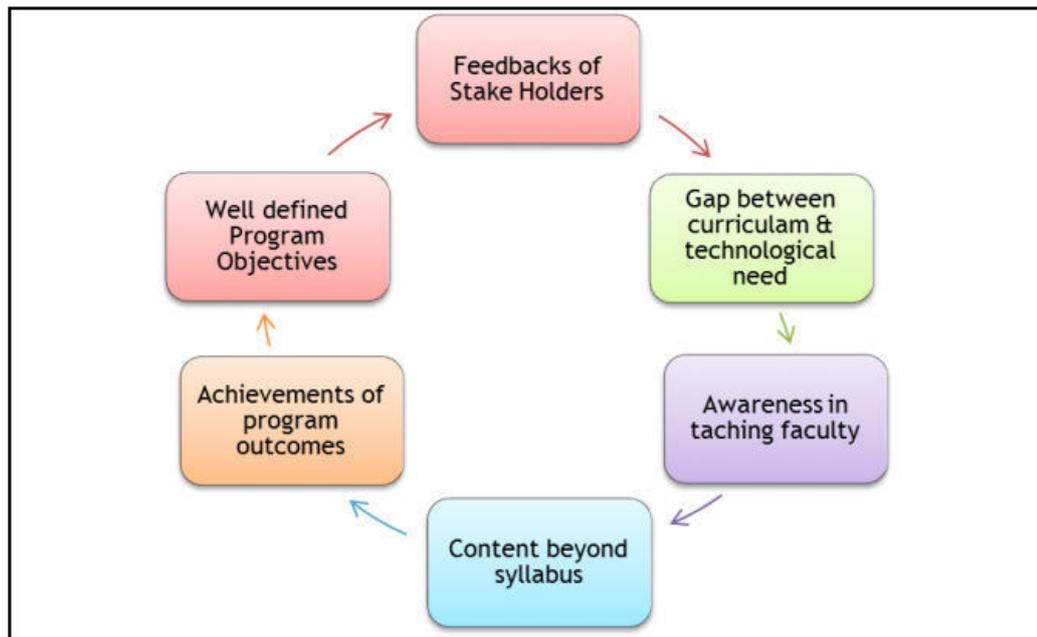
Fig 2.4 - Learning Objectives and planning Measures

The teacher uses following factors to check fulfillment of objectives:
- Monthly attendance of student for theory as well as practical sessions
- Online mock exam results and Unit test marks help in knowing the performance of the students and corrective action is taken before the students appear for the SGBAU examination
- Discussion on ideal/model answers and submission of assignments
- Considering the performance of students, teachers modify the teaching learning process to achieve the Programme Outcomes

2.6.8. Any other relevant information regarding Teaching-Learning and Evaluation which the college would like to include.

In addition to regular teaching, college gives emphasis on development of employability skills. STES has developed a special students training program (STP). Every semester there is one STP program where training for soft skills, core engineering knowledge, practice sessions for GD/PI, QALR practice sessions and Value Added Program for final year students are conducted.

CRITERION III : RESEARCH, CONSULTANCY AND EXTENSION

3.1 Promotion of Research

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

The institution is in the process of submitting applications for the recognition of research centers in the departments of Mechanical Engineering.

Department	Name of the Supervisor
Mechanical Engineering	Dr. S.M. Kherde

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

Yes, the Institution has research committee to promote the research and development activities inside the campus. The activities of Research committee comprise experts from various disciplines and overseen by Head of the Institution.
It has expert members from internal members of the institution. The Research committee activities are given below:

- The committee frequently conducts the meeting in order to facilitate the research proposals submitted by the faculty and students.

- Based on the presentation of the researcher, social relevancy of the project, feasibility for completion and budget of the proposals, the research committee recommends the research.

- The recommended projects are submitted to the Government funding agencies/the management for generating funds. Research committee also encourages and recommends the teaching faculties of the Institution for carrying out their research programme.

- Further, the Doctoral Committee formed by the affiliated university monitors

the progress of the research works of research scholars twice in a year.

Table No. 3.1: Faculty wise Area of specialization

Sr.No.	Name of faculty	Area of specialization
1	Dr.S.M.Kherde	Industrial Engineering
2	Prof.A.N.Kausal	Electrical Engineering
3	Prof.V.P.Nikam	Computer Science & Engineering
4	Prof.S.T.Warghat	Mechanical Engineering
5	Prof.D.B.Pawar	CAD-CAM
6	Dr.P.M.Pete	Library Science

Summary of the recommendations made by the research committee is as follows.

- Ph.D. holders should involve in research activities consistently.
- All the departments should take necessary steps to obtain "research center recognition" from Sant Gadge Baba Amravati University,Amravati Ph.D. holders should write proposals in their area of expertise and submit the same to different funding/research bodies to get technical as well as financial sponsorships.
- Heads of the departments should encourage and motivate faculty members to prepare innovative proposals and submit to various funding agencies.
- Papers published by the faculty and students shall be compiled as volumes and the same shall be made available in the library for the benefit of other faculty members/research scholars and students.
- Members of the research committee as well as the faculty members involving in research activities are encouraged to publish their research findings in peer reviewed journals having impact factors.
- Faculty members are encouraged to pursue Ph.D. programme. No-objection certificate shall be issued to all faculty members interested in pursuing Ph.D. programme at any recognized universities.
- Ph.D. holders who have not obtained supervisor recognition are requested to apply for the same.
- Faculty members may be provided with on-duty leave for presenting their project proposals to various funding agencies.
- Every department should constitute research clusters and the activities of the same shall be monitored by the member secretary of the research committee through the respective head of the departments.

- Registration fees for patent applications would be reimbursed by the management to the concerned faculty member/students.

The projects which are recommended by the research committee for the last four years are listed below along with the sanctioned amount by the funding agencies.

Table No. 3.2 :Research project & funding agency

Sr. No.	Name of department	Title of the programme	Sanctioned Amount	Agency
1	Mechanical Engineering	SAE BAHA off road racing championship	0.3 Lac	SBI Daryapur
2		SUPRA on road racing championship	0.3 Lac	SBI Daryapur
3		Hybrid GOCART championship	0.25 Lac	CAD TECH training institute Amravati

Impact of the recommendations :

Faculty members are actively involved in preparing and submitting research proposals to various funding bodies. Significant numbers of research proposals have been submitted to funding agencies. Research clusters have been constituted in all the departments. A limited number of research papers have been published in journals and conferences. Papers published by the faculty and students compiled copy of the same has been made available in the central library of the institute. Steps are being taken to file patents.

Summary of research proposals submitted to funding agencies:

Table No. 3.3 : Research proposals for funding agency

Department	Name of Proposals	Funding agencies to which proposals are submitted
Mechanical	Clean energy part	Department of science and technology, New Delhi
	Agriculture robotics for spraying and dusting	Department of science and technology, New Delhi
	Design and fabrication of flywheel based human operated home appliances	Department of science and technology New Delhi
	Development of eco-friendly bicycle	Department of science and technology New Delhi
	Design and construction of power theft identification using micro controller	Department of science and technology, New Delhi
	Bank locker security system based on RFID and GSM technology	Department of science and technology, New Delhi
	GSM based irrigation system using PIC micro controller	Department of science and technology, New Delhi

Summary of research paper publications

Table No. 3.4 : Research paper publications

Department	Number of papers published in journals and conferences	Number of faculty involved
Mechanical Engineering	71	10
Computer Science and Engineering	52	19
Electronics & Telecommunication Engineering	22	12
Electrical Engineering	30	8
Civil Engineering	35	4
Information Technology Engineering	11	3
Science and Humanities	46	9

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

- **Autonomy to principal investigator**

The principal investigator is provided with freedom and encouragement to choose research topics and to hire services.

- **Timely availability or release of resources**

The requisitions by principal investigators are processed with priority so that all the necessary resources are made available in time.

- **Adequate infrastructure and human resources**

There is sufficient availability of software, hardware and other supporting equipment and human resource for any assistance at institute. All these resources are made available to principal investigators. To carry out the research activities including sponsored projects, infrastructure and laboratories can be utilized beyond office hours.

- **Time-off, reduced teaching load, special leave and others to teachers**

Faculty members who have undertaken various research projects are provided with a comfortable atmosphere, where project could be completed. The faculty members are motivated to participate and present their research findings in workshops and conferences and to network with

their peers. The faculty members have study leave, on-duty leave, special leave and special permissions for their research work.

- **Support in terms of technology and information needs**

Institute knows the people and resources to guide principal investigators. Furthermore, Institute also identifies relevant equipment, tools and resources on campus. Digital library facility is made available to all the faculty and students in which they can browse academic journals. High speed Internet facility is available. Library has been equipped with latest books for academic and technologies.

- **Facilitate timely auditing and submission of utilization certificate to the funding authorities**

The institute has administrative department to help principal investigator in preparing and submitting the audited reports and Utilization certificates in time to the funding agency.

- **Any other**

R&D meetings are conducted regularly to discuss about the project proposals, seminars, conferences and workshops.

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

- The students are motivated and facilitated to go with internships in the industries. During the internships, students gain exposure to the real time environment. They also learn and update the skill sets expected by the industry.
- Execution of research projects and assigning UG/PG projects to individuals or group of students on topics of their interested areas to infuse critical thinking and scientific temper.
- The institution conducts a national level technical symposium named "Prayukti", which attracts potential students from across the country who shares their ideas.

- The institution organized national conference "Palm leaf to paperless" in the year 2012 and "National Conference on Emerging Research Trends in Engineering and Technology-2015"so that faculty members are encouraged to publish their research papers or articles in reputed journals and conferences.

The faculty members and the students are given cash awards and appreciation certificates for their research publications.

- Guest lectures and special talks are periodically organized with eminent personalities.

- Library subscribes for e-journals periodicals and magazines. Also, Wi-Fi facility is available throughout the campus.

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

Faculty members are actively guiding students for their project work, which is a part of their curriculum. Faculty members are also actively involved in research work for completing their Ph.D. degree. Their research work has resulted in the publication of papers in IJERA and IJETT journals and conferences.

Table No. 3. 5 : Reaseach Project of student with guide

Depart ment	Title of the project	Faculty supervisor	Name of the students	Collabor ative agency
Mechani cal Enginee ring	Development of testing of mechanical cleaning device	Dr. S. M. Kherde	S. N. Wathodkar, R. A. Kale, M. A. Khodke, Ku. S. S. Kukde, Y. S. Idhole	In-house Agency
	Design and fabrication of manually operated low cost briquette making machine	Prof. S. S. Ingole	S. G. Gulhane, S. R. Ramtake, Yogesh Deshmukh, S. N. Gajbhiye, V. V. Mane	In-house Agency
	Design and fabrication of agricultural	Prof. S. T. Warghat	Ku. N. R. Shegokar, Ku. P. A. Jaiswal, P. N. Charthal, S. S. Khade, S.	In-house Agency

		S. Mendhe	
Geothermal cooling system	Prof. P. J. Bhadange	A. M. Tayde, A. A. Ajane, A. A. Khapakar, A. S. Mahalle, Ku. S. R. Joshi, T. K. Wasnik	In-house Agency
Fuel injection testing machine	Prof. D. B. Pawar	A. V. Zagde, A. H. Khan, A. A. Wankhade, A. B. Rindhe, M. G. Zod	In-house Agency
Automatic rain operated wiper system	Prof. M. M. Patil	S. S. Pude, U. C. Rajput, P. K. Mali, R. C. Ghadge, Swapnil Pujari	In-house Agency
Study and fabrication of solar chimney	Prof A. S. Bombatkar	N. R. Manekar, T. M. Kapile, Y. D. Ghode, R. S. Jamodkar, K. K. Balpande, B. D. Bhonde	In-house Agency
Fabrication of hybrid agriculture sprayer	Prof. Abdul Nazim	V. R. Thakre, S. P. Thakre, P. R. Pimpalte, S. H. Pendhe, Yogesh Kale, S. V. Shrikundwar	In-house Agency
Robot used in military and rescue operation	Prof. T. V. Deshmukh	S. U. Javeri, D. P. Pandhare, S. S. Navrange, R. S. Shingre, S. U. Padole, S. V. Chinchole	In-house Agency
Modeling and fabrication of multi-operational wood working machine	Prof S. V. Bhunte	R. B. Tale, P. S. Verma, P. A. Malpe, P. A. Malpe, N. D. Chawande, M. D. Khaniwale, S. A. Jane	In-house Agency
Design and development of manually operated floor cleaning machine	Prof. M. J. Watane	Bhushan Mangulkar, P. A. Fule, P. M. Kakade, V. K. Raipure, S. G. Ramgirwar	In-house Agency
Adaptive headlamps and wings mirror	Prof. D. G. Chavan	A. T. Chavan, G. T. Patil, I. M. Patil, S. S. Patil, R. P. Waghmode, V. D. Patil	In-house Agency
Designing of cam for pattern	Prof. D. B. Pawar	S. M. Charthal, P. D. Thorat, A. A. Shirbhate,	In-house Agency

		R. S. Sayare, Y. C. Wankhade	
Design and Fabrication of Adaptive suspension system and four wheel drive vehicle	Dr.S.M.Kherde	Adhau Roshan Sureshrao, Aghao Prashant Sukhdeo, Andhale Ganesh Madhukar, Aware Akshay Dnyaneshwar, Aware Harshwardhan Bhaiyyasaheb, Babre Pratiksha Rangrao	In-house Agency
Eco-friendly mechanically operated multipurpose spray pump	Prof. S.S. Ingole	Balki Dhananjay Bapurao, Belgamwar Atul Nandkumar, Bhagat Ujwala Pandurang, Bharsakale Sachin Jagannath, Bombale Kishorkumar Shamrao, Chalurkar Pravin Shankar	In-house Agency
Fabrication of Vermicompost separator	Prof. S.S. Ingole	Chaudhary Aniruddha Bhashkarrao,, Chavan Mahesh Ranganath, Dangore Pankaj Ravindra, Deshbhratar Suraj Rameshrao, Deshmukh Sudhanshu Sukhdevrao, Dharmale Akshay Rameshrao	In-house Agency
Design and Delopememt of Automatic Pipe Cutting	Prof.S.T.Warghat	Dudhe Sanjog Sukhdeorao, Fokate Vipul Shankarrao, Gadling Amol Giridhar, Gaikwad Aman Pradip, Gajbhiye Nilesh Bhimrao, Gedam Prajwal Vilasrao	In-house Agency
Design and Delopememt of Hydraulic Bending	Prof.S.T.Warghat	Ghongade Amitabh Shalik, Ghorapade Yogesh Vilas, Gonge Arti Sudhakar, Gulhane	In-house Agency

	Machine		Akshay Deepakrao, Gulhane Satish Dnyaneshwarrao, Hingmire Atul Dattatray	
	Experimental Investigation of flow losses through different pipe fitting	Prof. P. J. Bhadange	Ingole Anup Vitthalrao, Janbandhu Atul Uttamrao, Kadukar Hematai Pralhadrao, Kadukar Sunil Ganeshrao, Kakde Purushottam Moreshwarrao, Kalbande Vivek Gajanan	In-house Agency
	Cotton seed swoing machine	Prof. M. M. Patil	Kanhed Kapil Kishor, Kedar Sagar Devidasrao, Khairkar Anup Deepak, Khairkar Shantanu Sudhakarrao, Khajone Sachin Shankarrao, Khalelkar Rupesh Ramdasrao	In-house Agency
	Design and fabrication of automatis pneumatic Can crusher	Prof.M.M.Patil	Khandare Ashwini Bhaskarrao, Khandekar Shailesh Ganeshrao, Khobragade Sachin, Kolhe Swapnil Laxmikant, Khedkar Amar Rajendra, Kothare Charandas Shravan	In-house Agency
	Design and Development of Manipulator for Pick and Place Operation	Prof. D. B.Pawar	Landge Abhijit Kishor, Lawhale Akshay Prakashrao, Malik Rahul Rajendra, Mohd Arshad Mohd Akhtar, Mohd. Mohsin Mohd Saleem, Motinagare Sumedh Devidas	In-house Agency
	Design and Development of Gripper for	Prof. D. B.Pawar	Palaskar Ashish Dhannu, Patel Saurabh Ravish, Pathare Anup	In-house Agency

3DOF manipulator		Dnyaneshwar, Patil Vijay Shrikant, Pokale Chetan Sureshrao, Pophalkar Gopal Vishwambhar	
Experimental Investigation on SI Engine the Magnetic Fuel Conditioner	Prof. A. S. Bombatkar	Raut Dipak Jagannath, Raut Deepak Madhukar, Raut Jitesh Ramlal, Sahastrabuddhe Liladhar Suryakant, Sawale Karuna Madhukarrao, Shahare Amit Raju	In-house Agency
Design and fabrication of Hovercraft	Prof. S. V. Bhunte	Sheikh Talib Sheikh Akil, Shingane Anil Santosh, Singanjude Anil Vilasrao, Solanke Sangam Vinayakrao, Sonparate Vaibhav Sudhir, Surve Pravin Atmaram	Inhouse Agency
Design and Development of Motorized Screw Jack	Prof. M. J. Watane	Takey Sachin Shalikrao, Talokar Kalpesh Rajendra, Tayade Vanshraj Lalchand, Tawade Pranay, Tikkas Tushar Manoharrao, Wankhade Ajay Ashok	Inhouse Agency
Three Directional Pneumatic Trailor	Prof. M. P. Bijwe	Warkari Shrikant Suresh, Yadao Avinash Ramlal, Yadao Pratik Balasaheb, Yawale Nikhil Gulabrao, Yawale Parag Nandkishor, Yeul Prashant Vinayakrao, Zod Rahul Shriramji	Inhouse Agency
Analysis of Industrial Throughput by Quality Control Perspective: A case Study at Jadhao Icon,	Prof. Dr. S. M. Kherde	Akshay A.Wankhade, Akash K. zanjad, Akash M. Marotkar, Akshay D. Holey, Sumit R. Choudhary, Vicky S. Dahikar	Inhouse Agency

Amravati			
Study of Various Dust Suppression system In Power Plant	Prof. S. T. Warghat	Ku.Bheshja N Meshram, Ku. Pranita V Charhate, Ku. Yojna G Wankhade, Ku. Sharvari Puri, Ku. Pranali Utkhede, Ankush Kurhekar, Vaibhav Rawale	Inhouse Agency
Design and Fabrication of Fixture for Drilling Holes on Circular Periphery	Prof. D. B. Pawar	Omprakash N Wadekar, Ketan Ashok Zade, Satyajit A. Deshmukh, Valay V. Nagarmote, Pravin H Phase, Ravi S. Kakad	In-house Agency
Analysis of Electrostatic Precipitator	Prof. M. M. Patil	Rohit M. Mishra, Pritam P Yawale, Swapnil B. bhatkar, Rahul Kumar, Rahul K. Pandey, Anandkumar C. Patel	In-house Agency
LPG as Refrigerant	Prof. A. S. Bombatkar	Dipak B Khade, Simantak B. Wankhede, Manoj B KauthKar, Vishal Y.Nemade, Vinay Niswade, Pratik Meshram	In-house Agency
Design and fabrication of four rotor quadcopter	Prof. S. T. Warghat	Bhushan b Naik, Praful d Dewalkar, Rahul S. Gore, Avinash B Gawai, Mahesh P Jaware, Ankush Kurhekar, Umesh G. Patil	In-house Agency
A Case Study on Analysis of Fire Fighting System At Ratan India Power Plant	Prof. M. M. Patil	Vijay Joge, Shyam Wankhede, SachinSonar, Amol Advikar, Abhijit Petle, Manish Bhuyar	Inhouse Agency
Design and fabrication of Ground Nut	Prof. P. J. Bhadange	Amol S.Gawande, Hukumchand S Charde, Sushil .P.Gawande, Amol	Inhouse Agency

	Pod Seperator		D. Ghatole, Sumit J. Warghat, Abhijit K. Dabre	
Mechanical	Nonconventional Energy Power Vehicle	Prof. S. V. Bhunte	Aman Singh, Nitesh a Gangasagar, Umesh Sinkar, Subodh kumar, Sangharsh S. Ambhore, Prashant s Kirte	Inhouse Agency
	Desgn and Development of Remote operated Forklift	Prof. M. J. Watane	Prajwal S Raut, Abhishek R. Kadam, Dhananjay P. Pokale, Sagar P. Agarkar, Kaustubh S Thakare, Piyush S Gulhane	Inhouse Agency
	Internal Pipe Inspection Robot	Prof. M. P. Bijwe	Akshay D.Wankhade, Pravin D Kolhe, Mangesh V Kamble, Ankit R Kanojia, Sanjay Chaurawar, Swapnil V. Yerne	Inhouse Agency
	Design and Devolopment of Industrial Robot for Light Weighted Material	Prof. L. R. Mahore	Minar k Khobragade, Santosh P.Pawar, Pawan N Deotale, Rajkumar D. Gawai, Jitesh K Rathod, Trikal Jaiswal	Inhouse Agency
	Development of hybrid Vehicle	Prof. D. B. Pawar	Harshal Durge, Swapnil Gurjar, Shashikant Mule, Vikrant Ambadkar, Swapnil Ital, Manish Nichat	Inhouse Agency
	To study and Fabrication of Solar Steel	Prof. A. S. Bombatkar	Prayag Kapghate, Dilipkumar Ram, Gajanan Manmode, Mohan Isal, Pratik Rode, Nikhil Kharode	Inhouse Agency
Computer Science Engineering	Meta search engine	Prof. D. J. Manowar	Dipali patil, Rohan lanjewar	Inhouse Agency
	Web Analytics	Prof. A. P.Date	Amruta Kale , Sharayu Jagtap	Inhouse Agency
	Online notice	Prof. A. A.	Roshan Hadole ,Saurav	Inhouse

	board	Chinchmalatpure	Lokhande	Agency
	Security and Privacy enhancing multi cloud	Prof.V. N. Dhage	Priyanka Darokar ,Pranali Dahake	Inhouse Agency
	Product aspect ranking & its applications.	Prof.N.R.Borkar	Anupama Girnale ,Priti Shelke	Inhouse Agency
	Shadow detection and removal in single image using paired regions	Prof. V. P. Nikam	Ms. Hrituja Dilip Gujar	Inhouse Agency
	SecurityCloud Storage using Cryptographic Services as Third Party Auditor	Prof. N. R. Borkar	Ms. Poonam Mukund Umbarkar	Inhouse Agency
Electronics Engineering	Biometric Attendance	Prof. N.V.Raut	Komal Dhage, Mayuri Bhamburkar, Komal Mahalle, Ashwini Nalkande	Inhouse Agency
	Alive Human Detection Under Disatar Condition	Prof. K.A.Wankhade	Mayur Zaparde, Shyam Dod, Hemant Burkhande, Niraj Padole	Inhouse Agency
	Design and Development of Human Heath Monitoring System	Prof. M.V.Benodkar	Gunjan Tambakhe, Ashish Bhure, Swapnil Aswar, Gokul Yeul	Inhouse Agency
	Robust and effective note exchanger systme with a fake note detector	Prof. N.V.Raut	Archana Kolhe, Priti Umak, Akshay Gulhane, Dipak Mahsal	Inhouse Agency

Soil Moisturizing and Temperature Control Using Microcontroller	Prof. K.A.Wankhade	Ankush Ajmire, Vaibhav Lokhande, Akash Thorat, Akshay Navrange	Inhouse Agency
Automatic Inteligance Power Saving System	Prof. A.W.Kale	Vaishanavi Sonule, Priyanka Ingale, Shrutika Pusadkar, Rani Gawande	Inhouse Agency
Automatic Street Light System for Energy Efficiency Based on Micocontroller	Prof. M.V.Benodkar	Abhijit Watane, Kunal Chaudharkar, Sneha Ale, Shradha Bagale	Inhouse Agency
Hand Gesture Recognition By Using PIC Microcontroller	Prof. S.R.Gade	Darshana Tayade, Diksha Umale, Komal Khalokar, Krutadnya Thorat	Inhouse Agency
Remot Substation Monitoring SystemThrough MATLAB and RF Wireless Communicatio n	Prof. K.A.Wankhade	Pratiksha Sadanshiv, Sushma Jambhulkar, Priyanka Aghade, Shital Tayde	Inhouse Agency
WI-FI Embeded Web CAM	Prof. M. V. Benodkar	Vaibhav Tayde, Rizwan Ali, Viraj Yeole, Nitin Pund	Inhouse Agency
Density Based Trafic Controll System	Prof. A.W. Kale	Subodh Yeole, Ankit Adgube, Nikhil Kokate, Harshal Mule	Inhouse Agency
Instant Print Portable Biomedical Instrument for BP and Heart	Prof. K.A.Wankhade	Amol Dahake, Anup Deshmukh, Ashsih Lute, Nikhil Nikam	Inhouse Agency

Beat Monitering			
Fabrication of Automatioc Solar Cell Phone Charger with a Pay System	Prof. K. A. Wankhade	Neha Raut, Roshani Piaghan, Nikita Nhuyar, Vishakha Nitnavare	Inhouse Agency
Ethernate Interface for Automation	Prof. S. R. Gade	Vishal Mohod, Aditi Achalerkar, Priyanka Rajnekar, Atul Wankhade	Inhouse Agency
Voice Handaled wheel chair for Physically Disabled Person	Prof. K.A.Wankhade	Dipali Bhaltilak, Monika Pawar, Pooja Kale, Pooja Meshram	Inhouse Agency
Design and Implimentation of Automatic Power Svaing Through Video Processing	Prof. M.V.Benodkar	Rupali Gawande, Sujata Shende, Aparna Thakare, Minal Bhagat	Inhouse Agency
Digital Notice Board Using GSM and PC Connect	Prof. A.W.Kale	Vicky Nichat, Anil Dhotre, Akash Katode, Sumit Wanklhade	Inhouse Agency
Speed Synchronization Of Multiple motor Using PIC	Prof. S.R.Gade	Tilakraj Chopade, Sumit Wanklhade, Swapnil Sitre, Sumit Chaukhande	Inhouse Agency
Liquid Dispensing on Conveyor Belt Using IR Sensor	Prof. M.V.Benodkar	Milind Chikhale, Nupur Gaidhane, Roshan Apale	Inhouse Agency
War field Spying Robot with a noght vision camera	Prof. N.V.Raut	Sagar Kharode, Mangesh Gahukar, Nikhil Khobragade, Monish Sahare	Inhouse Agency
Voice Controlled	Prof. N.V.Raut	Rasika Chore, Pranita Maliye, Kirti	Inhouse Agency

	Robotic Vehical With a Speech Recognition		Raghuvanshi, Ratndeep Bharati	
Electrical Engineering	Transmission Line fault anaylysis and location detection using GSM	Prof. J. D. Ghate	Akshay K Pande Chinmay A Chaware Shyam R Chaudhari Rushikesh Y Chandurkar	Inhouse Agency
	Implimentation of protection system for induction motor	Prof.A.N.Kausal	Neha R Joshi Prachika B Gedam Sayali R Baghe Sapna R Kojge Tejash j Arbat	Inhouse Agency
Electrical Engineering	Four Quadrant operation of DC motors	Prof. Pankaj Kumar	Mangesh N Nikhar Sagar D Jalamkar Shradha P Mohad	Inhouse Agency
	Case study of 33/11kV Substation	Prof.A.N.Kausal	Arun Kumar Singh Samiksha S Joshi Kajal R Tipre Arati V Pandit	MSEB Amravati
	Power generation by using conventional resources	Prof. N. A. Bodkhe	Vishal R Chauvan Sandip R Lahawat Shivanand G Metkar Kaustubh R Sonar	Inhouse Agency
	Auto sensing solar switches by using time delay and light sensor	Prof. J. D. Ghate	Abhilash M Tawalare Ankita S Khandait Punam N Dhote Shumedh B Nakhale Shital S Kamale	Inhouse Agency
	Solar operated car	Prof. A. G. Thokal	Vaibhaw Bule Akshay S Ingole Chetan A Nakade Amol R Pakhale	Inhouse Agency
	Priority load management	Prof. R.R. Deotare	Vinit H Dahate Tathagat M Sakhare Puja A Jogi Rutuja A Thakare	Inhouse Agency
	Android based	Prof. S. A.	Rushabh R Tathod	Inhouse

	bluetooth smart phone automation	Nandeshwar	Kiran p Gaupale Ritu B Gillewar Shilpa P Gupta	Agency
Information Technology Engineering	Image Steganography Embedding Audio Signal Into Digital Images	Prof. V.M.Gulhane	Sneha Thakare Sheetal Manware Mayuri Raut Rupali Kokate	Inhouse Agency
	E-Locker	Prof. S.M.Wange	Sumit Dhobale Akshay Mohod Anup Akhare Sanket Shirbhate	Inhouse Agency
	Digital Watermaking on Image Using Scale Invariant Infromation	Prof. S.S.Shirbhate	Sumit Shinde Shrikant Rathod Dhanashree Mahurkar Madhuri Gase	Inhouse Agency
	Health Care Networking	Prof. V.M.Gulhane	Aashu Raut Roshani Sontakke Reshma Bansod Rahul Nimje	Inhouse Agency
	Towards Secure and Dependable Storage Services on Cloud Computing	Prof. S.S. Sagane	Vaibhav Kharat Pavan Hagone Rajesh Watane Salman Khan	Inhouse Agency
	M-Health System In Wireless Sensor Network Environment	Prof. S.M.Wange	Ganesh Khedkar Ajinkya Ranjanikar Pallavi Nimsadkar Namrata Botke	Inhouse Agency
	Selfish Routing In Internet Like Environment	Prof. C.S.Deshmukh	Amol Lende Rukishesh Thosar Amit Mule Vishal Wankhade	Inhouse Agency
	Security Tracking and	Prof. V.M.Gulhane	Ajit Ramteke Dinesh Panse	Inhouse Agency

Notification System For Multi Tenant Cloud Application		Pavan Saulakhe Vijay Nage	
Handwritten Signature Verification and Identification Using ANN	Prof. S.S.Shirbhate	Syed Umair Ahmad Abudarda Khan Mahesh P. Warale Sushil Harne	Inhouse Agency
Corruption Control Through Budget Maintenance	Prof. S.S.Shirbhate	Anirudhha Bardekar Dnyaneshwar Gawande Poonam Mahalle Sneha Garde Shoeb Ul Husain	Inhouse Agency
Authentication Using Colour Images	Prof. S.S.Shirbhate	Tushar Kade Sneha Shelke Abhilash Tikhile Bagesh Deshmukh	Inhouse Agency
Mobile Tracker-An Android Anti Theft Application	Prof. V.M.Gulhane	Ku. Sharayu Borkar Ku. Anuradha Hagone Pawankumar Akotkar	Inhouse Agency
Enabling Public Auditability and Data Dynamics for Storage Security in Cloud Computing	Prof. T.N.Ghorsad	Ku. Sharayu Borkar Ku. Anuradha Hagone Pawankumar Akotkar	Inhouse Agency
Privacy Protection Based Access Control Scheme in Cloud Based Servies	Prof. T.N.Ghorsad	Akash Gulhane 2.Suraj Yeul Saleemuddin Aleemuddin	Inhouse Agency
Design and Implementation of Transaction	Prof. C.S.Deshmukh	Naved Ali Ankush Belsare Suraj Hande	Inhouse Agency

	Gatway Server for E-Commerce Payment Sytem		Swapnil Palsapure	

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

The institution has the regular practice of organizing workshops/ training programmes/sensitization programmes with aim on capacity building in terms of research and imbibing research culture among the staff and students. Being a young institution, faculty and students are inspired and encouraged supported to attend such programmes organized anywhere.

Table No. 3.6 : Details of Programme/Workshop

Year	Title of the programme	Details of resource person	Department
2015	National Conference on Emerging Trends in Engineering and Technology - 2015	Dr. R.S. Sapkal (Director of BCUD), Dr. N. S. Pohokar (Session Chair) (PRMITR, Badnera) Dr. N. P. Sinkar(Session Chair) (Govt. Poly. Amt) Dr. Swati Ambadkar (Session Chair) (GCOE, Amt.) Prof. Ajay Khambre (HVPM's, COET, Amt) Prof. Amit Mohod (PRMCEAM, Amt) Dr. A. P.Thakare (Sipna's COET, Amt.)	Mechanical Engineering

		Prof. D. G. Dalvi (P.R. Pote Poly, Amt.) Dr. S. B. Katore (Associate Prof, SGBAU) Dr. S. V. Jagtap (Associate Prof., RDIK, Badnera)
	2 day's workshop on QUADCOPTER DESIGN	ARK Techno solution Mumbai
	1 day's Workshop on 3-D Printing / Additive Manufacturing	Mr. Ameya Bhatal Mr. Prasanna Joshi Expert from CAD-CAM-GURU, Pune.
2014	One week STTP on Computer Assisted Manufacturing Systems (CAMS)	Dr. T. R. Deshmukh, PRMITR, Badnera.
		Dr. A. U. Awate, PRMITR, Badnera
		Dr. S. M. Kherde, KGIET, Darapur.
		Experts from Infinite Solution Pvt. LTD, Pune.
	1 day's Workshop on Automobile Seating System Designing	Mr. Prasanna Joshi Expert from CAD-CAM-GURU, Pune
	3 Days Workshop on "AUTO-INVACE"	Expertise Prigma Educational Technical Services, New Delhi

2013	One week STTP on Industrial Automation	Dr. S. B. Sharma, SGGSIET, Nanded Dr. B. M. Patre, SGGSIET, Nanded. Dr. D. S. Ingole, PRMITR, Badnera Dr. V. G. Arajjpure, BNCOET, Yavatmal Mr. S. Tange, Sr. Manager, Krish Engg. Pvt. LTd, Pune. Expert from Prolific System, Nagpur.	
	1 day's Workshop on Opportunities in Design field and related software	Mr. AMEYA BHATKAL Head – CAD-CAM Guru, PUNE 1st Floor, Florina Apartments, Survey No. 2/1/7, Off Karve Rd, Erandwane, Pune, Maharashtra 411004 Phone:020 2543 3529	
	1 day's Workshop on ROBOTICS	Mr. Prasanna Joshi, (CAD-CAM Guru)	
2012	3 day's Workshop on MECHATRONICS	Dr. S.K. Patil, College of Engg. And Technology, Akola	
2016	Android Workshop	Miss. Snehal Ganeshpure	Computer Science Engineering
2015	Ethical Hacking Workshop	Organized by BITS Pilani inst.	
2014	A Guest Lecture on Communication Skill	Mr. Gurmeet Shigh Kaur	
2012	Guest Lecture on	Mr. Ankur R. Patil From Pune	

	"How to score in Exam"		
2015	Special lecture on basic hands MATLAB Software by Prof. N.V. Raut	Asst. Prof. Dept of EXTC, KGIET Darapur	Electronics Engineering
	Workshop on Simulation Proteus tool for Third and Final Year	Mr. Sagar Bhagat, eSankalp Solution Pvt. Ltd. Amravati	
2014	Industrial Tour at Aurangabad & Nagar (Epitome Pvt. Ltd. & Global Logic Solution)	Trainer of PCB Designing at Epitome	
2013	Two days Robotic seminar for 2nd, 3rd and Final year student	Akhilesh sing Dhandoriya	
2012	Entrepreneurship Development Program	Mr. Aashish Tharar, Campus Point Solution	
2011	Special lecture on Soft Skills by Prof. Ashish Tarar	Campus Point Solution	
2016	Guest lecture on Renewable Energy Sources	Mr. N.M. Tembhurne	Electrical Engineering
2015	Guest lecture on Energy Audit	Mr. Manoj Tawlare (Ex. Engg. MSEB, Daryapur	
2014	Guest lecture on need of communication skill in engg.	Prof. P.R.S. Rao (Takshashila Mahavidhyalay, Amt.)	

2016	Guest Lecture on Role of UML in software development	MR. Nitin Khachane	Information Technology
	Guest Lecture on Web site Designing	VSAP ITes Pvt. Ltd	
2015	Guest Lecture on Start up India and Software App development	At Doc Hub Pune	
	Personality Development	MR. Rahul Yerme	
2014	Workshop on Ethical Hacking And Cyber Security	BITS Pilani	
2013	Guest Lecture on Software Testing	IT Solution Reasoning Complexity Simplified	
2012	Guest Lecture on Data Base Administration	For Core Code Techno It Solutions pvt.Ltd.	
2011	Workshop on .NET	TCS Pune	
2012	National Conference on Libraries from Palm Leaf to Paperless	Dr. Sonal Singh (Librarian, University) Dr. Mangala Hirwale (HOD, of Library Science, Nagpur University Dr. Vaishali Choukhande (HOD of Library & Information, Amt. University)	Library Science

2014	Induction Program for Industry	Ingenio Tech. Pvt. Ltd.	Training & Placement Cell
2017	Entrepreneurship Development Program	Mr. Nitin Kale, NYEDC, Pune	Training & Placement Cell
2016	Entrepreneurship Development Program	Mr. Anil Honrao , NYEDC, Pune	
2016	Career Guidance Personality Development	Dr. Vijay Bhatkar, Indian Scientist and Padma Shri and Padma Bhushan awardee, VC Nalanda University	
2016	Personality Development	Dr. Vijay Bhatkar, Indian Scientist and Padma Shri and Padma Bhushan awardee, VC Nalanda University	
2016	Mission IAS	Dr. Nareshchandra Kathole, Director, Mission IAS & Mr. Swapnil Alekar, Mission IAS	
2016	Personality Development	Mr. Anand Deshmukh, Faculty & Expert	
2016	Lean Manufacturing	Parag Pande, Technical Expert	

2016	Awareness workshop on Accreditation	Dr. A. B. Marathe	
2016	Agile Manufacturing	Dr. Ranjan Garge, Director, Pre IAS training institute Director, COSMOS Outward Bound Pioneers, Aurangabad	

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

Table No. 3.7 : Expertise in Departments

Department	Prioritized research area	Expertise
Mechanical Engineering	Lean manufacturing and TQM	Dr. S. M. Kharde
	Machining Technology	Prof. S. T. Warghat
	Production Technology	Prof. M. M. patil
	Computer Assisted Design and Manufacturing	Prof. D. B. Pawar
	Non-Conventional Energy Sources	Prof. A. S. Bombatkar
Computer Science Engineering	Object Oriented Programming, Computer Architecture Multimedia Technology, Software Engineering Data Structure, Programming Methodology, Network Security System Software, Theory of Computation, Computer Networks Database Management System, Artificial	Prof. V. P. Nikam Prof. A. A. Chinchmalatpure Prof. D. J. Manowar Prof. N. R. Borkar Prof. A. P. Rudey Prof. M. A. Wherate

	Intelligence Operating System	
Electronics & Telecommunication Engineering	Communication Engineering, Digital Communication & Signal Processing	Prof. N. V. Raut
	Microprocessor & Microcontroller and UHF & Microwave	Prof. K. A. Wankhade
	Instrumentation	Prof. Atul W. Kale
	Electromangentic Fields, Linear Integrated Circuits	Prof. M. V. Benodkar
	Network Analysis, Control Sytem	Prof. S. R. Gade
	Digital Integrated Circuits	Prof. D. S. Bhojane
Electrical Engineering	Electrical Power System & Protection of Power System, Signal Processing	Prof.A.N.Kausal
	Electrical Power System & FACTs Devices	Prof.A.M.Raut
	Microprocessor & Microcontroller, Digital Electronics	Prof. S.N.Nandeshwar
	Electrical Machine & Digital Electronics	Prof.P.H.Pikale
	Electrical Power System & Switchgear	Prof.P.G.Bonde
	PWM Techniques of converter & Study & Design of SMPS, High Frequency Transformer Design	Prof.N.D.Wadokar
	Electrical Machine & Power Quality	Prof.R.R.Devtare
Civil	Environmental Engg.	Prof. Mrs B S Shete

Engineering	Structural Engg	Prof. H.K. Lonpande
	Structural Engg	Prof. G.K. Bharsakle
	Structural Engg	Prof. A.A. Malokar
Information Engineering	SDLC,VLSI	Prof.V.M.Gulhane
	Network Security	Prof.T.N.Ghorsad
Science And Humanities	Green Chemistry, Organic Chemistry, Multicomponent	Prof. N.S. Ghotkar
	Relativity and Mathematical Physics	Dr. S.S. Dabhane
	Nanotechnology, Polymer Thin Film	Dr. Ms.R.N. Bhagat
	Language Methodology and Phonetics	Prof. S. V. Shinde
	Yoga	Prof. S.B. Yawale
	Polymer, Analytical- Physical- Green Chemistry	Prof. S.S. Bangade
	Electromagnetic Radiation	Dr. Ms.S.G. Vidhale
	Differential Equation	Prof.Ms.N.G. Chauhan
	Ciatation Analysis, Open Access Journal	Dr. P.M. Pete

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

The institution has a regular practice of attracting researchers of eminence to visit the campus and interact with the faculty members and students through guest lectures, workshops, seminars and conferences which serves as a platform to bring renowned researchers from across the national into the campus.

3.1.9. What percentage of the faculty has utilized Sabbatical Leave for research

activities? How has the provision contributed to improve the quality of research and imbibe research culture on the campus?

We have given sabotial leave to following faculties for research activities.

Table No. 3.8 : Faculties for research activities

Name of Staff	Department	Leave Sanction Year
Prof. N L Shegokar	Mechanical Engineering	2011
Prof.Ms.S.A.Ghormade	Electronics & Telecommunication Engineering	2012
Prof. Ms. S G Vidhale	Applied Science and Humanities	2012
Prof.Ms. H.D.Gujar	Computer Science and Engineering	2012
Prof.Ms. S.S.Dubey	Computer Science and Engineering	2013

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

The institute regularly organize workshops, seminars and special talks to create awareness and for advocating or transferring of relative findings of research among faculty members and students. With this motto national conference is organized regularly. The institute displays research findings of all students and faculty members on notice board and uploads such information on institute website. Outreach and awareness programmes are also organized regularly. This facilitates the students to get exposed to current research environment.

3.2. Resource Mobilization for Research

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

In the beginning of every academic year nearly 2% of the total budget may be extended as required by the department subject to the approval of the management/governing council.

The institution uses the funds for the purchase of advanced equipments, subscription of journals, periodicals and magazines, organization of invited talks, seminars and conferences etc.

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

Yes, The institution have a provision to provide seed money to the faculty for research. However, the institution taks all necessary steps to support in terms of infrastructure establishment, sponsoring registration fees for seminars and conferences and subscription of journals. The institution has a proposal to include a provision for providing seed money to the faculty in its upcoming budget.

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

During every academic year, innovative project proposals are invited from the students. The proposals are evaluated by an expert team. Financial assistance for executing the same is provided for the proposals which are recommended by the expert team.

Financial support is being provided to the students' to participate and present their projects works/innovative ideas, technical activities for the competitions organized both in national level.

Table No. 3.9 : Student research projects

Depart ment	Name of Student	Conference/Works hop/Technical	Name of Event	Place
Mecha nical Engine ering	Team of BAJA	Technical	BAJA OFF Road Car racing competition	Indor
	Team of Delta	Technical	Delta OFF Road Car racing competition	Jamshedp ur
	Team of Supra	Technical	Supra Off Road Car racing competition	Jamshedp ur
	Team of Delta	Technical	Delta OFF Road Car racing competition	NIT Jharkhand
	Team of Baja	Technical	BAJA OFF Road Car racing competition	Indor
	Team of Baja	Technical	ATV OFF Road Car racing competition	Ahmadnag ar
Comp uter Science Engine ering	Mr. Harshal Ghumare	Technical	Roborace	B.N.C.O.E. Pusad
	Ms. Shilpa Bodakhe & Ms. Poonam Kantale	Technical	Junk Art	Prajwalan, GCOE Amravati
	Mr. Mayur Chore & Mr. Gaurav Ashtikar	Technical	Persuit	Manifestati on, SSGMCE Shegaon
	Ms. Mohini Isal & Ms. Poonam Kantale	Technical	Code-Frenzy	Prajwalan, GCOE Amravati
	Ms. Shilpa Bodakhe & Ms. Poonam Kantale	Technical	Encipher	Prajwalan, GCOE Amravati
	Ms. Dipa Bodakhe & Ms. Mohini	Technical	Junk Art	Prajwalan, GCOE Amravati

	Isal			
	Mr. Roshan Hadole	Technical	Paper Presentation	Wardha
	Mr. Ashish Morokar & Ms. Namrata Mahajan	Technical	APOGEE	BITS Pilani
	Mr. Sachin Jadhal, Mr. Sachin Ingole, Mr. Nikhil Gulhane	Technical	Project Exhibition	Prayukti, KGIET Darapur
	Mr. Sumedh Dhawale	Technical	Racer Mania	Prayukti, KGIET Darapur
	Mr. Sumedh Dhawale	Technical	Racer Mania	Prajwalan, GCOE Amravati
Electronics & Telecommunication Engineering	Apeksh Ingale, Suvarna Wankhade	Technical	National Level Technical Research Paper Presentation Held at GHRCEM , Amravati	GHRCEM , Amravati
	Neha Raut, Nikita Bhuyar	Technical	National Level Technical Research Paper Presentation Held at GHRCEM , Amravati	GHRCEM , Amravati
	Ashish Bhure	Technical	Vidyotan Sipana Amravati	Sipana COE Amravati
	Gnjan Tambakhe, Mayur Zaparde	Technical		
Electri	Mahendra	Technical	PPT, Prayag- 15	Amravati

cal Engineering	Gade Diksha Surwale	Technical	PPT, Prayag- 15	
	Puja Dhale Digambar Pund Aishwarya Kosamkar	Technical	Prayukti-17	Amravati
		Technical		
		Technical		
Civil Engineering	Mr. Devendra Kothwar Roshan Dongre Payal Mukholkar	Technical	Prajwalan -17	Amravati
		Technical		
		Technical		
	Mr. Devendra Kothwar Miss Raibole, Miss Aashna Firdous, Miss Bhavna Mr.Hemant bhadke, Miss.Sweeta Tayade	Technical	Esperanza - 17	Amravati
		Technical		
		Technical		
	Miss Sakshi Sekokar, Mr Devindra Kothwar, Payal Mukholkar and team	Technical	Esperanza - 17	Murambha event 2015(Proje ct)

Miss.Aashna Firdous,	Technical		Amravati
Mr.Kushal Sangrame, Miss.Akansha Pande	Technical	Esperanza - 17	Amravati
Payal Mukholkar	Technical		Amravati
Mr. Devendra Kothwar	Technical	Esperanza - 17	Amravati
Miss Raibole, Miss Aashna Firdous, Miss Bhavna	Technical	Esperanza - 17	Amravati
Mr.Hemant bhadke, Miss.Sweeta Tayade	Technical	Esperanza - 17	
Miss Sakshi Sekokar, Mr Devindra Kothwar, Payal Mukholkar and team	Technical	Prayukti-17	Amravati
Miss.Mithila Bhadange, Mr.Shubham Khandare, Miss. Durgeshvari Ganeshe	Technical	Prajwalan -17	Amravati

	Miss.Aashna Firdous,Miss.Pyal Mukholkar	Technical	Prayukti-17	Amravati
	Mr.Kushal Sangrame, Miss.Akansha Pande	Technical	Prayukti-17	Amravati
Science & Humanities	Mr. Anand N. Chaurpagar	Technical	Blind-C	KGIET, Darapur
	Mr. Mangesh Isane, Vaishanvi Dakore, Vrushali Jawanjal, Prathamesh Gawai	Technical	Junk Art	KGIET, Darapur

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

There are some challenges like the intercommunication link between different disciplines, which had been resolved by as setting up the process given below

The college has a Research Committee which includes subject experts from different departments.

Every department of the college has its own final year project coordinator.

Various departments/faculty members of the Institute interact with the committee in undertaking inter-disciplinary research work.

Institute encourages joint guidance of students project work with the faculty members from different disciplines acting as supervisors. Its research group and centers' are devoid of department boundaries and can have members from different disciplines. Some of the showcase areas are in Mechatronics, Robotics, Image processing, etc.

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

Every department of the institute has the following:

- Facilities available in the institution in terms of computing facility, software, equipment, journals and magazines and Internet facilities are shared by the faculty members and students. The existing facilities are adequate for conducting research activities.
- Maintaining Log books for usage of equipment and software.
- The Research Committee monitors the research activities and keeps track of the usage of various resources and facilities for research.
- Laboratories are kept open beyond college hours as per the project need

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

The institution encourages faculty members to submit their proposals to various funding agencies for augmenting the research facilities available in the institution. A limited number of proposals have been submitted and the results are awaited.

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

Institute encourages the faculty to submit the research proposals to the funding agencies after getting approval from research committee. Research committee reviews the proposals submitted by the faculty. Institute has a policy decision that from each department to work on research proposal to be submitted.

3.3 Research Facilities

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

- **Research committee**

The institute has research coordination committee with one faculty from each department as a member. The adviser and senior professors interact with junior faculty members to ascertain their areas of research interests. The needs of researchers are given highest priority. All the departments have a separate research laboratory so that it can be exclusively made available to the students.

- **Central Computing facility**

The institute has Internet browsing center Open - access with 100 Mbps as a part of an extensive facility beyond college timing available for researches and students. Wi-Fi facility has been provided in the hostels for the students, research scholars.

- **Central Library e-sources**

Table No. 3.10 : Year wise library resources

Library Holdings	Year-1 (2011-12)		Year-2 (2012-13)		Year -3 (2013-14)		Year-4 (2014-15)		Year-4 (2015-16)		Year-4 (2016-17)	
	Number	Total Cost (Rs)	Number	Total Cost (Rs.)	Number	Total Cost (Rs)	Number	Total Cost (Rs)	Number	Total Cost (Rs)	Number	Total Cost (Rs)
Text Books	384	107459	954	321553	418	140383	283	108680	296	84218	165	52756
Reference Books	21	4246	59	24814	29	16449	15	9076	31	14904	9	5818
Social Welfare books	1116	497890	-	-	-	-	-	-	-		1178	651050
SW Reference Books	45	19610	-	-	-	-	-	-	-	-	52	34779

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

The institute has established laboratories with a mission of serving not only UG and PG students but also research scholars who are working towards their doctoral degree. All the departments of the institute have strategic planning for creating the research ambiance and to upgrade the research facilities on continual basis. The institute made budget allocation department wise for R & D initiatives. This fund is available to upgrade and create infrastructural facilities. The faculty and staff members also submit their proposals to various funding agencies for the same.

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

Being a young institution, the management has provided the required infrastructure and facilities required for doing research. However, proposals have been submitted to various funding agencies requesting funds to augment the existing research facilities.

3.3.4. What are the research facilities made available to the students and research scholars outside the campus/other research laboratories?

All the institutional resources including lab facilities, library facilities, internet facilities and other research facilities are made available for the students and research scholars outside the campus.
For accessing the resources of the institution, the request needs to be sent to the Principal of the institution through proper channel.

3.3.5. Provide details on the library/information resource centre or any other facilities available specifically for the researchers.

Table No. 3.11 : Library facilities for researchers

Department	No. of advanced books	No. of journals	Other memberships
Mechanical Engineering	1407	14	
Computer Science and Engineering & Information Technology	1181	14	DELNET* MEMBERSHIP / NDL
Electronics and Telecommunication Engineering	369	15	
Electrical Engineering	1318	14	
Civil Engineering	600	12	
Science and Humanities	180	02	

3.3.6. What are the collaborative research facilities developed/created by the research institutes in the college? For eg., Laboratories, library, instruments, computers, new technology etc.

Table No. 3.12 : Collaborative facilities for research

Collaborative research facility	Collaborative organization	Beneficiary departments
Electro-hydrolic control system trainer	Kambe Polytecnic Murtizapur, VSPD, Darapur, NVNS Polytechnic Amravati	Mechanical Engineering
Electro-Pnumatic controller trainer	Kambe Polytecnic Murtizapur, VSPD, Darapur, NVNS Polytechnic Amravati	Mechanical Engineering
PLC for hydrolic	Kambe Polytecnic	Mechanical Engineering

pneumatic trainer	Murtizapur, VSPD, Darapur, NVNS Polytechnic Amravati	
Automation studio analyser	Kambe Polytecnic Murtizapur, VSPD, Darapur, NVNS Polytechnic Amravati	Mechanical Engineering
Ansys 17.2 analysis software	Kambe Polytecnic Murtizapur, VSPD, Darapur, NVNS Polytechnic Amravati	Mechanical Engineering

3.4 Research Publications and Awards

Ph. D. holders should involve in research activities consistently and faculties and students of institute is in progress is in terms of filling and publish patents in various areas of engineering.

3.4.1. Highlight the major research achievements of the staff and students in terms of:

Research papers contributing to product development, benefiting the community and social development:

Table No. 3.13 : Achivements of staff & students

Department	Year	Title of Research
Mechanical	2013-14	Design and development pedal operated kithen granding machine
	2013-14	Design and analysis of grilling jigs for machine components
	2013-14	Designing development of test rig for gear inspection and testing
	2014-15	Design and simulation of tracking system of solar collector
	2014-15	Design and analysis of snap fit joint for plastic parts
	2015-16	Computer aided design and analysis of frging die
	2016-17	Failure investigation and improvement of performance of sprincklers by using FEM

3.4.2. Does the Institute publish or partner in publication of research journal(s)? If 'yes', indicate the composition of the editorial board, publication policies and whether such publication is listed in any international database?

- The Institution conducted National Conference on Emerging Research Trends in Engg. &Technology (NCERT-2015) during 02-03 November 2015. 34 papers from proceedings of NCERT-2015 have been published in the IJERA and IJETT.

3.4.3. Give details of publications by the faculty and students:

- Number of papers published by faculty and students in peer reviewed journals and conferences: (national/international): 267
- Number of publications listed in international databases:

International Databases	Total
Web of Science	-
Scopus	01
IEEE	01

- Monographs : Nil
- Chapter in Books Nil
- Books Edited - Nil
- Books with ISBN/ISSN numbers with details of publishers :

Table No. 3.14 : Book Publication by Faculty

Academic Year	Name of the faculty	Title of the book with ISSN/ISBN Number	Name of the publisher
2015-16	Prof. B. S. Shete	Environmental engineering-2 978-81-928888	Aditya Publication

3.4.3. Provide details (if any) of

- Research awards received by the faculty : Nil
- Recognition received by the faculty from reputed professional bodies and agencies, nationally and internationally : Nil

3.5. Consultancy

3.5.1. Give details of the systems and strategies for establishing institute-industry interface?

- *Memorandum of Understanding (MOUs)* - To bridge the gap between academics and industry, the institute encourages MOU signing with leading industries. The MOUs have been signed with prominent industries in the specific technical areas. The institute appoints a single point of contact (SPOC) for the Industries with whom MOUs are signed for smooth execution of the activities.

- *Entrepreneurship Development Cell (EDC)* - To inculcate entrepreneur culture among the students, the institute has established an Entrepreneurship Development Cell (EDC). The cell consists of a coordinator and a representative from each department. It organizes several programs by way of workshops, seminars, faculty development programs.

- *Other Activities* – The departments of the institute invite experts from the industry to share their experiences on current industrial trends and practices

- **Strategies**

  The institute has adopted following strategies for interaction with industry. Every department conducts Industrial visits, arranges guest lectures etc.

Table No. 3.15 : Institute Industries Interface

Department	Academic Year	MoU with industries
Mechanical	2015-16	Mahtma Gandhi Research Institute Wardha
	2014-15	Jadhav Icons, Amravati
	2014-15	Jadhav Gears, Amravati
	2014-15	Jadhav Steel Alloy, Amravati
	2012-13	CAD Tech Institute, Amravati

3.5.2. What is the stated policy of the institution to promote consultancy? How is the available expertise advocated and published?

- To enhance the professional and academic experience of the staff members, a strong link is established between the institute and external organizations so as to increase the research opportunities, student recruitment and placement. It also generated additional income for the faculty and staff. The consultancy areas are primarily in the field of testing and collaborative academic programs which are beneficial to both the institute and industry.

- The college has a stated consultancy policy as per which staff may engage in consultancy activity after taking their regular teaching load provided it does not conflict with the interests of the institute.

- Monetary and non-monetary benefits are extended to the faculty members by the college as per the stated policy of the society to utilize their efforts towards consultancy assignments

- The policy gives out the share of income for all staff working on the consultancy project depending on whether it is pure consultancy or testing work.

3.5.3. How does the institution encourage the staff to utilize their expertise and available facilities for consultancy services?

The institute encourages the staff to utilize their expertise for offering consultancy services. It has a well-defined down policy for disbursing the funds received from consultancy for both faculty and staff.

The institute provides facilities and seed money to carry out the testing and consultancy with external agencies. It provides financial support to the staff for industrial training where they can find the potential for consultancy. The Institute grants duty leave if necessary while their consultation work is in progress. The successful consultancy works are notified and appreciated in the annual performance appraisal report

3.5.4. List the broad areas and major consultancy services provided by the institution and the revenue generated during the last four years.

Table No. 3.16 : Major consultancy services

Sr. No.	Name of Faculty	Name of Industry	Name of the Department	Mode of Collaboration	Revenue Generated (Rs.)
1	Dr. S.M. Kherde	SSGMCE Shegaon		Expert	4000
2	Dr. S.M. Kherde	IBSS Amravati		Expert	3000
3	Dr. S.M. Kherde	PRMIT& R Badnera		Expert	4000
4	Dr. S.M. Kherde	JDIET Yawatmal		Expert	4000
5	Dr. S.M. Kherde	Anantraopawar College of Engg. Pune		Expert	5000
6	Dr. S.M. Kherde	G.H. Raisoni COE Amravati		UGC (Panel Member)	4000
7	Dr. S.M. Kherde	Mauli COE Shegaon	Mechanical Engineering	Expert	4000
8	Dr. S.M. Kherde	PRPGEI Amravati		Expert	4000
9	Dr. S.M. Kherde	AISSMS Pune		Expert	5000
10	Dr. S.M. Kherde	Maratha Mitrmandal Pune		Expert	5000
11	Dr. S.M. Kherde	Sipna COE Amravati		Expert	4000
12	Dr. S.M. Kherde	PC COE Pune		Expert	5000
13	Dr. S.M. Kherde	HVPM COE Amravati		Expert	3000
14	Mr. D.B. Pawar	MSBTE		Career on wheels	1000
15	Mr. S.T. Warghat	MSBTE		Career on wheels	1000
16	Mr. M.M. Patil	MSBTE		Career on wheels	1000
17	Mr. K.G. Hirde	MSBTE		Career on wheels	1000

18	Mr. A. W. Kale (As a Jury)	Hybrid Go Cart	Electronics & Telecommunications	ISIE Jalandhar Punjab	20000
19	Mr. A. W. Kale (As a Jury)	ESVC		ISIE Jalandhar Punjab	20000
20	Mr. A. W. Kale (As a Jury)	SSS Indira Institute of vaishnavpuri technology, Nanded		SSS Indira Institute of vaishnavpuri technology, Nanded	5000
21	Mr. S.V. Shinde	MSBTE	Science & Humanities	Career on wheels	1000

3.5.5. What is the policy of the institution in sharing the income generated through consultancy (staff involved: Institution) and its use for institutional development.

The institute has a policy which motivates faculty members to get involved in consultancy work. Major portion of the money earned would be utilized for promoting research and development facilities. The institute has well defined policy for disbursing the income from consultancy. Consultancy work should not affect the teaching-learning process.

- Expertise of faculty undergoing training would be used for consultancy.
- Financial revenue generated from consultancy work would be used for R&D and other incidental expenses.
- Faculty involved in consultancy work would be permitted to use college resources.

3. 6 Extension Activities and Institutional Social Responsibility (ISR)

3.6.1 How does the institution promote institution-neighborhood-community network and student engagement, contributing to good citizenship, service orientation and holistic development of students?

- Faculty members and students visit the social organizations and help them by donating the material as per need (food, notebooks, cloths, educational instruments, etc)

- The State level culture event-INNOVISION is organized every year. Students get opportunity to nurture their organization skills, showcase talent and interact with other college students.

- The college has a very active and enthusiastic NSS team that regularly organizes camp at rural area for interacting with the students and resident for promoting the imparting education, medical checkup.

- Poster Exhibition on Environmental Awareness program was arranged for students of the college by NSS.

- Institute implements the Earn and Learn Scheme of the SGBAU. This helps the students to understand the value of hard work for earning money.

- The student community is being benefited by implementing government reservation schemes and offering good scholarships for both merit and economic basis. The major strength of the institute is its ability to ensure holistic development of students to make them responsible citizens by teaching them the moral values. Institute provides quality based education to the students by inculcating moral values, scientific temper and employing state of art technologies. It aims to pursue excellence towards creating students with high degree of intellectual, professional and cultural development to meet the national and global challenges.

3.6.2 What is the Institutional mechanism to track students' involvement in various social movements/ activities which promote citizenship roles?

The Institute has a NSS Officer to create the awareness about the social activities movements/activities among the students, to plan various activities and ensure their participation. The student's participation is tracked by means of following methods-

- A student record file is maintained for all the students at the departmental level which includes all necessary details of the students,

including their personal details, performance in technical and cultural events.

- Institute tracks the articles of students published in newspapers.
- Guardian Teachers collects information from the concerned students.

3.6.3 How does the institution solicit stakeholder perception on the overall performance and quality of the institution?

Stakeholders such as Students, Parents, faculty members, University, Employers and the society are critical elements of the education system that decide the overall performance and quality of the institution. For smooth functioning of the Institute and to cater to the competitive environment, it is mandatory that certain processes be laid down in order to establish effective linkages between these elements, thereby contributing to the overall improvement in the existing system.

For addressing these issues effectively, following steps are taken at the Institute level: Parent-Teachers meeting are regularly being conducted to know about academic performance and quality of their wards and to provide constructive suggestions to improve the overall performance and quality of their wards and institution.

3.6.4 How does the institution plan and organize its extension and outreach programmes? Providing the budgetary details for last four years, list the major extension and outreach programmes and their impact on the overall development of students.

Every academic year various extension and outreach programmes are planned and executed .

- Blood donation camp
- Personality development
- Poster exhibition for Environmental Awareness
- Women's Day
- Teachers Day
- Engineers Day
- NSS Camp

The institute make budget for all these activities and also for guest lectures or invited talks. In addition, the institute organizes annual Technical Event Prayukti, Innovision in association sponcers. The details of extension activities

organized by the institute is given in Table 3.6.4.

Table 3.17 : Extension and Outreach Programmes

Year	Name of department	Name of Event	Objective / Purpose of Visit or Event
2013		Trends and opportunities and ethics of corporate sector	Enhancing the knowledge about the information about corporate sector
2013	Mechanical Engineering	Interdisciplinary poster presentation	To explore the student knowledge through presentation
2013		Opportunities in design field and related software	To explore knowledge in software
2013		Workshop on robotics	To integrate the knowledge of Robotics
2013		Guest lecture on personality development	Enhancing and grooming one's outer and inner self
2015		Ethical Hacking Workshop by BITS Pilai	To integrate the knowledge of Ethical Hacking
2015	Computer Science Engineering	Encipher (C++ Coding)	Through gaming develop the computer software designing
2014		A Guest Lecture on Communication Skill by Mr.Gurmeet Shigh Kaur	To enhance the knowledge about Communication skill

2012		Guest Lecture on "How to score in Exam by Mr. Ankur R. Patil From Pune	Students to learn tacts to scoresee the insight and perspective of the guest speaker's particular field
2011		C Coding competition in Prayukti	To explore knowledge in software
2015	Electronics Engineering	Special lecture on basic hands MATLAB Software by Prof. N.V. Raut	To give the knowledge about MATLAB
		Workshop on Simulation Proteus tool	To integrate the knowledge about simulation proteus
		Engineers Day	To make a difference in the world in the engineer career
		Teachers Day	To appreciate teachers and their faliticiation
2014		Industrial Tour at Aurangabad & Nagar (Epitome Pvt. Ltd. & Global Logic Solution)	To get the knowledge about industrial work
		Induction Program for Industry	To integrate the new provides the necessary information to students.
		Engineers Day	To make a difference in the world in the engineer career
		Teachers Day	To appreciate teachers and their faliticiation
2013		Two days	To integrate the knowledge about robotics

		Robotic seminar for 2nd , 3rd and Final year student	
		Engineers Day	To make a difference in the world in the engineer career
		Teachers Day	To appreciate teachers and their faliticiation
2012		Enterprenuireship Development Program	To develop the knowledge about enterprenuireship
		Engineers Day	To make a difference in the world in the engineer career
		Teachers Day	To appreciate teachers and their faliticiation
2011		Special lecture on Soft Skills by Prof. Ashish Tarar	To develop the soft skill
		Engineers Day	To make a difference in the world in the engineer career
		Teachers Day	To appreciate teachers and their faliticiation
2016	Electrical Engineering	Gest lecure Renewable Energy Souces	To enhance the knowledge
		Engineer's day	To make a difference in the world in the engineer career
		Teacher Day	To appreciate teachers and their faliticiation
2015		Gest lecure on Energy Audit	To enhance the knowledge
		Engineer's day	To make a difference in the world in the engineer career
		Teacher Day	To appreciate teachers and their faliticiation
2014		Gest lecture on Need on	To enhance the knowledge of communication skill

		communication skill in Engg.	
2014 2016	Civil Engineering	Teachers day program	To appreciate teachers and their felicitation
2015		Engineer's day celebration	To make a difference in the world in the engineer career
2016		Tree plantation	Awareness to save tree
2016	Science & Humanities	Induction Program-2016	To integrate the new provides the necessary information to students.
		Parents Meet-2016	To make a lasting bond with the parent to increase the like hood academic success for their child
		Communication Skill Development Prog. By Mr. Shivaji Kuche	To integrate the new provides the necessary information to students.
2015		Induction Program-2015	To integrate the new provides the necessary information to students.
		Parents Meet-2015	To make a lasting bond with the parent to increase the like hood academic success for their child
2014		Induction Program-2014	To integrate the new provides the necessary information to students.
		Parents Meet-2014	To make a lasting bond with the parent to increase the likehood acedemic success for their child
		Guest Lecture By Dr. Avinash Sawaji	Students get to see the insight and perspective of the guest speaker's particular field
2013		Induction Program-2013	To integrate the new provides the necessary information to students.

		Parents Meet-2013	To make a lasting bond with the parent to increase the likehood acedemic success for their child
		Engineer's Day:- Guest Shri. Kiran Hatgaonkar	To make a difference in the world in the engineer career
2012		Induction Program-2012	To integrate the new provides the necessary information to students.
		Parents Meet-2012	To make a lasting bond with the parent to increase the likehood acedemic success for their child
		Guest Lecture By Dr. A.V. Kadu (Topic-Nanotechnology)	Students will learn nanotechnology safety issues, developing skill sets to assess & determine appropriate actions to maintain a safe working environment.
2011		Induction Program-2011	To integrate the new provides the necessary information to students.
		Parents Meet-2011	To make a lasting bond with the parent to increase the likehood acedemic success for their child
2016	All Department and National Service Scheme	Blood donation Camp	Collection of bags of blood to donate to the hospitals
		Personality development	Enhancing and grooming one's outer and inner self
		Environment Awareness	To aware about environment
		Teachers Day	For the appreciation of teachers
		Engineers Day	To make a difference in the world in the engineer career
		Women Day	To action for accelerating gender parity
		NSS Camp	Social Awareness
		Checkup Eye Camp	To help the Poor people

		Distribution of school kit	To help the poor students
		IAS Guidance Workshop	To prepare the students for competitive exam
		Reading Inspirational Day Dr. APJ Abdul Kalam Janyanti	To inspire reading skill and concentration
		communication skill & Meditation workshop	To concentrate towards aim
		English Langauge Development workshop	To develop English language
		Women Harassment Workshop	Gender equality Awareness
		Rubela Lasikaran (health camp)	Health awareness
		Constitution Day	Knowledge regarding to act
		Votor Awareness Abhiyan	Awareness about voting
2015		Blood donation Camp	Collection of bags of blood to donate to the hospitals
		Personality development	Enhancing and grooming one's outer and inner self
		Environment Awareness	To aware about environment
		Teachers Day	For the appreciation of teachers

		Engineers Day	To make a difference in the world in the engineer career
		Women Day	To action for accelerating gender parity
		NSS Camp	Social Awareness
		Shahu Maharaj Jayanti	Awareness about equality
		Distribution of school kit	To help the poor students
		Jan Jagruti Abhiyan	Social Awareness
		Saksharta Dindi	Social Awareness
		HIV Aids Awareness	Health awareness
		Gram Shwachta Abhiyan	To clean the village
		Women Harassmant Workshop	Gender equality Awareness
		Sociol Guidance Pograme	Social Awareness
2014		Blood donation Camp	Collection of bags of blood to donate to the hospitals
		Personality development	Enhancing and grooming one's outer and inner self
		Environment Awareness	To aware about environment
		Teachers Day	For the appreciation of teachers
		Engineers Day	To make a difference in the world in the engineer career
		Women Day	To action for accelerating gender parity
		NSS Camp	Social Awareness

		Debate Competition	To give the opportunity to build the leadership
		Awareness Rally	Social Awareness
		Student Adoption scheme	To help the down trodden people
		Road Safety Awareness	Life safety awareness
		Pulse polio Abhiyan	Health awareness
		Sant Gadge Maharaj Jayanti	Social Awareness
2013		Blood donation Camp	Collection of bags of blood to donate to the hospitals
		Personality development	Enhancing and grooming one's outer and inner self
		Enviorment Awareness	To aware about environment
		Teachers Day	For the appreciation of teachers
		Engineers Day	To make a difference in the world in the engineer career
		Women Day	To action for accelerating gender parity
		NSS Camp	Social Awareness
		Debate Competition	To give the opportunity to build the leadership
		Awareness Rally	Social Awareness
		Student Adoption scheme	To help the down troden people
2012		Blood donation Camp	Collection of bags of blood to donate to the hospitals

		Personality development	Enhancing and grooming one's outer and inner self
		Environment Awareness	To aware about environment
		Teachers Day	For the appreciation of teachers
		Engineers Day	To make a difference in the world in the engineer career
		Women Day	To action for accelerating gender parity
		NSS Camp	Social Awareness
		Aptitude Test	To explore the knowledge
		Distribution of school kit	To help the poor students
		Environmental sci, Helth sci, Cleanness	Social Awareness
		Debate Competition	To give the opportunity to build the leadership
2011		Blood donation Camp	Collection of bags of blood to donate to the hospitals
		Personality development	Enhancing and grooming one's outer and inner self
		Environment Awareness	To aware about environment
		Teachers Day	For the appreciation of teachers
		Engineers Day	To make a difference in the world in the engineer career
		Women Day	To action for accelerating gender parity
		NSS Camp	Social Awareness
		Distribution of school kit	To help the poor students
		Personal Guidance	Personnel Guidance
		Debate Competition	To give the opportunity to build the leadership

3.6.5 How does the institution promote the participation of students and faculty in extension activities including participation in NSS, NCC, YRC and other National/International agencies?

- The college organizes various activities through Students' Clubs, NSS and other forms of community development services.
- The student club members plan the activity and communicate to student for active participation. During induction programmes, coordinators of the extension activities interact with the students and discuss about the benefits and scope of the activities.
- The students who are active members of NSS and other outreach programs are given academic liberty in the form attendance, internal marks based on the performance
- The information about the proposed activities are disseminated through the college notice board, academic calendar, circulars, web notifications and also by word of mouth.
- The student's participation for social activity is promoted and rewarded with certification.

3.6.6 Give details on social surveys, research or extension work (if any) undertaken by the college to ensure social justice and empower students from under-privileged and vulnerable sections of society?

- Organised Voter Awareness camp social awareness life saving event during 03-26 Jan 2016.

- Organised Swachhata Rally as a social event in nearby villages of Darapur on dated 03-26 Jan 2016.

- Organised Reading Motivational day on occasion of Dr. APJ Abdul Kalam birth Ceremony on dated at KGIET campus 15 Oct 2016.

- Organised Constitution day program for social awareness in KGIET Campus on dated 26 Nov 2016.

- Organised Hirkani Programme on social awareness in year 2013.

- Organised social awareness with women related problems by social

activist Razia Sultan.

- Organized Voluntary Blood Donation Camp in the years of 2011 and 2017 in association with Government Hospital, Amravati, Akola and PDMC Hospital Amravati.

3.6.7 Reflecting on objectives and expected outcomes of the extension activities organized by the institution, comment on how they complement students' academic learning experience and specify the values and skills inculcated.

The involvement of students in various extension activities has instilled a sense of accountability and responsibility among them in addition to being sensitive towards various social issues. Through these activities, students have learnt about counseling, interpersonal communication, team work, leadership, managerial and entrepreneurial skills. Attitude, decision making, critical thinking among students is found to be increased

3.6.8 How does the institution ensure the involvement of the community in its reach out activities and contribute to the community development? Detail on the initiatives of the institution that encourage community participation in its activities?

The institution takes the support of responsible persons like village head, members of gram panchayat and Village Administrative Officer to ensure the involvement of local population in its community development activities. Pamphlets highlighting the planned activities and its significance are distributed to the public in advance.
The institution takes keen interest in career guidance programmes are being organized for their benefits. Question bank for Mathematics Physics and Chemistry have been provided for higher secondary school students in rural areas. Events organized like blood donation camps, planting saplings, white washing government schools, cleaning Village, have attracted the involvement of the community.

3.6.9 Give details on the constructive relationships forged (if any) with other institutions of the locality for working on various outreach and extension activities.

- NSS unit of the institution in association with Government Hospital, Amravati, organizes a blood donation camp every year.

- The institution in association with Prayas Oraganisation, Amravati organized youth empowerment programme.

- Civil Department nof the institution in association with Darapur village panchayat organized tree saplings plantation programmes..

- The institution in association with district administration organized rallies to create an awareness to the public on health awareness, ill effects of liquor, dengue, cleanliness and voter awareness.

3.6.10 Give details of awards received by the institution for extension activities and / contributions to the social/community development during the last four years.

- Won third prize in Delta OFF Road Car Racing Competition received from Delta, Jamshedpur (Organizer) for participating and won the students of our institute in the year 2013-14.

- Appreciation award received from SAE-India for selected for Supra off Road racing competition in the year 14-15.

- Appreciation award received from NIT- Jamshedpur organized by delta for selected for delta-off road car racing competition held at NIT Jharkhand in the year 15-16

- Appreciation award received from SAE-India for selected in BAJA-OFF Road Car racing competition held at Indor in the year 2015-16.

- Appreciation award received for selected in ATV-Off-Road Car racing competition held at Ahmadnagar in the year 2016-17.

3. 7 Collaboration

3.7.1 How does the institution collaborate and interact with research laboratories, institutes and industry for research activities. Cite examples and benefits accrued of the initiatives - collaborative research, staff exchange, sharing facilities and equipment, research scholarships etc.

The department of training and placement acts as a liaison between the institution and industry. It is in regular contact with the human resource managers of leading industries. Through this, on one hand, the profile of the institution along with the expertise available is shared with the industry. On the other hand, the requirements and expectations of the industry are communicated to the faculty and students.

This institute-industry-interface helps the institution to arrange seminars, workshops, industrial visits, internships, project works and placement for the faculty and students. Necessary steps have been taken to undertake research and provide consultancy to industries. The institution also encourages faculty members to visit industries to supervise the project work carried out by the students in industries and to ascertain the possibility for any consultancy/collaboration/ research activities.

3.7.2 Provide details on the MoUs/collaborative arrangements (if any) with institutions of national importance/other universities/industries/ corporate (Corporate entities) etc. and how they have contributed to the development of the institution.

The Institute has signed MoUs with external organizations to conduct activities like Training, Placement, Development of training facilities for students, Guest Lectures, Participation in technical events and Advanced Learning. The details on MoU signed with industries is given in following Table.

Table No. 3.18: MoU / Collaborative arrangements with institute

Name of the Company with which MoU signed	Activities carried out under MoU & contribution for department	Beneficiary/Purpose
Jadhav Gear Amravati	Pedal operator	Public product

Jadhav Gear Amravati	Gear inspection	Jadhav gear
Brijesh packing industry amravati	Design of sockfit joint	MGIRI wardha
Jadhav Gear Amravati	CAD design and analysis	Jadhav steel alloy
National young entrepreneurs development center (NYEDC), Pune	Give the technical, financial, managerial guidance/ consultancy to student, Provide necessary resource person, study material for the training purpose to students, Designing of syllabus, course material	Enhancement of student and Provide all types support to trained candidates for establishing their small scale industrial (SSI) Unit
Rankjunction National Exam Network, Nagpur	Collaboration in updating students for various campus drives	Facilitating a separate customized training and placement portal to the Training and placement cell KGIET and Conducting various pre-assessment programmes for the students
Ingenio Technologies Pvt.Ltd. Pune.	Collaboration in areas of mutual interest and exchange of knowledge	To concrete theoretical knowledge based faculties are conducting session for company

		employees and in future dept will get consultancy projects from company
Scout technologies pvt. ltd	Training and placement assistance	Placement of students
ASPA band sons, auto pvt.ltd. maruti suzuki Amravati	Industrial Training, student project work in industry, Curriculum development and R&D	Vocational training for the student and faculty and to carry out research work
APTECH LTD. Mumbai	Conduction of the examinations	Training to students
World Wide ITES, Kolhapur	Conduction of corporate training/exam on basis of online/offline/server	Skill development and corporate training of students
AV Solar Solutions Old City, Akola	To install, commission 45 KW Roof Top Solar Power Projects	Customer will enter into Power Purchase Agreement (PPA) with Developer for period of 15 years at price of Rs. 7.75 per unit

3.7.3 Give details (if any) on the industry-institution-community interactions that have contributed to the establishment / creation/up-gradation of academic facilities, student and staff support infrastructure facilities of the institution viz. laboratories / library/ new technology /placement services etc.

- The institution has established the following centers of excellence on the latest technology in collaboration with industry

- MoUs have been signed through which students carry out their projects in the industry.

- Industrial training is provided to faculty members.

- Value added courses are conducted for students on topics related to current technology by industry experts.

- The students undergo in-plant training, internships, industrial visits and attend expert lectures every semester.

3.7.4 Highlighting the names of eminent scientists/participants, who contributed to the events, provide details of national and international conferences organized by the college during the last four years.

Table No. 3.19 : Details of Eminent scientists & National/ International Conferences organized by college

Date of the event	Title of the event	List of eminent scientists/participants
02-03 NOV 2015	National Conference on Emerging Research Trends in Engineering and Technology-2015	Dr.R.S.Sapkal (Director of BCUD) Dr.G.R.Bannote (Dean, faculty of Engg & Tech.SGBAU)
13 OCT 2012	National Conference on Libraries from Palm Leaf to Paperless	Dr. Sonal Singh (Librarian, University) Dr. Mangala Hirwale (HOD, of Library Science, Nagpur University) Dr. Vaishali Choukhande (HOD of Library & Information, Amt. University)

3.7.5 How many of the linkages/collaborations have actually resulted in formal MoUs and agreements? List out the activities and beneficiaries and cite examples (if any) of the established linkages that enhanced and/or facilitated.

- Curriculum development/enrichment: Yes
- Internship/ On-the-job training: Yes
- Summer placement: Yes
- Research: Yes
- Consultancy: Yes
- Extension: Yes
- Publication: Yes
- Student Placement: Yes

3.7.6 Detail on the systemic efforts of the institution in planning, establishing and implementing the initiatives of the linkages/ collaborations.

The institution establishes linkages/collaborations with industries/ industry associations to organize seminars, workshops, industrial visits, internships, project works and placements for the students along with faculty empowerment. The department of training and placement of the institution along with the concerned department faculty members is entrusted with this work.

CRITERION IV: INFRASTRUCTURE AND LEARNING RESOURCES

4.1 Physical Facilities

Dr. Sau. Kamaltai Gawai Institute of Engineering and Technology (KGIET), Darapur is established under the flagship of Shri. Dadasaheb Gawai Charitable Trust, Amravati. The Trust provides qualitative and invaluable service in the field of, especially for the poor and the down trodden classes of the society. The Trust was started by our Hon'ble Patron, Shri. R. S. Gawai. Today the Dadasaheb Gawai Charitable Trust runs 47 Institutions, from Primary schools to colleges; the recent addition is an Engineering college. The institute is named as Dr. Sau. Kamaltai Gawai Institute of Engineering and Technology (KGIET), Darapur. Institute is located at Darapur, Taluka - Daryapur, District – Amravati, Maharashtra State, India. It is located 32 KM towards west from District headquarters Amravati and 19 KM from Daryapur.

Dr. Sau. Kamaltai Gawai Institute of Engineering and Technology, Darapur is situated on land having area of 10 acres in Darapur. The college building is subdivided into five blocks of building namely main building, first year building, Civil Engineering block, Mechanical Engineering block, Library building. Two separate hostels one for girls and other for boys are also situated in the college campus. In the main building there is administrative block, Computer science engineering department, Electrical engineering department. Administrative block is having total area of 166.40 m² including Principal's chamber,

4.1.1   What is the policy of the Institution for creation and enhancement of infrastructure that facilitate effective teaching and learning?

The basic infrastructure required for teaching and learning is in line with the norms recommended by AICTE and Sant Gadge Baba Amravati University, Amravati. Infrastructure like laboratories, classrooms, library, tutorial room, seminar hall, internet etc. is reviewed by various committees approved by AICTE, DTE and Sant Gadge Baba Amravati University and necessary budget is allocated for up gradation.

The enhancement of infrastructure that facilitate effective teaching and learning is attained by providing facilities like

- LCD projectors.

- Public Address system in classrooms and seminar hall.

- Wi-Fi facility for students and faculty.

- Additional computers with higher configuration and software.

- Additional equipment in the laboratories.

- Expansion of library(digital library,e-journals)

4.1.2 Detail the facilities available for

a)   Curricular and co-curricular activities – classrooms, technology enabled learning spaces, seminar halls, tutorial spaces, laboratories, specialized facilities and equipment for teaching, learning and research etc.

The facilities available in the institute for curricular and co-curricular activities are shown in Table No. 4.1.2 (a) and 4.1.2 (b).

Table No. 4.1(a) Details of Infrastructure facilities

Sr. No.	Facility	Details of the facility available
1.	Class Rooms	Class rooms are well equipped with Desks, bench, Platform, Fans, Tube lights, Green board, PA System, LCD Projector, curtains having 23 classrooms for UG worth area of 1518 m² and 3 classrooms for PG with total area of 100 m²
2.	Workshop	Various sections like machine shop, fitting shop, sheet metal shop, welding shop, carpentry and foundry are equipped with conventional machines/tools, having total area of 783.43 m²
3.	Drawing Hall	One Drawing hall is equipped with drawing boards, stools, chalk boards having area of 132 m²
4.	Seminar Hall	Three Seminar Hall equipped with Dias, Chairs, White board, Table, Podium, P.A. system, Fans, light, LCD Projectors with area of 132 m² each total area 396 m² etc.
5.	Laboratories	Total 43 laboratories with area of 3113.08 m² are equipped with adequate Instruments / equipment to meet the curriculum and Program Outcomes.

6.	Central Library and Departmental Libraries	Text books, reference books, e-books, magazines, journals, e-journals, audio visual academic resources, projects, seminar reports, University question papers, national and international journals and magazines
7.	Faculty Rooms	Individual/shared 16 faculty rooms having area of 5 m² each and there is a provision of sitting of faculty in a laboratories are equipped with the required facilities such as LAN connection, furniture etc.
8.	Electricity and Power Backup	The college has made arrangements for power connections with a central power room and a generator for power backup.
9.	Drinking water	The college has a water purification and cooling facility at each department and hostels.
10.	Washrooms	Adequate Gents and Ladies washrooms are available in every department at proper locations having total area of 300 m².
11.	Canteen/ Mess	Canteens are available for staff and students with total area of 219.32 m²
12.	Security	The college has the service of own security which takes care of security measures. The institute is under CCTV camera surveillance.
13.	ATM Facility / Bank Facility	One ATM facility is available in the campus for students and staff members in the campus.
14.	Photocopy Machine	More than two Photo copying centers are available for students and staff in the campus.
15.	Post Office	One post office within 9.00 AM – 5.00 PM is available for staff and students.

Table No. 4.1(b) Department wise Details of available facility

Facility	Applied Science And Humanities		Civil		Mechanical		Electrical		EXTC		Computer Science	
	No	Area(m²)	No	Area(m²)	No	Area(m²)	No	Area(m²)	No	Area (m²)	No	Area m²
Class room	2	183.97	7	465.36	05	352.54	3	245.32	4	299.22	5	380.14
Seminar Hall	-		1	132.96			1	136.4				
Laboratories	3	334.06	10	599.98	9	866.14	7	453.61	6	347.93	7	444.8
Departmental Library	-	-	Nil	-	1	-		Nil	-	-	Nil	-
Tutorial Room	1	29.76	1	31.36	1	35.26	1	29.76	1	31.57	-	-
HOD Cabin	1	20.15	1	10.5	1	17.28	1	19.85	1	14.81	1	13.84
Washroom	3	25.09	4	66.48	3	47.72	1	20.9	2	20.48	2	87.6

Communication lab area is 66.56 m²which is used by all departments for communication skill subject

b) Extra–curricular activities–sports, outdoor and indoor games, gymnasium, auditorium, NSS, NCC, cultural activities, Public speaking, communication skills development, yoga, health and hygiene etc.

The institute encourages the students to participate in several extra-curricular activities. To cope up with the requirements for extra-curricular activities, the institute has sufficient infrastructure. The details of facilities available in the

Institute for Extra–curricular activities are shown in Table No. 4.1.2(c).

Table No. 4.1 (c) Details of Infrastructure facilities

Sr.	Facility	Details of the facility available
1.	Cricket Ground	One Cricket ground utilized for various regional and national tournaments having area of 6300 m^2
2.	Play ground	Basket Ball, Volley ball and Foot Ball
3.	Indoor Games	Tables Tennis, Chess, Carom board of size 29.73 X 36.18 m^2 1075.63 m^2
4.	Open Air theatre	Ample space with Dias, Chairs, Lights, fans, LCD Projector and 600- 800 sitting capacity for audience.
5.	NSS	National Service Scheme (NSS) has been started in association with SGBAU through which Social welfare activities like blood donation, Special Camps, are organized. Having total area of 20 m^2.
6.	Gymnasium	Gymnasium of area 36 m^2 is available for students
7.	Cultural Activities	Every year, a cultural program named "INNOVISION" is organized to encourage the students to participate in performing arts. This program is very useful to bring out hidden talent of students.
8.	Newspaper at Library	English, Marathi newspapers are made available in the in the central library.
9.	Canteen	Two canteens one with ice crème parlor is available for students and staff in the campus of area 219.32 m^2
10.	First Aid Room	First Aid Room is available in workshop with area of 12.71 m^2.
11	General Stores	One general store of area 22.55 m^2 with various facilities like all engineering accessories, mobile recharge vouchers etc. are available.

12	Stationary store	Which contains journals, stationary required in engineering applications

4.1.3 How does the institution plan ensure that the available infrastructure is in line with its academic growth and is optimally utilized? Give specific examples of the facilities developed/augmented and the amount spent during the last four years (Enclose the Master Plan of the Institution / campus and indicate the existing physical infrastructure and the future planned expansions if any).

Since its inception in 2008, the institute has been keeping pace with the changing needs and requirement to meet its academic growth. To keep the pace with the needs and requirements of increased intake, additional infrastructure is being added from time to time. In the last four years, additional facilities have been developed by the Institute. The details of the amount spent on the facilities are as under:

Table No. 4.2 Details of Amount Spent (Amount in Rs)

Sr. No.	Addition in Infrastructure facilities	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17
1	Furniture and Fittings	2945780	NIL	4032735	2945780	1411250	NIL
2	Equipment and Machinery	3500000	6158717	5168422	3339598	1827712	NIL
3	Computer Equipment	2800000	2171785	3360000	NIL	1180000	NIL
4	Building	NIL	NIL	43630500	NIL	NIL	NIL

The layout regarding master plan of the Institution / campus is given in Fig. 4.1.3

A - Main Building
  - Administrative
  - Block, Dept. of
    Computer Science
    & Engg.
  - Dept. of Electronics
    & Telecommunication)

B - Dept. of Science
    & Humanities
  - Liabrary,
  - Dept. of Elect.Engg.
C - Dept. of Mechanical
    Engg.

D - Dept. of Civil
    Engineering
E - Proposed library
    building
F - Workshop

G - Boys hostel
H - Cafeteria
L - Parking area
M - Indoor stadium
N - ATM Counter

I - Gents toilet
J - Four wheeler parking
K - Two wheeler parking
    for students
O/P - Tutorial room /
      Cooperative store
Q - Ladies toilet
R/S/T - Play-Ground

Fig. 4.1.3: Layout of the campus

4.1.4   How does the institution ensure that the infrastructure facilities meet the requirements of students with physical disabilities?

The institute has the policy that the classrooms and examination hall for physically disabled students are on the ground floor. All the buildings are provided with ramps for disabled students to enter the building.

4.1.5   Give details on the residential facility and various provisions available within them:

The institute has made the residential facilities available for one hostel warden and students. All the student hostels are fully equipped with the basic needs. The details of residential facilities and various provisions available within the campus are given in Table 4.1.5.

Table No.4.3 Details of residential facilities and various provisions

Sr. No.	Available Residential Facilities	Various Provision Available within them
1.	Hostel Facility (Boys) – Accommodation Available	Two Boys Hostel No. of Inmates -100 Mess, Cafeteria, campus clinic, Ambulance, Laundry etc
	Hostel Facility (Girls) – Accommodation Available	Two Girls Hostel No. of Inmates -100 Mess, Cafeteria, campus clinic, Ambulance, Laundry etc
2.	Recreational facilities, gymnasium, yoga center, etc.	Daily newspaper to serve as a source of information,
3.	Computer facility including access to internet in hostel	Computer facility is not available in the hostel however central browsing Centre is open from 5.00 PM – 1.00 AM.
4.	Facilities for medical emergencies	Doctor is available on call, medical store is closed to college campus and open from 9.00AM–9.00PM.Incase of emergency ambulance is available.
5.	Library facility in the hostel	Central Library facility is available in the campus and is open in college working hours.
6.	Internet and Wi-Fi facility across the campus	Internet with 10 mbps Broadband and 100 mbps. Lease line and Wi-Fi with 2 mbps. Mbps is available
7.	Recreational facility-common room with audio- visual equipment	Television set is available in the common room.
8.	Available residential facility for the staff and occupancy	Available for teaching staff-03 Availed by Teaching staff-01 Available for Non-teaching staff-02 Availed by Non-teaching staff-02

9.	Constant supply of safe drinking water	Water cooler with aqua guard RO Filter is available at the institute and in every hostel.
10.	Security	Guards on shift basis: 2 guards in the morning shift, 2 in the evening/night shift.
11.	Fire-fighting equipment	Fire-fighting facility is available at the institute and in every hostel.
12.	Mess	Two mess for girls and boys hostel are available separately with average capacity of 40 sitting capacity
13.	Generator back-up	Two generators of 36 KVA and 66 KVA capacity are ready in working conditions to give power backup for 24 hours in case of emergency.

4.1.6 What are the provisions made available to students and staff in terms of health care on the campus and off the campus?

- The institute has got one ambulance for 24 hours in a ready condition for medical emergency, counseling and treatment.

- First aid box in all the departments

- Medical Insurance scheme (General Insurance Scheme) for staff at Society level.

4.1.7 Give details of the Common Facilities available on the campus–spaces for special units like IQAC, Grievance Redressel unit, Women's Cell, Counseling and Career Guidance, Placement Unit, Health Centre, Canteen, recreational spaces for staff and students, safe drinking water facility, auditorium, etc.

(Give only space availability details for meeting of these committees.

Table No. 4.4 Common Facilities available in the campus

Sr.	Common Facilities	Availability	Location
1.	IQAC(Internal Quality Assurance	Available	Main Building First floor
2.	Grievance Redressel Committee	Available	Main Building Ground floor

3.	Women's Cell (Task force cell against sexual harassment at work	Available	Main Building Ground floor
4.	Counseling and Career	Available	Main Building Ground floor
5.	Placement Cell	Available	Main Building Ground floor
6.	Purchase Committee	Available	Main Building Ground floor
7.	Website	Available	www.kgiet.ac.in
8.	Class room Maintenance	Available	Main Building Ground floor
9.	Students' Activity	Available	Mechanical Workshop
10.	Project Evaluation Committee	Available	Separate for each dept.
11.	Robo-club Activities	Available	Mechanical / Electronics Dept.
12.	Cultural Activity	Available	Main Building First Floor
13.	Sport Activity	Available	Gymnasium
14.	Student Council	Available	In each dept., CESAA, MESAA, E2SA
15.	Technical event 'Prayukti'	Available	Main Building First Floor
16.	Students Welfare officer	Available	Main Building First Floor
17.	Alumni Coordination Committee	Available	Main Building First Floor
18.	Student Training Programme (STP)	Available	Main Building First / Ground Floor
19.	Health Centre (Gym)	Available	One in number at first year
20.	Canteen	Available	Two canteens are available open from 7 AM- 10 PM.
21.	Recreational spaces for staff and students	Available	Basket Ball court, Yoga Centre, Cricket ground
22.	Safe drinking water facility	Available	One in each department and at required locations.

23.	Security	Available	At required locations security check points are provided.

4.2 Library as a Learning Resource:

4.2.1 Does the Library have advisory Committee? Specify the composition of such a committee. What significant initiatives have been implemented by the committee to render the library, student/user friendly?

Yes.

• The library has an Advisory Committee. It comprises of Principal as Chairman, Librarian a secretary, one senior faculty from each department as member. The tenure of the committee is of three years and the committee meets once in a semester for reviewing the functioning and activities of the library. The major initiatives taken by Library Committee (LC) to support the development of Library are as follows:

• Ensuring procurement of quality books commensurate with the syllabus revisions of Sant Gadge Baba Amravati University, Amravati and AICTE norms

• Prepared the rules and regulations for issue-return system for smooth functioning taking into considerations the students' needs

• Enhancing general reading skills among the students by providing Open Access to library resources on student demand time to time.

• Extended Library hours are provided during university exams.

• Recommendation of Book Bank facility for students

• Recommendation of merit Student Book Bank Facility

4.2.2: Provide Details of the Following:

• Total Area of Library : 1502.69 m²

• Library Reading Room: 146.89 m²

• Faculty & staff Reading Room: 16.68m²

• Librarian Cabin: 8.34 m²

• Stack room: 94.48 m²

Library Layout:

• The floor wise layout of the central library is shown in Figure 4.2.2
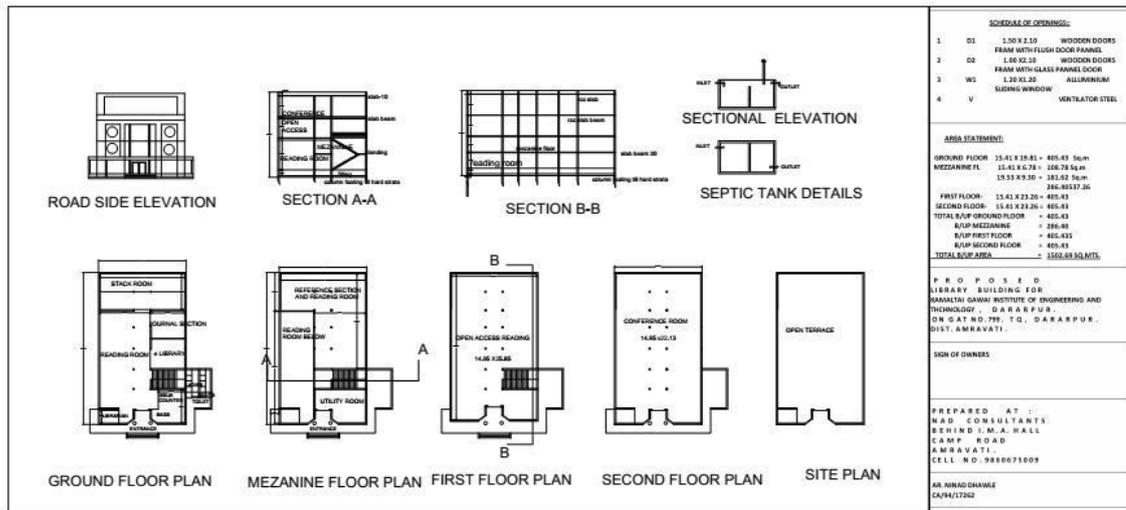
Figure 4.2.2: Floor wise layout of the central library

Working Hours*:*

• The Library is open Monday to Friday: 10.45 am to 5.30 pm

• The Library Open Saturday: 10.45 am to 3.30 pm

• Exam Period : 8 am to 6 pm

• Issue & Return facility in:

• The Stack section operates from 11 am to 6 pm for issue-return facility.

• The Digital library facility is available college timing.

4.2.3 How does the library ensure purchase and use of current titles, print and e-journals and other reading materials? Specify the amount spent on purchasing new books, journals and e-resources during the last four years.

Selection and Procurement of Current Titles:

• The librarian sends circular to all the departments for their semester requirements.

• All the staff members indent the requirement of the text books required for that semester through their HODs

• The Librarian will consolidate the requirements from all departments and list will be sent to the principal for sanction.

• For ordering the books Places the vendors.

- After placing the orders, vendors supply the books to the library and the librarian will recommend the payment as per the norms to the principal to clear the bills.

- Apart from the requirements, the library has a collection of materials consisting of books, journals, CDs and e- resources.

- It regularly adds new Journals and Resources to the collection for the benefits & easy access to all the users.

- Back volumes of these journals will be bound and kept in the library.

- The procured books are classified, catalogued and stacked as per the standard procedures

- Books are lent to each student for 8 days and renewal is permitted once. To systematize the process, then Issue books.

- Database of books is created in standard Library Software and OPAC is made available to library

- Book Bank facility is given students. 5 Books are issue per semester.

- Besides technology books, the library also possess 178 literature books.

Use of current titles:

• Current titles are displayed in library as new arrivals. New Arrival Lists are sent to all the departments for further circulation to faculty.

• OPAC is available for students to browse through book lists and check availability.

Print and e-journals:

• Print and e-journals/databases are procured for student benefit. Library provides access to DELNET*, NDL, ASME, J-Gate Database. Journal lists browsing facility is made available to the library easy access to students and faculty.

• Referral services from other sources outside the library are made available on request.

• Users have facility to browse open resources like DOAJ (Directory of Open Access Journals

Table :- 4.5 : Details of facilities and various provisions for Library

Library Holdings	Year-1 (2011-12)		Year-2 (2012-13)		Year -3 (2013-14)		Year-4 (2014-15)		Year-4 (2015-16)		Year-4 (2016-17)	
	No	Total Cost (Rs.)	No	Total Cost (Rs.)	No	Total Cost (Rs.)	No	Total Cost (Rs.)	No	Total Cost (Rs.)	No	Total Cost (Rs.)
Text Books	384	107459	954	321553	418	140383	283	108680	296	84218	165	52756
Reference Books (Regular)	21	4246	59	24814	29	16449	15	9076	31	14904	9	5818
Caste Book bank (SWS)	1116	497890	-	-	-	-	-	-	-	-	1178	651050
Reference Books (SWS)	45	19610	-	-	-	-	-	-	-	-	52	34779
Journals/ Periodicals	62	146294	84	185979	-	-	42	109452	71	175100	-	-
e-Resources	4285	66180	-	-	-	-	-	-	4314	255775	-	-
Newspaper	6	9054	6	9054	6	9045	6	9054	6	9045	6	9045
CDs	74		120				2		15			

4.2.4 Provide details on the ICT and Other tools deployed to provide maximum access to the library collection?

- **OPAC:** Library has "SOUL2.0 application version" as library software and has Online Public Access Catalogue for users browsing.

- **Electronic Resource Management package for e-journals –** The institute has indexed e- journal databases NDL, DELNET*, J – Gate, ASME. They are available to users through internet.

- **Federated searching tools**: Yes. Through DELNET* membership we are accessing goods from institutions across the nation.

- Search can be done by using title of books, author of books, subject, keywords or publisher, edition and Journals through the software (SOUL)

- .Library Website: http://www.kgiet.ac.in/college Website as a separate page.

- **In-house / remote access to e-publications**: The e-resources are ID password based. Wi-Fi connectivity in the campus makes it possible to view e-resources.

- **Library Automation**: SOUL 2.0 application version software is used for library automation and bar-coding is implemented for book transaction.

- **Total Number of computers for public Access:**–There are 10 PCs in Digital Library with One additional PC is kept as OPAC terminal.

- **Total Number of printers for public Access –** 1Nos.

- **Internet bandwidth / speed –** Library has 100 mbps dedicated leased line BSNL.

- **Institutional Repository –** Faculties own notes, published articles, e-books, journals, materials are downloaded and kept available to students

- **Content Management system for e-learning** NPTEL lessons available accessed in the library. Smart Learning way tutorial accessed

- **Participation in Resource Sharing networks / Consortia**): College has membership with DELNET* and NDL membership

4.2.5   Provide details on the following Items:

- Average no. of walk-ins–   : 70-100 per day

- Average number of books issued/ returned   :   50-100 per day

- Number of users (issue) Year   : 20977 last three year

- Ratio of library books to students enrolled   : 5:1

Table: - 4.2 : Average number of books added during last Six years:

Library Holdings	(2011-12)		(2012-13)		(2013-14)		(2014-15)		(2015-16)		(2016-17)	
	No. of books	Total Cost (Rs.)	No. of books	Total Cost (Rs.)	No. of books	Total Cost (Rs.)	No. of books	Total Cost (Rs.)	No. of books	Total Cost (Rs.)	No. of books	Total Cost (Rs.)
Text Books	384	107459	954	321553	418	140383	283	108680	296	84218	165	52756
Reference Books	21	4246	59	24814	29	16449	15	9076	31	14904	9	5818
Caste Book bank (SWS)	1116	497890	----	--	-----	-------	-----	----	---	---	1178	651050
Reference Books	45	19610	-----	---	---	---	----	--	--	---	52	34779

- Average number of login to OPAC   : 20-25 hits per day

- Average number of login to e–resources   : 10-15 per day

- Average Number of e–resources downloaded and printed   : 5-10 per day

- Number of Information Literacy trainings: : 1 per year

- Number of users (reading space)   : 80-100 per day

- Details of Weeding –out of Books and other material : Yet not weeding of books

4.2.6 Give Details of the specialized services provided by the library

- **Manu scripts** –No

- **References** – Yes. A reference section is available with more number of collections of reference books, magazine and journals in the library. And also available GATE books.

- **Reprography** –Yes.

- **ILL (Inter Library Loan)** – Yes, User get facility to borrow books from other institutes.

- **Information deployment and notification**: Notices are displayed on Notice Boards. Hording and Banners are displayed in library. New arrivals are displayed.

- **Download** – Yes, the library has digital library of 10 PCs where in document downloading facility is provided to students.

- **Printing** – Yes. Document printing facility is given to students on request.

- **Reading List / Bibliography compilation**: Yes. Reading Lists and Bibliographies of a particular topic are given to the users on request.

- **In-house/remote access to e-resources**: Yes. Library provides ID, Password based access to all e-resources and open source resources. Students can browse for Open source from anywhere in the campus.

- **User Orientation and awareness** – Library arranges orientation program for First year students and informs them with library rules, e-resources.

- **Assistance in searching databases** – Yes. Library has a separate Digital Library; assistant librarian is helping the user to solve the queries related to e-resources.

- **INFLIBNET/ IUC facilities**: College has used SOUL software made by INFLIBNET

4.2.7 Enumerate on the support provided by the Library staff to the students and teachers of your college.

The central library staff extends the following facilities and services to the users:

- Issue-Return of books

- Book Bank facility

- Inter library Loan Service

- Reference Service

- Reprographic Service

- News Paper Clippings Service

- Syllabus Consultation facility

- Internet browsing facility through Digital Library

- Availability of previous examination question papers

- Periodical Current content service

- Selective Dissemination of Information Service (SDI) is given to users to know about book collection in their specialized subjects.

4.2.8 What are the special facilities offered by the library to the visually/physically challenged persons? (Give Details)

Issue and return counter are located at ground floor. Where necessary, ramp facility is provided at the entrance of the library.

4.2.9 Does the library get feedback from its users? If yes, how is it analyzed and used for improving the library services. (What Strategies are deployed by the library to collect feedback from users? How is the feedback analyzed and used for further improvement of the Library services?)

A suggestion box is also kept for judging students requirement. The students can meet the Librarian directly at any point of time and give their feedback and complaints.

DELNET*- Under Process

4.3 IT Infrastructure

4.3.1. Give details on the computing facility available (hardware and software) at the institution.

The institute has adequate hardware and software facilities at all the

departments of the institute. The details of department wise hardware and software facilities are given in Table 4.2.1 (a) and 4.2.1 (b).

Table No.4.7(a): Hardware and Other peripherals

Sr. no.	Name Of Department	Name Of Laboratory	No. Of PC in Lab	Other Peripherals
1	**Applied Science and Humanities**	HOD Cabin	1	Laser Printer -01 Scanner 01
		COMPUTER PROGRAMMING	40	-
2	**Computer Science & Engineering**	Lab-201	21	Switch Rack
		Lab-202	20	Switch Rack
		Lab-204	20	Switch Rack
		Lab-205	21	Switch Rack, Projector, Canon LBP Printer
3	**Mechanical Engineering**	HOD Cabin	1	Laser Printer -01
				UPS- 01
		CAD Lab	45	Laser Printer -01
				25 Port Switch – 02
				UPS- 01
		Theory of Machine Lab	1	-
		Energy Conversion Lab	1	-
		Heat Transfer Lab	1	-

		Mechanical Measurement Lab	1	Laser Printer- 01
		Production Technology Lab	1	-
		RAC Lab	1	-
		Fluid Power Lab	1	-
		Mechatronics Lab	2	-
4	**Electronics & Tele Communication Engineering**	Microprocessor and Microcontroller Lab	1	Microprocessor Trainer Kits, Digital Trainer Kits, Microwave Lab Bench
		Electronics Devices and Circuit Lab	1	DSO, CRO, Analog Digital Trainer, Analog Lab Bench
		Digital Integrated Circuit Lab	1	Digital Trainer Kits
		Communication Engineering Lab	1	EPABX, CRO, Optical Communication Trainer, Function Generator
		Power Electronics Lab	1	Power Electronics Trainer, Power Semiconductor Application, Power Electronics XPO-PE Invert Panel, Optical Transducer trainer lit, Pressure transducer Trainer
		Digital Signal	16	-

		Processing Lab		
5	**Civil Engineering**	HOD Cabin	1	Printer
		BCM & Geology Lab	1	-
		Staff Room	4	-
		COMPUTER SCIENCE Lab	7	-
6	**Electrical Engineering**	HOD Cabin	1	Laser Printer-01
		Computer Lab	20	-
		Control System Lab-1	1	-
		Power Electronics Lab	1	LCD Projector-01
		Machine Lab	1	-
		Electrical Engineering Lab	1	-
		Electrical Measurement Lab	1	-
		Network Analysis & Switchgear & Protection Lab	1	-
7	**English Lab**	Computers	20	-
8	**Library**	Computers	15	-
9	**Administrative office**	Computers	8	-

| 10 | I T Department | Computers | 54 | - |

Total number of Computer Systems available: 336 .The configuration details of all the computers are given in Table 4.3.1 (b).

Table No. 4.7(b): Number of Computer Systems

Sr. No	Name Of Department	No. Of PC in Lab	Configuration
1	Applied Science and Humanities	40	1 GB DDR 800 ,CPU 2.8 GHZ 800 MB, OPTICAL MOUSE, 104+14 BUTTON KEYBOARD, 160 GB HDD, 22 X DVD ERITER, MOTHER BOARD, KIT- PRELOADED WIN 7 STARTER (32 BIT), 47 CM (18.5 INCH) LCD MONITOR)
2	Computer Science & Engineering	21	OS: Windows-7, Processor: Pentium Dual Core E-5400 @ 2.70 GHz, Memory: RAM - 1 GB DDR2 Hard Disk: 160 GB SATA,
		20	OS: Linux [Ubuntu 14.4], Processor: Pentium Dual Core E-5400 @ 2.70 GHz, Memory: RAM- 1 GB DDR2 Hard Disk: 160 GB SATA
		20	OS: Windows-7, Processor: Pentium Dual Core E-5400 @ 2.70 GHz, Memory: RAM -1 GB DDR2 Hard Disk: 160 GB SATA
		21	OS: Windows-7, Processor: Pentium Dual Core E-5400 @ 2.70 GHz, Memory: RAM - 1 GB DDR2 Hard Disk: 160 GB SATA

3	Mechanical Engineering	1	IBM Server , Chassis: Pedestal
			CPU: 3.1GHz Core i3-2100
			Memory: 2GB DDR3, expandable to 32GB
			Storage: 250GB IBM SATA cold-swap hard disk (max 4)
			RAID: embedded IBM Serve RAID C100, Array support: RAID0, 1, 10, Expansion: 4x PCI-e, Network: 2x Gigabit, Management: embedded IMM2 Basic, DVD RW, Power: 350W fixed supply, Software: Windows server 2008 R2 Enterprise Edition.
		5	Lenovo Think WorkStation
			Intel Xeon E3-1235, 3.20 GHz, 4GB (1X4) Non ECC RAM, 1 GB Graphics Card ,1 TB SATA HDD, Integrated Intel HD P3000 DVD RW, Pre-Loaded Win Pro 7 64 Bit.
		20	Lenovo Think WorkStation
			Intel Core I3 2100, 3.1 GHz, 4GB (1X4) Non Ecc RAM, 1 GB Graphics Card , 500 GB ,SATA HDD, Integrated Intel HD P3000.
		29	Lenovo Think WorkStation
			Intel Core I3 2100, 3.1 GHz, 4GB (1X4) Non Ecc RAM, , 500 GB ,SATA HDD, Integrated Intel HD P3000
		2	24 port 10/100 Mbps switch with 2 nos. of SFP slots for fiber connectivity.

		1	16 port 10/100 Mbps switch with SFP slots for LAN connectivity.
		2	UTP CAT-6 Cable Box
		2	LBP2900B- True 600 x 600dpi resolution, (2400 x 600dpi equivalent with Automatic Image Refinement Technology), Dimension - 370 x 251 x 217mm, Canon Cartridge 303,Uses PC memory (standard 2MB on-board)
		1	HP Laser Jet Printer, True 600 x 600 dpi with HP Resolution Enhancement technology (REt). 1200 dpi effective output quality (600 x 600 x 2 dpi with HP Resolution Enhancement technology (REt)). Processor 234 MHz , Memory 2 MB RAM, Dimensions (WxDx H) 14.6 by 9.5 by 8.2 in (370 by 242 by 209 mm)
4	Civil Engineering	1	Processor Intel R, Pentium R, CPU G645, 2.9 GHz, Installed Memory 2GB (1.82 GB Usable), 64 bit operating system
		1	Processor Intel R, Pentium R, CPU G645, 2.9 GHz, Installed Memory 2GB (1.82 GB Usable), 64 bit operating system
		1	Processor Intel R, Pentium R, CPU G2030,@ 3.00 GHz, Installed Memory 2GB (1.88GB Usable), 32 bit operating system

			1	Processor Intel R, Pentium R, CPU G2030,@ 3.00 GHz, Installed Memory 4 GB (3.44 GB Usable), 32 bit operating system
			1	Processor Intel R, Pentium R, Dual core CPU E5500 @2.80 GHZ 2.80GHZ, Installed Memory 1GB, 32 bit operating system
			1	Processor Intel R, Pentium R, CPU G2030,@ 3.00 GHz, Installed Memory 4 GB (3.40 GB Usable), 32 bit operating system
			1	Intel R, Pentium R, CPU G645, 2.9 GHz, 2.89 GHz,v1.82 GB of RAM,
			3	Processor Intel R, Pentium R, CPU G645, 2.9 GHz, Installed Memory 2GB (1.82 GB Usable), 32 bit operating system
			3	Processor Intel R, Pentium R, Dual core CPU E5800 @3.20 GHZ 3.20GHZ, Installed Memory 1GB, 32 bit operating system

5	Electrical Engineering	20	Rating 3.1,Processor :Pentium(R) Dual-Core CPU E5500 @2.80GHZ, RAM:1GB
			System Type:32-bitoperating system
		3	Rating 1.0,Windows experience index, processor intel ®,Pentium(R) CPU G645@ 2.90GHZ 2.90GHZ RAM 2.00GB(1.82GB usable) ,system type 32bit operating system
		1	Rating 3.2, Windows experience index, RAM 1.00GB, system type 32 bit operating system.
		1	Rating 3.3, Windows experience index, processor Pentium(R),dual core CPU EF800@ 3.20GHZ 3.20GHZ,system type 32 bit operating system.
		1	Rating 2.8, Windows experience index, processor Pentium (R) dual core CPU E5300 @ 2.60GHZ 2.60GHZ.RAM 1.00 GB,system type 32 bit operating system.
		1	Rating 1.0, Windows experience index, processor Pentium (R) dual core CPU E5300 @ 2.60GHZ 2.59GHZ.RAM 512 MB (503 usable),system type 32 bit operating system.
6	Electronics & Tele Communication Engineering	20	Pentium R Dual Core Processor, 3.20 GHz, 1 GB RAM, 32 Bit OS

7	English Lab	20	OS: Windows-7, Processor: Pentium Dual Core E-5400 @ 2.70 GHz, Memory: RAM -1 GB DDR2 Hard Disk: 160 GB SATA
8	Library	15	OS: Windows-7, Processor: Pentium Dual Core E-5400 @ 2.70 GHz, Memory: RAM - 1 GB DDR2 Hard Disk: 160 GB SATA
9	Administrative office	8	OS: Windows-7, Processor: Pentium Dual Core E-5400 @ 2.70 GHz, Memory: RAM -1 GB DDR2 Hard Disk: 160 GB SATA
10	I T Department	48	OS: Windows-7, Processor: Pentium Dual Core E-5400 @ 2.70 GHz, Memory: RAM - 1 GB DDR2 Hard Disk: 160 GB SATA

Total computers in the college from department 336

Computer-student ratio: UG –1:4

- Standalone facility :Nil

- LAN facility: Available

- Wi-Fi facility: Available throughout the campus

- Licensed software: The list of licensed application software is given in Table 4.3.1(c).

Table No. 4.7 (c) : List of Licensed Application Software

Sr. No.	Name of department	Name of Software	Approximate Cost	Nos of Users
1	Computer Science & Engineering	Microsoft Windows 8	2050789	175
		Ubuntu 14.4	670	
		Matlab	351323	10
		Microsoft Visual Studio	76011	
		Keil	91000	
		Xilinx	135000	
		Turbo C/C++ 3.0	2680	
		JDK 1.6		
		Prolog		
		Visual Paradigms	67000	
		Adobe Flash	43193	
		Adobe Photoshop CS4	62	
		Movie Maker		
		MS Office Suite 2013	268404.75	50
		MS Office Suite 2015		
		Nero Platinum 2016	5092	
		Net protector	45000	100

		WinRAR	500	
		Foxit PDF Reader Std	5963	
		Google Chrome		
		Oracle 10g		
		Ling phone	18263	
		Proteus	75000	
		Dip Trace	130910	
2	Mechanical Engineering	AutoCAD R 2011 Full Pack Upgraded to AutoCAD R16	2,80,000=00	
		Witness CIM/FMS Solution.	90,000=00	
		Automation Studio (IFP Pack)	1,15,000=00	
		RoboCell Software	95,000=00	
		Virtual CNC Machining – do NC Lathe	80,000=00	
		Virtual CNC Machining– do NC Mill	80,000=00	
		CADEM Virtual Manufacturing Solution. CAPSCAM	1,40,000=00	
		Mechanical Inventor	By AICTE	
		ANSYS R17.2	2,75,000=00	
3	Electrical	MATLAB Software-9.0	150000	

	Engineering	C		
		C++	2680	

Number of nodes/ computers with Internet facility :

The department wise breakup of computers with internet facility is given in Table 4.3.1. (d)

Table No. 4.7(d): Number of nodes/ computers with Internet facility

Sr. No.	Department	Number of nodes / computers with Internet
1.	Civil Engineering	13
2.	Computer Engineering	82
3.	Electronics & Telecommunication Engg.	21
4.	Mechanical Engineering	55
5.	Electrical Engineering	27
6.	First year Engineering	41
7.	English lab	20
8	Administrative office	8
9	Library	15
10	Information Technology	54

4.3.2 Detail on the computer and internet facility made available to the faculty and students on the campus and off-campus?

Each department has its own computing facility for faculty and students and all the computers are provided with internet facility. The details are as follows:

- College campus is connected to central UTM device through LAN which provides internet facility of 10 mbps speed Broadband or 100 MBPS Lease line & 2 MBPS WI-FI

- Wi-Fi facility with band width of 2MBPS is available 24 ×7.

- Internet Browsing Centre is available for the students during working Hrs. of college.

4.3.3 What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?

Institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities:

- ITinfrastructureisupgradedasperrevisioninsyllabusaswellastechnologicalinnovations.

- Adequate funds are made available in the annual budget for the procurement/up-gradation/ maintenance and renewal of IT infrastructure.

- PowerbackuprequirementsfortheITinfrastructurefacilitiesisreviewedperiodicallyand provisions are made for fulfilling the additional requirements.

- IT infrastructure facilities are under AMC.

Strategies for deploying and upgrading the IT infrastructure and associated facilities

- IT infrastructure is upgraded as and when it is to be made compatible with the latest innovations:

  - LED monitors.

  - Incorporating changes in networking system so as to be in line with latest innovations in networking field.

- Appropriate budget provision is made available in annual budget as per the requirement of the department.

4.3.4 A purchase committee is formed for independent review and evaluation of purchasing requirements of individual departments.

Items	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17

	Budgeted Amount (Lacs)	Actual Expenses (Lacs)	Budgeted Amount (Lacs)	Actual Expenses (Lacs)	Budgeted Amount (Lacs)	Actual Expenses (Lacs)	Budgeted Amount (Lacs)	Actual Expenses (Lacs)	Budgeted Amount (Lacs)	Actual Expenses (Lacs)	Budgeted Amount (Lacs)	Actual Expenses (Lacs)
Computers	30	27.27	25	21.72	35	33.6	Nil	Nil	12	11.8	Nil	Nil
Accessories (Equipment)	35	34.20	65	61.59	55	51.68	35	33.40	20	18.28	Nil	Nil
Software		Nil		Nil		Nil		Nil		3.5	6.65	

4.3.5 Provide details on the provision made in the annual budget for procurement, up-gradation, deployment and maintenance of the computers and there in the institution (Year wise for last four years)

Table 4.8: Provision in the annual budget for procurement of Computers

4.3.6 How does the institution facilitate extensive use of ICT resources including development and use of computer-aided

4.3.6 Teaching/ learning materials by its staff and students?

- Faculty members make use of power point presentation for effective lecture delivery.

- Most of the class rooms are well equipped with LCD projectors.

- All faculty rooms have the facility of Internet.

- The institute maintains a data base of objective questions for all subjects which helps to know the depth of understanding of students through online examinations.

- The faculty and students can access e – resources through digital library.

- Mock online exam is conducted in computer department for preparation of competitive examinations or campus interviews.

- Staff and faculty are provided with institute email ID's for communication.

4.3.7 **Elaborate giving suitable examples on how the learning activities and technologies deployed (access to on-line teaching- learning resources, independent learning, ICT enabled classrooms/learning spaces etc.) by the institution place the student at the center of teaching-learning process and render the role of a facilitator for the teacher.**

- Content beyond syllabus is covered by conducting workshops and guest lectures by experts from the industry.
- Industrial visits are organized for independent learning and to gain the latest technical knowledge in the industry.
- Participation of students in national and international level project competitions like Robotics, SAE BAJA, Techfest, Prayukti, Prajwalan, etc.
- Students are exposed to Spoken tutorials program -an initiative by IIT Mumbai, NPTEL, for independent learning.
- E-Resources access is made available for independent learning to all the students and faculty through digital library and laboratory computer facility.
- The institute provides online NPTEL video material for students.
- Webinars in the various domains are arranged for the students.
- Students prepare their final year project reports using software like Latex.

4.3.8 **Does the Institution avail of the National Knowledge Network connectivity directly or through the affiliating university? If so, what are the services availed of?**

National Digital Library NDL Website

Table No. 4.9 : Maintenance of Campus Facilities Amount in Lacs

Sr. No	Year Facilities	2011-12		2012-13		2013-14		2014-15		2015-16		2016-17
		Budget	Expense	Budget	Expenses	Budget	Expenses	Budget	Expenses	Budget	Expenses	Budget
1	Building	2	1.5	2.5	2	2.5	2.1	2.8	2.5	3	2.5	3.5
2	Furniture			0.3	0.25	0.4	0.35	0.5	0.45	0.85	0.78	1
3	Equipment	1.8	1.6	2.5	2	2.5	2.1	2.8	2.5	3	2.8	3
4	Computers	0.2	0.15	2.8	2	2.5	2.1	2	1.8	2.2	2	1.5
5	Vehicles	6	5	6	5	6	5	6	5	6	5	6
6	Library	0.15	0.1	0.18	0.15	0.2	0.15	0.25	0.2	0.25	0.2	0.2
7	Any other /sport	0.3	0.25	0.35	0.3	0.4	0.35	0.4	0.35	0.4	0.35	0.45
	Total	10.45	8.6	14.63	11.7	14.5	12.15	14.75	12.8	15.7	13.63	15.65

4.4 Maintenance of Campus Facilities

How does the institution ensure optimal allocation and utilization of the available financial resources for maintenance and up keep of the following facilities (substantiate your statements by providing details of budget allocated during last four years)?

A review of the requirements of infrastructure is done before the commencement of each academic year. Details of the budget allocated for infrastructure and others are shown below for the last four years:

4.4.1 What are the institutional mechanisms for maintenance and upkeep of the infrastructure, facilities and equipment of the college?

- Class Rooms, Seminar hall and tutorial rooms: All these rooms are cleaned by departmental peon and this activity is monitored by departmental technical assistant.

- Laboratories: Faculty in-charge &technical assistant look after the maintenance of each laboratory. The funds available from the budget head is used to repair of any break-down item. When new purchase is to be made, then faculty in charge proposes the annual requirement and provisions for the same are accordingly in the budget. For consumable items, budget is prepared by staff in charge and technical assistant.

- Equipment: Preventive maintenance schedule is prepared by the faculty in charge &maintenance is carried out regularly as per schedule and this activity is monitored by staff in-charge.

- Computers: All the computers and peripherals are checked by faculty in charge and technical assistant for any problems once in a semester before beginning of the academics. Any maintenance activity, if required is carried out and required consumables are purchased. Maintenance activities and consumables purchased are entered in the respective dead stock registers.

- Central library: The Central Library of the institute is well maintained and each section in it is taken care by an assigned person for cleanliness. Electric fittings, equipment like photocopy machine, computers, printers, and scanners are given for maintenance from time to time. Old machines are sending to scrap with set procedure of the institute. Book Stacks are thoroughly cleaned once in a week. The books are weed out as per the norms and procedure laid down by the society. The book binding is done to keep them in condition of use. The stock verification is done as a part of regular maintenance

- Departmental library: Faculty members of the dept. can borrow the books from dept. library & students in their free time can make use of the

books available in the department.

- Civil maintenance is looked after by estate office for minor maintenance work and through civil contractor for major maintenance.

- Hostel maintenance is carried out by two different teams of housekeeping staff separately for girls' hostel and boy's hostel.

- Mess maintenance: A committee of faculty members and students is formed to look after the quality of food and hygienic in the mess.

- Garden maintenance is looked after by gardening staff under the supervision of estate office.

- Pest control is carried in the hostels at regular intervals by external agency under the supervision of hostel warden

4.4.2 How and with what frequency does the institute take up calibration and other precision measures for the equipment/ instruments?

The faculty in-charge of a particular laboratory ensures that the equipment/instrument is in working condition. The departments take the initiative to calibrate the precision instruments for their optimum and assured performance, once in a year. The calibration of all the precise instruments is done annually as part of Annual Maintenance Contract.

Table No.4.10 List of equipment with the cost of annual maintenance contract

Sr. no.	Name of machine and required item	No's	Amount (per machine per years)	Total amount
	Mechanical Department (Workshop)			
1	Lathe Machine yearly maintenances per machine such as oil, cotton, brush and tool servicing		20000/-	20000
2	Milling machine per years		2000/-	2000
3	Bench grinder per years		1000/-	1000
4	Drilling machine per years		1000/-	1000
	Carpentry shop			
5	Wood lathe	10	1500/-	15000
6	Bench vice	10	100/-	1000
7	Hand cutter machine	1	500/-	500
8	Hand drill machine	1	500/-	500

	Fitting Shop			
9	Drill machine	1	1000/-	1000
10	Power Hacksaw machine	1	1500/-	1500
11	vice	23	100/-	2300
	Sheet Metal Shop			
12	Shearing Machine	1	1000/-	1000
	Molding Shop Smithy Shop			
13	Smithy earth with blower	2	500/-	1000
14	Cutter machine	1	500/-	500
	Welding Shop			
15	Arc welding machine	2	1000/-	2000
16	Co_2 welding machine	1	2000/-	2000
17	S Pot welding machine	1	1000/-	1000
18	Gas welding machine	1	2000/-	2000
19	Drill machine	1	1000/-	1000
20	Bench grinder	1	1000/-	1000
21	Bench vice	6	100/-	600
	Civil Department			
1	Universal testing Machine	1	20000/-	20000
2	Compression testing Machine	1	15000/-	15000
	Department of Electronics & Telecommunication Engineering			
1	CRO yearly maintenances such as Power supply, CRO probes, push buttons, Display	9	500/-	4500
2	Function Generator per years	7	200/-	1400
3	Microwave Bench (Clystron Mount) per years	1	2000/-	2000
4	8085, 8086 kits maintenance per years	12	500/-	6000
5	Strain Gauge kit maintenance per Year	1	500/-	500-
6	Pressure Gauge kit maintenance per Year	1	500/-	500-
7	Silicon Controlled Rectifier kit maintenance per Year	2	100/-	200
8	TRIAC kit maintenance per Year	2	100/-	200
9	Falcon Trainer Kit maintenance per Year	4	200/-	800

	Department of Electrical Engineering			
1	Oil Test Kit	1	1000	1000
2	IDMT Over current Relay	1	500	500
3	Differential Relay	1	1000	1000
4	Definite Time Reverse Power Relay	1	1000	1000
5	Distance Protection Relay	1	2000	2000
6	Simulation Panel (Differential Protection)	1	2000	2000
7	All Electrical Machines (Single phase, three phase, DC)	8	15000	15000
8	Network Analysis All theorems 1Superposition theorem 2.Thevenins theorem, 3.Maximum power etc. 4. Voltmeter 5.Ammeter 6.Tachometer 7. Galvanometer	7	6000	6000
9	Microprocessor ,Power Electronics	1	3000	3000
10	Other maintenance of the dept.		15000	15000
	Department of Computer Science &Engineering			
1	Computer Systems	95	700	66500
2	Printers	1	3000	3000
3	Scanners	1	500	500
4	Projector (with screen)	1	1000	1000
5	Switch	4	600	2400
6	Fans	25	250	6250
7	Tube Lights	13	150	1950
	First year Department			
1	CRO	1	2000	2000
2	Hall effect set-up	1	1000	1000
3	Redwood Viscometer-1 & 2	4	500	2000
4	Weighing machine	2	500	1000
5	Consumable Items	1	10000	10000
			Total Amount	**252100**

4.4.3 What are the major steps taken for location, upkeep and maintenance of sensitive equipment (voltage fluctuations, constant supply of water etc.)?

- Maintenance of academic infrastructure and facilities
- Fire extinguishers are provided at multiple strategic locations and maintenance is done through AMC
- Floor indication boards are given at strategic locations.
- Electricity:-3-PhaselinewithHT900kW, 800kVAelectricity supplies from Maharashtra State electricity Distribution Co. Ltd.
- Power Backup: - Power back up of two generators from Mahindra Genset 36 KVA and 66KVa capacity
- Water supply:-Water is available from Shahanoor dam also there is overhead tank of 30,000 liter capacity which is maintained annually.
-

4.4.4 Any other relevant information regarding Infrastructure and Learning Resources

Nil

CRITERION V: STUDENT SUPPORT AND PROGRESSION

5.1 Student Mentoring and Support

5.1.1 Does the institution publish its updated prospectus/handbook annually? If 'yes', what is the information provided to students through these documents and how does the institution ensure its commitment and accountability?

Yes, the institute publishes prospectus annually. The institute also provides online access to brief history of the institute, department wise faculty details, Infrastructural Details, about Academics, Examination, Placements, Alumni, awareness for anti-ragging, achievement of the students, sports, Student Council, Student Training Program, research activities, academic calendars, and syllabus for the benefit of students.

The data to be published in the brochure is collected from various Departments. It undergoes the process of authentication by the Heads of Departments, supporting documents and proofs for which are collected and maintained in the department. It is then processed centrally and validated before it is published.

The brochure contains the following salient features:-

- Mission of the institute
- About program and Departmental information
- Admission process
- Best practices
- Memoranda of Understanding
- Placement activities
- Recruiters
- Infrastructural Facilities
- Library information
- Hostel information
- Alumni association
- Student achievements
- University rankers
- Students Council

In addition to the above, following information is also available online in the form of a website

- Institutional & Departmental Profiles

- Co-curricular , Extracurricular & Sports activity Calendars
- Photo Gallery of Events
- Innovation & Research Activities
- Events, visits of eminent personalities
- URL Link of important Education and Employment Sites
- Institute URL http://www.kgiet.ac.in/

The institute is committed to the information provided in the prospectus in all respects & strictly adheres to the time schedule indicated in the prospectus thereby ensuring the accountability. The institute prepares an annual academic report which reflects the execution of the planned activities and is authorized by the Local Monitoring Committee (LMC).

5.1.2 Specify the type, number of institutional scholarships / freeship given to the students during the last four years and whether the financial aid was available and disbursed on time?

- The institute provides all the scholarships offered by the Government.
- The institute allows students to pay their fee in installments.
- The institute provides fee waiver to the students who are not in a position to pay the fees and request for concession.
- The institute provides fee waiver to the Girl Students to Gender Equality.
- Book bank facility is provided to all year students.
- Every year endowment prizes are given by the institute to the toppers.

5.1.3 What percentage of students received financial assistance from state government, central government and other national agencies?

- Scholarships / free ships are given by Government of Maharashtra on the basis of parental annual income. The Table 5.1 shows the financial assistance in the form of scholarship given to UG students by the Govt. of Maharashtra.

Table 5.1: Financial Assistance (scholarship/freeship) to UG students by state Govt.

Academic Year	Category	Total No of students	No. of students sanctioned Financial Assistance		Total No. of scholarship holders	% of students receiving financial assistance
			Renewals	New		
2016-17	SC	215	127	52	179	83%
	ST	10	4	5	9	90%
	VJNT	69	37	22	59	86%
	OBC	458	237	101	338	74%
	SBC	14	7	6	13	93%
	Minority	70	35	34	69	99%
2015-16	SC	200	81	90	171	86%
	ST	10	2	4	6	60%
	VJNT	60	25	27	52	87%
	OBC	472	175	152	327	69%
	SBC	11	5	3	8	73%
	Minority	57	17	40	57	100%
2014-15	SC	178	102	40	142	80%
	ST	13	3	10	13	100%
	VJNT	47	33	12	46	98%
	OBC	406	234	103	337	83%
	SBC	15	9	3	12	80%
	Minority	63	15	48	63	100%
2013-14	SC	139	79	51	130	93%
	ST	3	1	1	2	67%
	VJNT	48	27	19	46	95%
	OBC	348	214	98	312	90%
	SBC	12	9	3	12	100%
	Minority	27	3	24	27	100%
2012-13	SC	144	103	30	133	92%
	ST	3	1	1	2	67%
	VJNT	47	40	7	47	100%

	OBC	416	294	65	359	86%
	SBC	19	14	3	17	89%
	Minority	20	12	8	20	100%
2011-12	SC	190	137	49	186	98%
	ST	4	2	0	2	50%
	VJNT	68	51	15	66	97%
	OBC	572	396	161	557	97%
	SBC	26	21	4	25	96%
	Minority	31	18	13	31	100%

The Table 5.2 shows the financial assistance in the form of scholarship given to UG students under Minorityrity Scholarship by the Govt. of Maharashtra

Table 5.2: Minorityrity Scholarships offered to UG students by the state government

Sr. No.	Academic Year	Religion	Total No of Students	No of Sanctioned Scholarship		Total No of Scholarship Holders	% of students receiving financial assistance
				Renewal	Fresh		
1	2011-12	Muslim	23	14	9	23	100%
		Buddhist	8	4	4	8	
		Total	**31**	**18**	**13**	**31**	
2	2012-13	Muslim	11	5	6	11	100%
		Buddhist	9	7	2	9	
		Total	**20**	**12**	**8**	**20**	
3	2013-14	Muslim	14	3	11	14	100%
		Buddhist	13	0	13	13	
		Total	**27**	**3**	**24**	**27**	
4	2014-15	Muslim	23	9	14	23	100%
		Buddhist	40	6	34	40	
		Total	**63**	**15**	**48**	**63**	
5	2015-16	Muslim	27	6	21	27	100%
		Buddhist	29	11	18	29	
		Christian	1	0	1	1	
		Total	**57**	**17**	**40**	**57**	

6	2016-17	Muslim	46	20	26	46	98.57%
		Buddhist	23	14	8	22	
		Christian	1	1	0	1	
		Total	**70**	**35**	**34**	**69**	

The Institute also admits the students under TFWS (Tuition Fee Waiver Scheme) scheme of Government of Maharashtra. The details are given in Table 5.3.

Table 5.3: TFWS (Tuition Fee Waiver Scheme)

Year	No. of students getting TFWS	Percentage of Students	Total Amount (Rs)
2016-17	25	1.62	1,69,811/-
2015-16	44	2.61	2,70,146/-
2014-15	43	2.55	2,19,204/-
2013-14	38	2.26	1,57,100/-
2012-13	24	1.42	80,168/-
2011-12	07	0.41	21,275/-

5.1.4 What are the specific support services/facilities available for? :

Students from SC/ST, OBC and economically weaker sections
- The facility of part payment of fee is provided to the economically weaker students.
- SC/ST, OBC and EBC students are given fee concession by the Government.
- Social Welfare Department-Government of Maharashtra provides book bank scheme to SC/ST students.

Students with physical disabilities
   The institute provides the following facilities to the differently abled students
- Preference is given for hostel / in campus accommodation.
- Extra time is given during theory and practical examination.
- Lecture and Examination halls are provided on the ground floor
- Administrative support to avail concessional travel to attend conferences, seminars, industrial visits etc.

Students to participate in various competitions/National and International
- Students are motivated to participate in international competitions like
SAE Baja, ISIE HGC, ISIE ESVC an inter-collegiate International level design competition organized by SAE & ISIE, in which students have been winning laurels for four consecutive years.

- Imperial Society of Innovative Engineers, ISIE, an international level student manufactured car racing competition organized Hybrid Go Kart Competition (HGC) and Electric Solar Vehicle Competition (ESVC) in which students won the different prizes for various categories.

- The institute encourages students' participation in national events like ROBOCON, TechFest, and Summer Training etc. by providing financial sponsorship in the form of travelling allowance (TA), Registration & Entrance fees.

- Participation in inter-university project competitions is encouraged amongst students. This begins with conducting department level project competitions from which the best projects are short-listed and forwarded to national level competitions.

Medical assistance to students: health center, health insurance etc.

- Free Medical checkup at College in campus.

- Free Vaccination Camp is organized in campus.

- Complete medical check-up is provided to all students of the institute when they are admitted to the college.

- Advisory doctor is called in campus whenever required.

- Ambulance/Institute vehicle is available 24 × 7 for emergencies.

- First aid boxes are made available at each department, office, library, workshop, hostel, canteen etc.

Organizing coaching classes for competitive exams

- The institute conducts extra classes through T&P Cell or Resource Person for the interested students appearing for GATE, Campus Recruitment Test and equivalent competitive examinations and provides infrastructural facilities to provide guidance for the same.

- Study material related to GATE and other competitive examinations is made available in the central library.

Skill development (Spoken English, Computer Literacy, etc.)

- The Institute grooms students by giving proper training apart from the regular curriculum, for improving their soft skills.

- Under Training Programme it provides training and practice on:
- Soft Skills
- Technical Fundamentals
- General Aptitude and
- Group Discussion and Interview preparation

- Audio recording of lectures is provided for refreshing concepts. General Aptitude

tests are also conducted. Video lectures by expert faculty are also given.

- The institute organizes various seminars, workshops and guest lectures for the students by experts to enhance their soft skills and to make them aware of the current trends in technologies. Language lab, Internet facility and Wi-Fi connectivity in campus, facilitates students in overall skill development.

Support for "slow learners"

- Students who are at risk of failure and dropout are identified based on the previous semester's performance and are provided with counseling for performance enhancement.
- Mock practical and orals are conducted twice in a semester to improve the performance of slow learners.
- Class teacher also identifies slow learners and provides them counseling and intense coaching.
- Extra assignments, university question papers are given for solving.

Exposures of students to other institution of higher learning/ corporate/business house etc.

- Workshops, seminars and guest lectures are arranged for career guidance which motivates students for higher education & placements.
- Students are encouraged to be a part of industrial visit through which they get exposure to work with the professionals & industry experts of their domain.
- Industrial visits and internships in leading Industries and corporate houses are arranged for students which give them practical exposure.
- Collaboration with industries is done so as to benefit the students in terms of recent developments.
- Letters of Recommendation & Transcripts are provided to the students to promote higher studies.
- National Level Technical Event "Prayukti" is organized alternate year in which students participate in various technical events.

5.1.5 Describe the efforts made by the institution to facilitate entrepreneurial skills, among the students and the impact of the efforts.

- The institute has a very active Training & Placement cell which organizes expert lectures conducted by Industrialists & experienced Professionals to develop entrepreneurial skills among the students.

- The Institute has organized various Programs, awareness drives for Entrepreneurship Development.

5.1.6 Enumerate the policies and strategies of the institution which promote participation of students in extracurricular and co- curricular activities such as sports, games, Technical activities, cultural activities etc.

- The institute organizes two mega events INNOVISION & PRAYUKTI thereby promoting students for participating in various extracurricular activities.
- The necessary facilities are provided.
- The sports and cultural committees arrange and coordinate the extra-curricular activities.
- Programs are conducted with professional societies like ISTE,SAE etc
- Participation is encouraged in all activities by felicitating worthy students.

Policies & Strategies for Extra Curricular (Cultural and Sports) Activities

- Students willing to participate in extra-curricular activities have to undergo physical fitness and screening in which they are shortlisted for the intercollegiate and other competitions to represent the institute.
- Students are provided with equipment's and infrastructural facilities like gymnasium, basket ball court etc.
- Institute gives concession in attendance for students participating in sport activities and they are appreciated with certificates/trophies.

Policies & Strategies for Co-curricular Activities

- Institute arranges paper presentation competitions, Mega Technical event, Project exhibitions, to promote the students participation in such activities.
- Participation in state-level and national-level events is encouraged by giving attendance concession and financial support.
- They are provided with facilities like laboratories, library reference facilities and guidance for such activities.

Outcomes

- The institute achieves sportsmanship, physical and mental fitness amongst students by encouraging their overall development and create awareness about global sports events.
- By giving equal platform to all the students as per their inherent skill set to develop the spirit of unity, team work, coordination, creativity, confidence, self discipline,

moral & ethical values amongst all students.

5.1.7 Additional academic support, flexibility in examinations

To ensure active participation of students in sports and extracurricular activities,

- Attendance exemption (with prior approval) is given.
- Rescheduling of examination is done for the national & international sports persons.
- Provision for adjustment of laboratory work and conduction of extra lectures on topics missed by the students due to participation in various events.

5.1.8 Enumerating on the support and guidance provided to the students in preparing for the competitive exams, give details on the number of students appeared and qualified in various competitive exams.

The Institute motivates students for higher studies and research work. Library is open beyond college hours for the benefit of students. Students are aptly guided by the teachers and counseled for the right strategies in preparing for these examinations. Attendance exemption is given to students for such examinations.

5.1.9 What type of counseling services are made available to the students (academic, personal, career, psycho-social etc.)

- *Academic*: The Institute has a guardian teacher scheme who counsels the students regularly and looks after their academic and career related issues. Class Teachers, Subject Teachers, HoD's also play a vital role in this regard.
- *Career*: Institute has a Training and Placement Cell which counsels the students and gives them information about employment/placements. The cell organizes career guidance and personality development programs like Training Program. Institute has a student's overseas cell in which students who wish to pursue higher studies abroad are provided with guidance and counseling for competitive exams.
- In addition, the institute arranges various social welfare programs like Blood donation camps which make them socially aware. They observe the activities which make them aware of social responsibilities.

5.1.10 Does the institution have a structured mechanism for career guidance and placement of its students? If 'yes', detail on the services provided to help students identify job opportunities and prepare themselves for interview and the percentage of students selected during campus interviews by different employers (list the employers and the programs).

Yes, The Institute has a structured mechanism to make the students employable and also to help them choose the career of their interest.
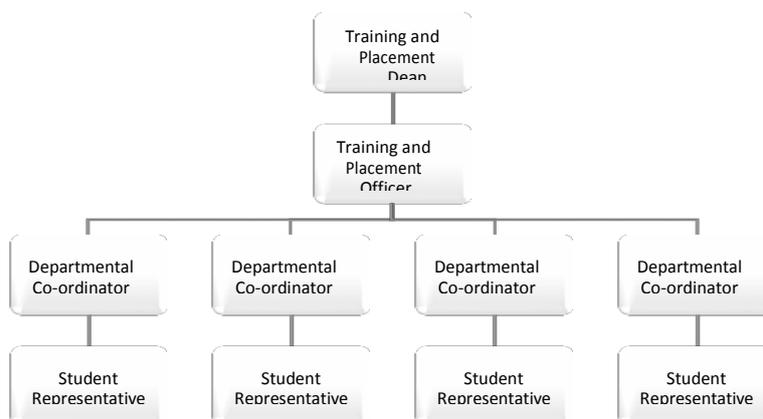
- The cell is headed by a Principal with an institute level training and placement officer who co-ordinates with various department level faculty coordinators for its activities.

- Institute organizes soft skill development programs from first year onwards. The faculty and experts thereby guide students to explore various career opportunities by inculcating necessary skills in them.

- The institute encourages the students to take up internships during winter and summer vacation. The Table 5.5 shows the summary of companies visited to the campus placement and number of students selected for the last four academic years.

Table 5.5- Summary of number of students placed

Placement						
Branch	**2011-2012**	**2012-13**	**2013-14**	**2014-15**	**2015-16**	**2016-17**
CSE	9	12	8	5	2	1 **
EE	-	NA	11	3	6	1 **
EXTC	6	18	21	12	3	-**
IT	15	5	3	1	-	-**
ME	-	14	21	16	7	-**
Total	**30**	**49**	**64**	**37**	**18**	**2 ****

** Shows number of students placed till date.
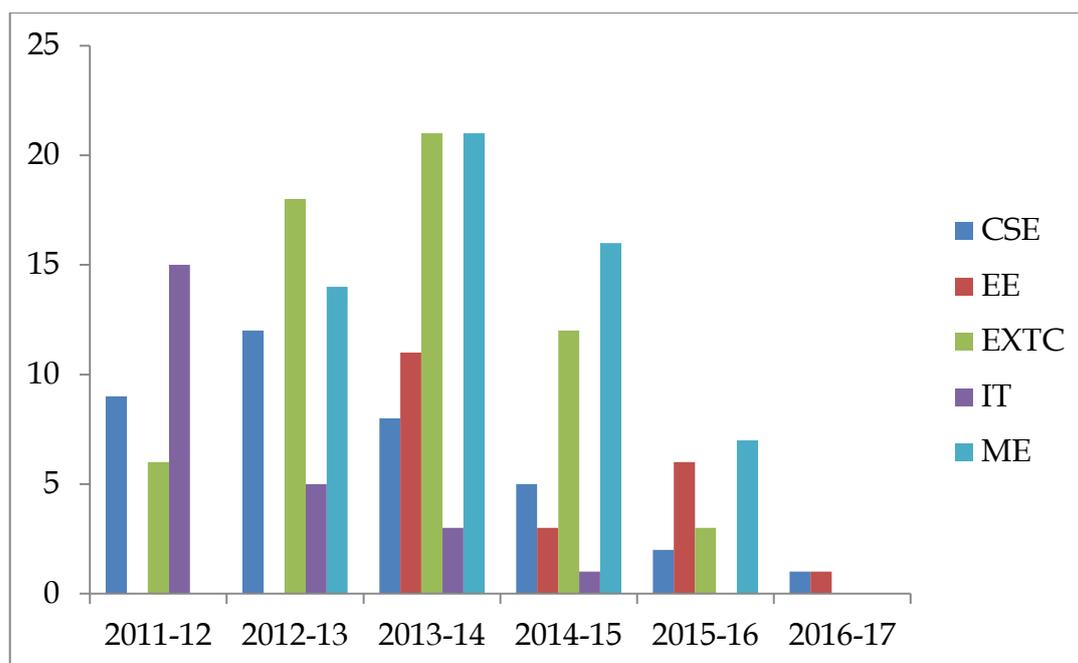
The above graph depicts number of students placed during successive years.

5.1.11 Does the institution have a student grievance redressal cell? If yes, list (if any) the grievances reported and redressed during the last four years.

- Yes, the institute has a Student Grievance Redressal Cell comprising of Principal, Faculty members and student representatives.
- Students' personal & academic grievances are taken care of by the guardian teacher, Class Teacher & the higher authorities if needed.
- The examination department of the institute solves student's academic grievances pertaining to university results, revaluation process etc.
- Failed students are counseled to improve their performance.

  Some of the grievances reported in last four years are

- Additional Internet facility
- Extending the working hours of the library
- Better catering service from the canteen and Hostel Mess
- Purified Drinking Water facility

  Grievances mentioned above are redressed by the cell with due representation to the management.

5.1.11 What are the institutional provisions for resolving issues pertaining to sexual harassment?

- The institute has adopted the guidelines laid down by the Honorable Supreme Court

of India, for woman harassment in compliance with the Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act, 2013. The authority refers the matter to Women Cell which has a representation of Principal and lady representatives. The cell resolves the issues by taking proper disciplinary actions. The frequency of the meeting is based on the need and complaints received.

- The institute involves lady faculty and girl student representatives, in all students and faculty activities who closely monitor these activities and if necessary give feedback to the concerned authority.

5.1.12 Is there an anti-ragging committee? How many instances (if any) have been reported during the last four years and what action has been taken on these?

- **Yes**, the institute has anti ragging committee and squad comprising of Principal, senior faculty members, Student representatives, Police Officer and NGO (Aman Movement) which takes preventive actions to avoid ragging. The Committee gives wide publicity to related acts, statutes and punishments in the form display boards in the college, library, website and hostels. It is mandatory for the students to produce an anti-ragging affidavit during admission to the institute. The Anti-ragging squad makes random visits to various departments, library and hostels to ensure that no ragging takes place.
- No ragging instances have been reported in the last six years.

5.1.13 Enumerate the welfare schemes made available to students by the institution.

- Various scholarships are given to the students to avail concession in the fees.
- Book bank scheme is available for backward category students.
- *Health services*: The institute has made arrangements of a Call on doctor in campus clinic.

5.1.14 Does the institution have a registered Alumni Association? If 'yes', what are its activities and major contributions for institutional, academic and infrastructure development?

- **No,** the institute has not registered Alumni association till date. But we are positively planning to form alumni association and which is under process.
- Despite no having registered alumni association yet, an alumnus meeting is organized annually by the institute. It is generally organized at Farewell Ceremony of passing out students for better interaction between passed out and current students.

- Illustrious and prominent alumni are invited to deliver special lectures, motivating the students to opt for higher education and to find the means for job opportunities.
- Their valuable suggestions are taken into consideration in designing and updating the curriculum and placement assistance.
- The institute collaborates with the alumni for Industry Institute Interaction, Personality Development Programs, and Project Assistance for final year students, arranging seminar / guest lectures for UG students.

5.2 Student Progression

5.2.1 Providing the percentage of students progressing to higher education or employment (for the last four batches) highlight the trends observed.

Table 5.6: Students Progression

Student progression	%
UG to PG	19.30
PG to M.Phil.	NA
PG to Ph.D.	12
Employed Campus selection Other than campus recruitment	55

Table 5.7: Students opting for PG and higher studies

Academic Year	Total Students opted for PG		dents registered for Ph.D.
	In India	Abroad	
2016-17	-	-	-
2015-16	03	-	-
2014-15	07	01	-
2013-14	16		02
2012-13	18	02	-
2011-12	23	-	-

Table 5.8: Students Placed in campus and off campus

Academic Year	No. of Companies Visited	No. of Students Placed	Campus	Off Campus	Campus Placement %	Off Campus Placement %
2016-17	2	2	1	1	50	50
2015-16	9	18	4	14	22	88
2014-15	14	39	18	21	49	54
2013-14	14	64	18	46	28	72
2012-13	14	49	18	31	37	63
2012-11	5	30	14	16	47	53
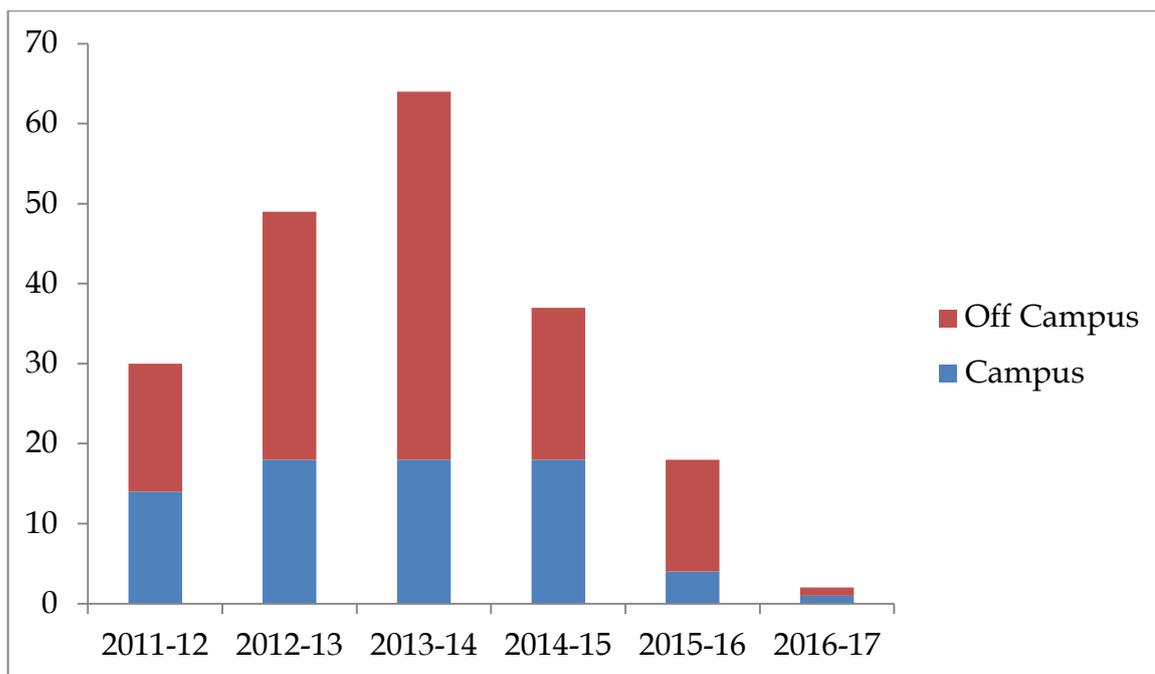
The above graph depicts number of students placed in Campus and Off Campus during successive years

Table 5.9: List of Companies in which Students got placed in campus and off campus

Academic Year	No. of Companies Visited	Students appeared	No. of Students Placed	% of Students placed
2016-17	**2**		**2**	
	Epic Reasearch, Indore	2	1	50
	Unitel Wireless Solutions	2	1	50
2015-16	**9**		**18**	
	Pompeii Technologies Pvt. Ltd.	7	5	71
	Tapadiya Polysters	6	4	67
	Dhoot Transmission Pvt. Ltd. Pune	2	2	2
	BP Ergo Ltd, Mumbai	1	1	100
	Jadhao ICON, Amravati	2	2	100
	Dhawal Technologies, Warje Pune	1	1	100
	Bergwerff organic (India)Pvrt. Ltd.Pithampur Dhar MP	1	1	100
	Tech Mahindra	1	1	100
	PGM Precautions solutions Pvt. ltd.	1	1	100
2014-15	**16**		**37**	

	Ingenio Technologies Pvt.Ltd., Pune	25	12	48
	Escurve Solutions INDIA Pvt. Ltd, Akola	5	3	60
	Tecknowledge software, Kolkata	3	1	33
	Jalaram Flexo Laminates, Nagpur	5	2	40
	Imperial Society of Innovative Engineers., Jalandhar, Punjab	2	2	100
	Interactive Designs Pvt. Ltd., Nagpur	4	2	50
	Peopleskart Pvt. Ltd.,Nagpur	5	3	60
	Uniinfo Telecom Pvt. Ltd.	2	1	50
	Trinity Engineers Pvt Ltd.	2	1	50
	Enable IT Solutions PVT LTD.	7	3	43
	Neo Petcon India PVT. Ltd.	1	1	100
	Brembo Brake India.	1	1	100
	Tapdiya Polyesters PVT. LTD., Nagpur	3	2	67
	Das Offshore Engg. Pvt ltd	1	1	100
	Chandan Steel Ltd.	1	1	100
	Kalika Steel	7	3	43
2013-14	**16**		**64**	
	Paramatrix, Mumbai	20	7	35
	Sutherland Global serices, Mumbai	16	7	44
	Tech Mahindra, Pune	5	3	60
	Accel Frontline Global IT Services, Chennai	15	7	47
	Grace Technologies, Pune	6	4	66
	AAKG PVT. LTD. NAGPUR	5	3	60
	ONWORDS Technology.	1	1	100
	Shriram Transport Finance Company LTD.	3	1	33
	KALISMA Steel PVT. LTD	16	8	50
	Pacific International Lines	1	1	100
	DeMECH Chemical Product, PVT. LTD.	1	1	100
	Enable IT Solutions PVT LTD.	15	7	47
	Spectrum Planning Sevices	24	11	46
	Kishor Pump Pvt.Ltd.	1	1	100
	Mahindra	2	1	50
	Axis Technical	1	1	100
2012-13	**14**		**49**	

	Apeeln Technologies Incorporation, Gurgaon	20	10	50
	Enigmatics Infotech Pvt Ltd, Vadgaon, Pune	10	4	40
	Oreinfo Solution Pvt. Ltd.	15	6	40
	Enarty Infotech,Munshi, Amravati	11	4	36
	AAKG Pvt. Ltd. Nagpur	12	4	25
	Analytical Technologies, Vadodara Gujrat	16	7	44
	SACHIN FORGING, PUNE	5	2	40
	Enable IT Solutions PVT LTD.	4	2	50
	ELRING KLINGER INDIA, RANJANGAON	2	1	50
	Mahindra	1	1	100
	Vimal Fire control pvt. Ltd., Vadodara	1	1	100
	KPIT Ltd.	2	1	50
	Onward eservices	2	1	50
	AMBIKA PRESS METAL, NASHIK	2	1	50
	4		**30**	
2012-11	Proex Technologies	31	14	45
	Accel FrontLine Ltd.	14	8	57
	Sutherland Global Services	5	2	40
	Global Logica Soft. Tech.	11	6	54

Considering that post-graduation has become an integral part of present education and looking at historical data of the institution, the following trends were observed so far as higher education and employment is concerned.

- Students opting for post-graduation abroad is increasing progressively.
- Students opting for post-graduation In India is becoming popular.
- Students Opting For Ph.D. is in a nascent stage
- Students opting for employment through college is **55 %** of eligible students

5.2.2 Provide details of the programme wise pass percentage and completion rate for the last Six years (cohort wise/batch wise as stipulated by the university)? Furnish programme-wise details

Table 5.10: Passing percentage and completion rate for the last Six years

Department	Year	Total Number of Students appeared	Total Number of Students passed	Total No. of Girls Passed	Total No. of Boys Passed	Passing Percentage (%)
Mechanical Engineering [UG]	2016-2017	86	Appeared	Appeared	Appeared	Appeared
	2015-2016	79	71	6	65	90
	2014-2015	90	43	3	40	47.48
	2013-2014	58	49	2	47	84.48
	2012-2013	82	70	5	65	85.36
	2011-2012	71	60	4	56	84.51
Mechanical Engineering [PG]	2016-2017	3	Appeared	Appeared	Appeared	Appeared
	2015-2016	6	2	0	2	33.33
	2014-2015	12	5	0	5	41.66
	2013-2014	12	3	1	2	25
	2012-2013	First Batch in First Year				
Information Technology [UG]	2016-2017	3	Appeared	Appeared	Appeared	Appeared
	2015-2016	3	0	0	0	0
	2014-2015	9	5	3	2	55.56
	2013-2014	11	11	4	7	100
	2012-2013	45	25	8	17	55.56
	2011-2012	47	38	17	21	80.85
Computer Science & Engineering [UG]	2016-2017	30	Appeared	Appeared	Appeared	Appeared
	2015-2016	22	17	14	3	77.27
	2014-2015	21	11	10	1	52.38
	2013-2014	15	10	10	0	66.67
	2012-2013	79	59	27	32	74.68
	2011-2012	67	49	29	20	73.13
Computer Science & Engineering [PG]	2016-2017	4	Appeared	Appeared	Appeared	Appeared
	2015-2016	5	3	2	1	60.00
	2014-2015	First Batch in First Year				
Electronics	2016-2017	16	Appeared	Appeare	Appeared	Appeared

				d		
& **Telecommu** **nication** **Engineering** **[UG]**	2015-2016	28	25	15	1	89.28
	2014-2015	52	19	12	7	36.54
	2013-2014	55	46	25	21	83.64
	2012-2013	82	55	20	35	67.07
	2011-2012	74	55	26	29	74.32
Electrical **Engineering** **[UG]**	2016-2017	55	Appeared	Appeared	Appeared	Appeared
	2015-2016	54	49	10	39	90.74
	2014-2015	29	18	12	06	62.07
	2013-2014	23	18	09	09	78.26
Electrical **Engineering** **[PG]**	2016-2017	0	0	0	0	Appeared
	2015-2016	11	0	0	0	0
	2014-2015	First Batch in First Year				

5.2.3 How does the institution facilitate student progression to higher level of education and/or towards employment?

Students are not only counseled regarding clearing the requisite eligibility test but are also helped in securing admissions to good universities with appropriate monetary aid. Some of the highlights of the cell are:

- Facilitates Summer Internships and Trainings
- Development of Soft Skills
- Guidance and Counseling
- Training on Project Innovation & Research Skills

    The institute also caters to the needs of students who would like to pursue their education in India by training them to crack competitive examinations like GATE, MBA-CET, CRT etc.

    The institute has a Training and Placement Cell which ensures that students receive quality training for all round personality development from professional trainers, and those maximum numbers of students are placed in good companies with lucrative package deals.

- The institute has a very active Entrepreneurship cell which organizes expert lectures conducted by Industrialists and experienced Professionals to develop entrepreneurship awareness and skills amongst the students which leads to self-employment.
- The Institute through Training Program provides an extensive training to the

students in presentation and communication skills prepares them to face corporate interviews by conducting effective GD/PI sessions and grooms them for campus placements.

5.2.4 Enumerate the special support provided to students who are at risk of failure and drop out?

The institute has a tried and tested system for improving the performance of academically weak students. Every department

- Conducts extra theory and practical sessions for the identified students.
- Conducts meeting of guardians of concerned students to improve their academic performance.
- Laboratories, Library facility and internet browsing center beyond Institute working hours are made available for these students.
- Regular tests and extra practical exams are conducted for students to help improve their performance in examinations.

5.3 Student Participation and Activities

5.3.1 List the range of sports, games, cultural and other extracurricular activities available to students. Provide details of participation and program calendar.

- INNOVISION, one of the biggest national level cultural and sports festival organized by KGIET, is a fine blend of activities like dance, Fashion Show, Singing, Cricket, Football, Volleyball, Basketball, Chess, Kabaddi, Running which gives students a chance to showcase their talents.

- PRAYUKTI, one of the largest national level technical extravaganza hosted for the engineering students by KGIET is a fine blend of innovative and challenging events with a dash of entertainment added to it. The events organized in PRAYUKTI are largely based on themes which connect to problems faced by the common man. PRAYUKTI is a conglomerate of technical events with over 40 plus different technical competitions, gaming events being conducted in various engineering disciplines which help students in their overall growth. The promotion leaflet used for Prayukti 2017 is shown in Fig. 5.1.

Fig. 5.1: Leaflet for promotion of Technical Event PRAYUKTI 2017

5.3.2 Furnish the details of major student achievements in co-curricular, extracurricular and cultural activities, Technical and Sports activities at different levels: University / State / Zonal / National / International, etc. for the previous four years.

Students are encouraged to participate in various activities at different levels, which are projected in the graph. Students also have own various prizes at national and international level.

Table 5.11: Participation of Students in Different Activities

Year	No. of Students					
	Technical	Cultural	Youth Festival	Training	Workshop	Sports
2016-2017	20	46	29	0	0	35
2015-2016	9	16	28	0	0	25
2014-2015	65	22	29	10	3	22
2013-2014	30	11	36	0	0	30
2012-2013	4	1	32	0	0	0
2011-2012	10	0	0	0	0	0
Total	138	96	154	10	3	112
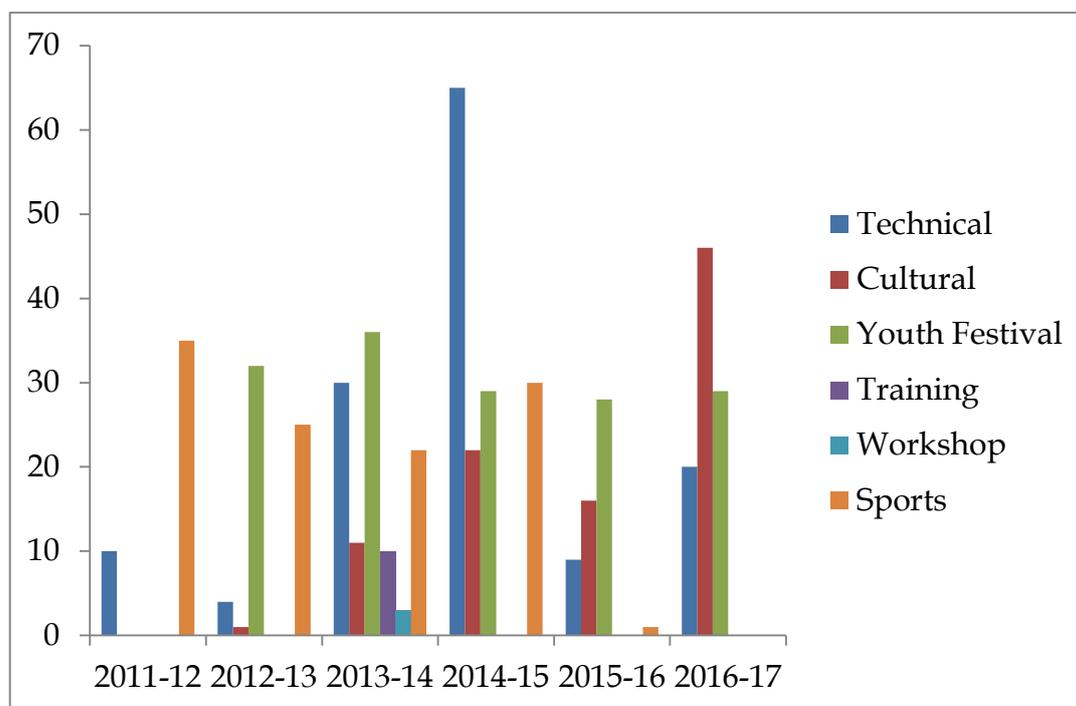
The above graph depicts number of participated different events.

Table 5.12: Participation of Students in National/International Special Recognition Events

Year	Competition	No. of Students
2012-2013	BAJA OFF Road Car racing competition held at Indore	25
2013-2014	Imperial Society of Innovative Engineer's ,Jalandhar (PANJAB) HYBRID GO-KART CHALLENGE CHAMPIONSHIP (HGC).	25
2013-2014	Delta OFF Road Car racing competition at Jamshedpur	40
2014-2015	Supra Off Road Car racing competition	25
2014-2015	Imperial Society of Innovative Engineer's ,Jalandhar (PANJAB) ELECTRIC SOLOR VEHICAL CHAMPIONSHIP(ESVC).	23
2014-2015	Delta OFF Road Car racing competition held at NIT Jharkhand	25
2015-2016	BAJA OFF Road Car racing competition held at Indore	25
2016-2017	ATV OFF Road Car racing competition held at Ahmadnagar	25

Table 5.13: Achievement of Students in National/International Special Recognition Events

Year	Competition	Achievements
2013-2014	Imperial Society of Innovative Engineer's, Jalandhar (PANJAB) HYBRID GO-KART CHALLENGE CHAMPIONSHIP. (HGC)	**Won prizes :-** Best Team, Appreciation Award, Best Design, Professionalism Award, Jury Award.
2013-2014	Delta OFF Road Car racing competition at Jamshedpur	**Won 3rd prize**

2014-2015	Imperial Society of Innovative Engineer's, Jalandhar (PANJAB) ELECTRIC SOLOR VEHICAL CHAMPIONSHIP (ECVC)	Won prizes :- Best Team, Appreciation Award, Best Skid Pad Award, Jury Award

5.3.3 How does the college seek and use data and feedback from its graduates and employers, to improve the performance and quality of the institutional provisions?

- *Student's feedback*: Feedback taken from students in the form of course feedback and faculty feedback helps in improvement in curriculum and teaching methodologies adopted by faculty members. It also helps the institute in improving the infrastructural facilities if need be. The student's feedback is taken on-line to maintain transparency in the system.

- *Alumni feedback*: The Institute regularly conducts Alumni meets during Farewell Ceremony in which the Alumni feedback is taken regarding current industry trends and what enhancements are required in teaching-learning process which will make the current students industry-ready.

- *Employer feedback*: The feedback given by employers after campus placements also helps the institute immensely in improving the training imparted to students who face interviews.

5.3.4 Does the college have a Student Council or any similar body? Give details on its selection, constitution, activities and funding.

Yes, The institute has a Student council established under the provisions of section 40(2) (a) of Maharashtra University Act 1994.

The council comprises of the Principal, one Faculty member, National Service Scheme Program Officer, Director of Sports and Physical Education, one representative from sports, NSS and cultural activities, one meritorious student from each class and two lady student members.

The Student Council is also a student association with a perfect blend of departmental forums to produce competent students to face the newer challenges of today's globalized world through holistic development. This council provides a platform for students to support, share and excel in potential qualities.

Constitution of student's council:
- President

- Vice president (students affairs)
- Vice president (students activities)
- Secretary
- Treasurer
- Foreign student's representative
- Council members consists of Class Representative of each class of various departments and President of departmental Student Chapter.

Selection Process: The Office bearers of the SSC are elected through an online process which includes:

- Registration – Letter of recommendation from HoD
- Interview – By apex body consisting of senior faculty
- Campaigning - Electronic Media
- Elections - Result

5.3.5 Departmental Student Forums:

Table 5.14: Name of Departmental Forum

Department	Name of Forum
Mechanical	MESSA
Electronic and Telecommunication	E2SA
Computer and Science Engineering	ACSES
Electrical Engineering	ELESA
Civil Engineering	CESAA

5.3.6 Give details of various academic and administrative bodies that have student representatives on them.

The institute has student representatives in many of the academic and administrative bodies for effective functioning of the same. Some of the bodies are listed below:

- Women Harassment Cell
- Anti Ragging Committee
- Training and Placement Cell
- Student Council
- National Service Scheme
- Cultural/Sports Committee
- Social Initiatives
- Student grievance redressal committee.
- Professional bodies
- Hostel Committee
- Mess/Canteen Committee

5.3.7 How does the institution network and collaborate with the Alumni and former faculty of the Institution.

- *Collaborate with the Alumni*

The interactions between the Alumni and the present students give a chance for both the parties to develop positive synergies to enhance growth. Every year the annual Alumni Meet provides a platform for the students to renew old bonds with the Alma-mater, foster new ties and relive the nostalgic college moments.

The Alumni Association interfaces between the eminent alumni and the institute creating a strong network that helps in nurturing executives who can thrive in a challenging and changing business environment.

The interaction with alumni is helping the institute by way of guest lectures, industrial visits, project work, student internship, training and placement etc

The institute effectively networks and collaborates with alumni which have seen a progressive increase in the number of alumni interacting with the students every year.

- *Collaborate with the Faculty*

The former faculty of the institution also contributes in the form of speakers and judges of various events, examiners and Ph.D. guides at the respective research centers.

CRITERION VI: GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 Institutional Vision and Leadership

6.1.1 State the vision and mission of the Institution and enumerate on how the mission statement defines the Institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, Institution's traditions and value orientations, vision for the future, etc.?

The institution belongs to a well-known social educational and charitable trust namely Shri Dadasaheb Gawai Charitable Trust (DGCT), Amravati. The Trust provides qualitative and invaluable service in the field of Education, especially for the poor and the down trodden classes of the society. The Trust was started by our Hon'ble Patron, Shri. R. S. Gawai. Today the Dadasaheb Gawai Charitable Trust runs 39 Institutions, from Primary schools to colleges; the recent addition is an Engineering college. The institute is named as Dr. Sau. Kamaltai Gawai Institute of Engineering and Technology (KGIET), Darapur. Institute is located at Darapur, in the Daryapur Taluka of Amravati District of Maharashtra State, India.

The Engineering College has sufficient Infrastructural facilities and well qualified teaching faculty. The College is committed to the development of the student's in academics as well personality and therefore conducts social activities like Meditation Camps and Awareness Drives for Family Planning, Employment for Rural Youth, Diagnostic Camps and Computer education for the poor. Guidance Center for Competitive Examinations and schools for Physical Education in rural areas are also run by the Trust.

Vision and Mission of the Institution are as follows:
Quality Education is our mission not a profession …………………Hon. R. S. Gawai

Vision of Institution:
To become a technical institution of repute by incorporating best possible innovative instructional techniques in engineering & technology and imparting social & moral values amongst the students to be a socially responsible citizen

Mission of Institution:

To transform the rural learner into technocrats to meet the challenges in an ever-changing global society by imparting outcome based technical education, providing a strong theoretical foundation, developing leadership qualities by inculcating professional conduct, ethics and the attitude of lifelong learning.

Objectives of Institution:

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

2. To offer a well-balanced program of learning in technical and professional education.

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

4. To provide opportunity for overall personality development, discipline and values in students.

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

6. To establish linkage with industry and other stakeholders for the promotion of dissemination of knowledge of applied technology, placement of students and continuing education.

Table No. 6.1

Professional Skills	Core Employability Skills
- Identify, Formulate and solve technical/ Engineering problem - Design a system, Components, process to meet desire needs. - Use appropriate/ modern tools, equipment and techniques. - Apply knowledge of mathematics, Science & engineering. - Acquire knowledge of contemporary issues. - Develop creativity.	- Integrity - Self-Discipline - Reliability - Self-motivation - Team work - Understanding and taking directions for work assignments. - Willingness to learn - Flexibility - Empathy

Goals of Institute:-

1. To groom various departments laboratories for research programs.
2. To develop thrust areas activities like non-conventional energy sources, and green campus.
3. To develop "lifelong learning" activities.
4. To achieve at least sizable percentage placement of students.

- Institutional long term goal itself is the vision for future development.

Communication of Vision and Mission to students, teachers, staff and other stake holders

The Mission statement is communicated to all the students, teachers, staff and other stake holders. Mission is published through the college website, through circulars, display boards as well as college magazine. The mission is also published in the college prospectus making it available to students, parents/guardians and the public.

6.1.2 What is the role of top management, Principal and Faculty in design and implementation of its quality policy and plans?

The institute has a Governing Body and Local Managing Committee as per Government of Maharashtra norms. For designing and implementing its quality policy and plans effectively, the institute has an efficient co-ordination and internal management system. The Quality Policy of the institute aims to establish center of excellence in technical education and research in Engineering and Technology by way of

- Inducting faculty having sound knowledge in the field of Science and Engineering and to make special efforts to retain them.
- Developing human capital by supporting talent, ideas and energies of outstanding individuals.
- Promoting partnerships with the quality institutes, research organizations and prominent corporate houses.
- Developing excellent teaching learning process by establishing cohesive bond between students & faculty and healthy atmosphere with decent discipline.

The role of top management, Principal and Faculty in design and Implementation of its quality policy and plans are described as under:

Roles of Top management:
- To give the Vision , Mission to the Institute
- Strategic planning to achieve the Vision and Mission
- Delegation of authorities and Responsibilities to implement the policies
- To give organization structure, Infra structure and provide resources for it.
- To appraise the progress of Institution regularly and to take corrective actions.
- To look after welfare and maintain discipline amongst students and Staff.

Roles of the Principal:
1. To give academic and administrative leadership to the Institutions
2. To apprise top management about norms , Standards , Rules & Regulations of Regulating authorities like All India Council for Technical Education, State Government, Affiliated Universities, Admission regularity Authority and Fee Regality Authorities and to help for necessaries policy decision for its smooth implementation
3. To understand the expectations of state holders viz. students , parents , Industry, etc. need to orient the working of Institutions to make the expectation to the extent possible with the help of Management
4. To promote overall development of the Institution
5. To facilitate recruitment of Teaching faculties and supporting staff time to time as per norms of All India Council for Technical Education, Directorate of Technical Education and Affiliated University guidelines.
6. To facilitate the organization of Faculty Development Program (FDP) and staff development program (STTP), Continuing education program (CEP).
7. To implement faculty staff, student's welfare measures.
8. To conduct college council meeting , students Student Representative Council meeting Local Managing Committee, Governing Body & Coordination committee meeting regularly to monitor , coordinate and effective management of all college activities
9. To Plan for campus placements through training and placement officer.
10. To review University results & suggest improvement
11. Frame the Standard Operating Procedures for smooth conduction of various activities of College

12. To assign the portfolios at College level
13. To inculcate innovation in quality education, research and development
14. To carry out the Performance appraisal of all teaching and technical & supporting staff members and convey them their feedback.

Role of Head of Department:

1. To provide academic and Administrative leadership to the department.
2. To support in administration and management to fulfill vision and mission of institute.
3. Subjects allotment, workload and Departmental portfolio distribution to faculty members well in advance before commencement of each semester.
4. Convene Departmental staff meeting regularly and to give recommendation to College Council/Governing Body/ Local Management Committee for development of the department.
5. Ensure academic discipline in the Department.
6. Optimization of infrastructure and resources used in the Department.
7. Promote innovations in Teaching-Learning Process.
8. To motivate students and faculties for participation in curricular, extra-curricular activities, research and innovations
9. To carryout activities in all domains like Research and Development, technical activity, social, curricular and co-curricular activity.
10. To prepare and implement Departmental budget for each academic year.

Role of the faculty:

The faculty role generally encompasses three areas of responsibility: teaching, research and administrative support to department and college.

1. To plan and implement effective Teaching- Learning Process.
2. To assess and evaluate the students
3. To develop resource material and experimental setup in laboratories.
4. To act as a "Mentor" for the group of students who are allotted to him/her by the Head of Department.
5. Along with the students development, faculty develop themselves by pursuing higher education, research work, participating in various events, competitions, Short Term Training Programs , workshops, Faculty Development Program , Academic Quality Improvement Plan, etc.
6. To participate in social services like blood donation, tree plantation, Clean India Movement, Voter motivation camp, National Service Scheme, etc.

7. To handle co-curricular and extra-curricular activities.

8. To follow rules and regulations of the administration, department and institute.

9. To follow the duties and responsibilities assigned by Head of Department /Principal.

For the effective and efficient implementation of its Quality Policy, the management has formulated standard practices which show the commitment, leadership role and its involvement. Following are some of the points which highlight the intent of the college for implementation of its quality policy.

- Recruitment procedures and policies are followed as per AICTE /University / Directorate of Technical Education, Government of Maharashtra rules and regulations.
- Sufficient financial budget provided to each department.
- Motivation, guidance, appreciation, incentives and moral support to all the stakeholders.
- Active involvement of students and faculty in academic events organized by college.
- Development of effective mechanism for monitoring the activities.
- Regular meetings with teaching and non-teaching staff for better interaction.

The faculty members are actively involved in decision-making process at various levels. Different committees are constituted for the smooth conduction of various events. All the new and revised policies to improve academic activities, methodology of conducting examinations are reviewed and discussed in HOD meetings before implementation.

6.1.3 What is the involvement of the leadership in ensuring:

1. The policy statements and action plans for fulfillment of the stated mission

2. Formulation of action plans for all operations and incorporation of the same into the institutional strategic plan

3. Interaction with stakeholders

4. Proper support for policy and planning through need analysis, research inputs and consultations with the stakeholders

5. Reinforcing the culture of excellence

6. Champion organizational change.

The policy statements and action plans for fulfillment of the stated mission are given below.

1. Head Of Department, Principal are members of all strategy and planning bodies namely Executive council of Trust, Governing Body, Local Managing Council and College council of Institute which develop all policies, long term plans, goals, Vision, Mission, Objectives and Quality for academic excellence and value additions.

2. Head of Department chair the students- parents meet, Interactions with Industry, and are In charges of various events and academic , Curricular and Co- curricular activities

3. Principal, Head of Department and faculty are members of alumni association, meeting of which are conducted bi-annually.

4. Head of Departments identify the need of capacity and capability building for future developments, advancements in their subject. They also coordinate; interact with Industry experts, eminent academician to perceive them to be adjunct faculty or resource person for Faculty Development Program.

5. Principal, Head of Departments and Faculty Coordinate with Training & Placement cell to promote Training & Placement activities and to enhance the Employability skill of the students

6. The review and feedback sessions are held at various levels as per the planned schedule.

7. Committees for Redressal of grievances of students.

8. Recommendations and support for awards, appreciations, to students and faculty achiever in academic, Research & Development , Innovations, Cultural events , technical events and Sport events.

The involvement of the leadership in ensuring:

- **The policy statements and action plans for fulfillment of the stated mission**
  The head of the institution administers all the activities and plays a leading role in governance and management of the institution. The mission is communicated to the faculty and accordingly all activities are planned as per the suggestion of the governing body and other committees. The meetings of all faculty members are regularly conducted for the better

working of the college. The leadership hierarchy of the institute is given in Fig.6.1
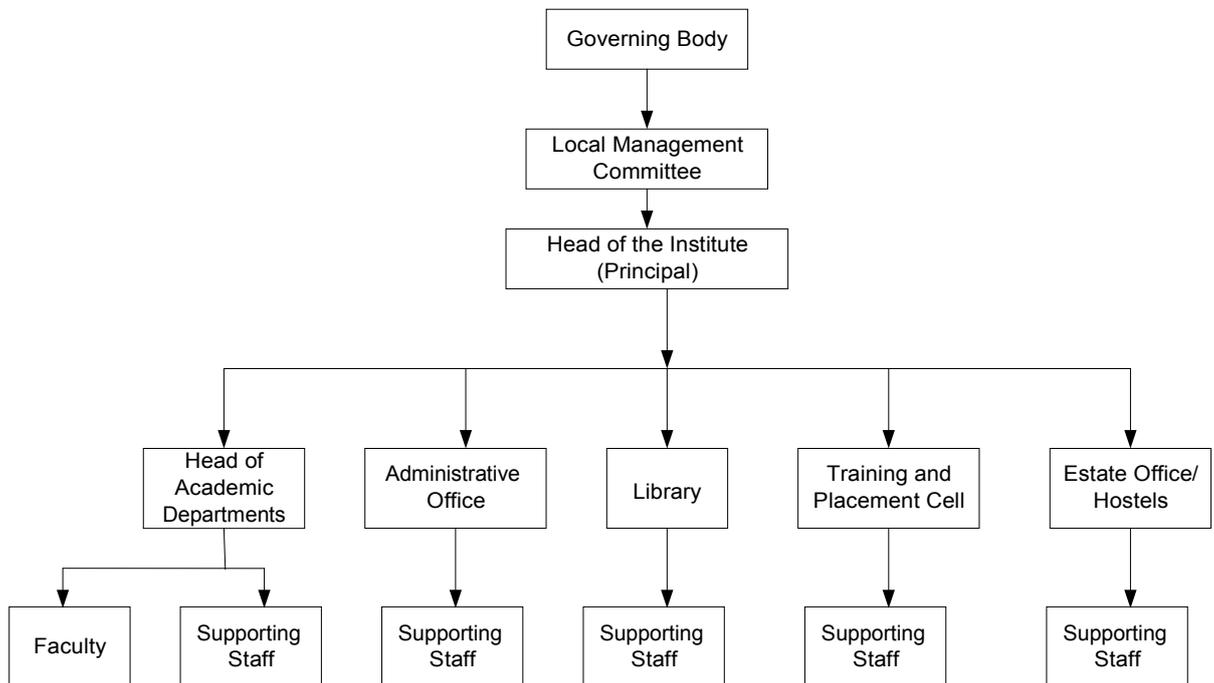
Fig.6.1 Institutional leadership hierarchy

- **Formulation of action plans for all operations and incorporation of the same into the institutional strategic plan**

  A detailed academic calendar is prepared at the start of each semester which includes all academic, co-curricular and extra-curricular activities to meet the institutional objectives. The calendar prepared is in line with the University calendar. Apart from the regular teaching activities, institute has taken an initiative to run innovative programmes like Student training Program (STP), Teacher advancement program (TAP), and Train the trainer (TTT) etc.

- **Interaction with stakeholders**

  All the stakeholders such as students, parents, alumni, industry, employers and professional bodies participate in institutional activities through the feedback mechanism as well as regular contact. The involvement of all stakeholders is ensured for improving the quality of the institution and internal coordination.

- **Proper support for policy and planning through need analysis, research inputs and consultations with the stakeholders**

  The college policies are constituted to meet the market demands. The

stakeholders' requirements and industrial needs are taken into account while planning the policies. For the execution of these policies the facilities are created by the institution for the training of the students, improving their soft skills.

- **Reinforcing the culture of excellence**

  The institute has recognized the need to achieve the academic as well as overall excellence. In order to achieve this, Guest lectures, workshops, student project competitions, paper presentation competitions, technical quiz, industry institute interaction, consultancy activities, R & D activities are carried out which help to achieve the excellence.

Champion Organizational Change

- Management , Principal and Head of Departments strive for new methods , automation and computerization of systems adopting advance Teaching-learning methods of Technology, Restructure organization setup by delegating authorities to bring changes for rapid advancement and to reduce red tapisum and bottle neck.
- For the overall development of the college, regular feedback is taken from all the stake holders. Any areas of improvement mentioned in the feedback are given due consideration and the related changes or the improvements are brought in the relevant areas. The college always strives hard for achieving excellence.

6.1.4 What are the procedures adopted by institution to monitor & evaluate the policies & plans of the institution for effective implementation & improvement from time to time?

Following are the procedures adopted by institution to monitor & evaluate policies & plans of the institution for effective implementation & improvement from time to time:

- Close interaction with students, parents, industry, alumni.
- Suggestion feedback are discuss in various meetings and decisions are taken to change
- Continual review and study of policy decisions of regulating authority and accordingly policy decisions are change suitably
- The college conducts periodic meetings to ensure that all the designed policies are executed time to time.
- The management as well as principal meets Head of Department to take a

review of their departments.

- A regular meeting is conducted for all faculty members to know about syllabus completion & decide further actions plans.
- Feedback of students is also taken with the help of Student Representative Committee so that their grievances & problems can be easily addressed.
- For the betterment of students to match the industry expectations, institute takes help of industry experts so that apart from academics, students are updated with recent trends & technologies.

The functioning of the institute is monitored at three levels. They are as follows:

Shri Dadasaheb Gawai Charitable Trust (SDGCT):
The resolutions made in the Governing body meetings related to the policies and plans are communicated to the institute.

Institute (KGIET):
Regular meetings of heads of department are conducted for smooth functioning of the college. All suggestions regarding better functioning of the departments are accepted and positively executed. Apart from this, the implementation of policies and plans recommended by the LMC are discussed.

Department:
The minutes of heads of department meetings are briefed to all the faculty members by the head of each department. Further the planning is made at the department level for effective implementation of policies and plans. The faculty members work as activity chairpersons and members in various administrative committees.

6.1.5 Give details of the academic leadership provided to the faculty by the top management?

- The institute provides various platforms for faculty to develop leadership skills at department, institute and SDGCT level by giving them various portfolios. The policies are decided by the governing body of SDGCT and complete academic, administrative and financial freedom is given to the Principal, heads of the departments and faculty. The details of responsibilities, duties and expected outcomes from the individual are mentioned below:
- Principal is authorized to appoint appropriate person as the head of the department with distinct leadership qualities and good listening ability to understand the students and faculty, their situations and expected outcome

- Head of the department is empowered to allocate specific subjects to appropriate faculty for the betterment of students and to get quality results. Apart from the academic workload the head of the department also assigns few administrative duties to the individual faculty based on the ability and the leadership qualities of the individuals

- Every faculty is given complete freedom to decide the suitable teaching methodology of his/her choice by understanding the time frame and evaluation mechanism.

- Decentralization has been done at various levels. Under the leadership of Principal, coordinators of various committees along with the heads of the departments are delegated powers and responsibilities to handle specific task assigned to them.

- Based on the feedback and periodic result analysis, the remedial actions to achieve the expected outcome are specifically given to all the faculty members either by oral discussion or through official orders if necessary by the principal through the heads of the departments

- Also faculty members exploit their knowledge and ability to percolate the knowledge with the help of academic freedom given by the heads of the departments with clear understanding of their responsibilities and expected outcomes.

6.1.6 How does the college groom leadership at various levels?

The functioning of the college operates at four different levels such as student, faculty, Head of the department and Principal. The institute provides various forums for all to develop leadership at department, institute and STES level by giving them various portfolios.

The Head of the Department as a leader understands the strength of the faculty and assesses involvement of faculty and interest shown while executing specific activities. The Head of the Department is empowered to promote specific faculty to handle dedicated events in best possible way. This process is not only helps to groom the leadership of head of the department but also to create a follower while executing various activities efficiently. Similar approach is also followed by the Principal to promote and encourage heads of the departments while executing various activities for the development of the institution. The institute grooms the leadership as

follows-

Student level:

- Encouraging to conduct various activities by the students for the students
- Assigning freedom and responsibilities to develop their plan of execution of various activities
- Enhancement of their personality development, soft skills and communication skills and build the confidence while execution of specific task
- Motivation and encouragement for new innovative ideas with strong moral support from faculty.

Faculty level:

- Opportunities to lead specific committee while conducting various activities at department and institute level
- Freedom is given to express their thoughts, new ideas and novel approaches
- Inspiring them to lead the students community during the classes, practical and industrial tours to guide the students while acquiring knowledge
- Encouragement to lead the faculty while organizing various university level seminars and workshops

HOD level:

- Decentralization of various tasks to develop leadership at department level
- Assigning few institutional responsibilities well supported by the Principal and the Management
- Experiencing healthy competition among the departments and encouragement to head of the department to achieve greater academic performance
- Encouragement to visit various organizations to understand their best performances and implementation policies
- Encouragement to follow best administrative practices to avoid confusion and hurdles in the path of success

Principal level:

- Freedom is given while executing academics
- Financial freedom and moral support for the betterment of quality outcome
- Appreciation for execution of best practices
- Experiencing healthy competition among the institutes and encouragement

to head of the institute to achieve greater academic performance.

- Assigning Society level tasks to organize specific activity

Table 6.2 Grooming leadership of faculty and staff

SN	Committees	Convener	Members
1.	Academic Planner diary, Time-table College Prospectus & Information Brochure	Dr. S. M. Kherde Prof. D. B. Pawar Prof. K. G. Hirde	All HOD's
2.	First Year Admission	Prof. N. S. Ghotkar	Prof. S. T. Warghat Prof. N. V. Raut Prof. A. W. Kale Prof. M. M. Patil Prof. P. J. Bhadange
			Mr. H. A. Dhumale Mr. A. B. Kalmegh Mr. S. Shaikh Mr. A. Sakhare
3.	Direct II Yr. Admission	Prof. N. S. Ghotkar	Prof. M. P. Bijwe Prof. S. V. Bhunte Prof. S. A. Nandeshwar
			Mr. Y. R. Adhau Mr. V. D. Gadge Mr. A. R. Ganorkar
4.	ME Admission	Dr. S. M. Kherde Prof. V. P. Nikam Prof. S. T. Warghat Prof. A. N. Kausal	Prof. D. B. Pawar Prof. N. D. Wadokar Prof. Ms. N. R. Borkar Prof. Umar Faruk Khan
5.	Higher Class Registration & Admission Committee	HOD's, Class Teachers of Respective Departments	Departmental Staff

6.	Admission Counseling Desk	Prof. N. V. Raut	Dr. P. M. Pete Dr. R. N. Bhagat Prof. M. V. Benodkar Mr. A. Pedhekar
7.	Admission Approval	Dr. S. M. Kherde Mr. H. A. Dhumale (AO)	Admission Committee
8.	Publicity Committee	Prof. S. B. Yawale	Prof. S. V. Shinde Prof. K. G. Hirde Prof. S. M. Wange Prof. Nita Pund
9.	Student Facilitation Center	Prof. D. B. Pawar	Prof. D. J. Manowar Prof. A. A. Chinchmalatpure Prof. Ms. N. R. Borkar Mr. P. R. Thakre
10.	Computer Centre & Language Lab.	Prof. T. N. Ghorsad	Prof. S. V. Shinde Mr. S. B. Dhole Prof. L. S. Sahastrabuddhe Prof. A. A. Chopade Prof. K. R. Dole
11.	Welcome to new admittees	Prof. N. S. Ghotkar	All Head of the Departments
12.	University Examination (Th)	Prof. S. T. Warghat Prof. A. P. Rudey	Mr. S. B. Dhole Mr. P. P. Bangre Mr. B. B. Ardak Mr. A. M. Pedhekar Prof. S. R. Gehi
13.	University Exam.(Practical) & University - Institute Marks Top Colleges	Prof. L. R. Mahore Prof. N. R. Borkar	All Departmental Practical Coordinators
14.	Other Exams	Dr. S. M. Kherde Mr. P. R. Thakre	Mr. S. B. Dhole Mr. M. P. Metkar

			Mr. P. T. Shrikhande Prof. Mohsin A. Ali Prof. K. L. Karule
15.	College Exam Cell	Prof. D. B. Pawar	Coordinator from each dept.
16.	Cultural Fest	Prof. S. B. Yawale Prof. D. J. Manowar	As per Event, One coordinator for each event
17.	Intercollegiate Sports Tournament, Intra Collegiate Sports & games	Prof. S. B. Yawale	As per Event, One coordinator for each event
18.	Student Medical Test/ Student Physical Test	Prof. S. B. Yawale	Mr. P. R. Dangore Mr. H. K. Saurkar Mr. M. A. Thakre Prof. S. D. Kakade
19.	NSS and Extension services, Independence Day, Republic Day	Prof. S. B. Yawale	Prof. Ms. N. R. Borkar Mr. S. J. Bhidkar Prof. M. Inamdar Mr. M. A. Thakre Mr. S. S. Ghurde Mr. Y. G. Bawner Prof. P. M. Lokhande
20.	Tree Plantation	Prof. Mrs. B. S. Shete	Prof. H. K. Lonpande Prof. A. P. Pinjarkar Mr. M. A. Thakre Mr. S. S. Ghurde Mr. Y. G. Bawner
21.	Disciplinary /(Detention of students)	All HODs	All HODs
22.	Ragging prevention Committee	As per statutory Act.	All HODs & Class Counselors

23.	Hostel Committee	Prof. Ravikant Borkar	Prof. Mrs. B. S. Shete Prof. S. S. Bangade Prof. M. Inamdar Prof. Neha Baretiya Mr. A. R. Dharmale
24.	Training and Placement –I	Prof. K. G. Hirde	Prof. S. V. Bhunte (MECH) Prof. N. D. Wadokar (ELE) Prof. K.A. Wankhade (EXTC) Prof. A. P. Rudey (CSE) Prof. H. K. Lonpande (CIVIL)
25.	Entrepreneurship Dev. Cell	Prof. K. G. Hirde	Mr. P. N. Charhate Prof. S. G. Vidhale
26.	Statutory Bodies like AICTE, DTE, University	Prof. A. N. Kausal	Mr. H. A. Dhumale Mrs. H. P. Kakade Mr. M. P. Gawai
27.	Internal Quality assurance	All HOD's and Prof. D. B. Pawar	Prof. K. G. Hirde Prof. A. V. Korade Dr. Ms. P. M. Pete Mr. H. A. Dhumale
28.	Internal Academic Audit Assurance Cell	Prof. D. B. Pawar	Prof. N. S. Ghotkar Mr. S. M. Petle Prof. R. S. Shrivas
29.	NAAC Accreditation	Prof. D. B. Pawar	ALL IQAC members
30.	College Website	Prof. V. P. Nikam	Mr. S. J. Hagawane Mr. S. B. Dhole Ms. M. A. Jane
31.	Budget Preparation & Departmental	Treasurer, Principal, Administrative Officer, Account Officer	All HODs, Accounts Dept.
32.	Professional	Prof. V. M. Gulhane	Prof. A. W. Kale

	Societies (ISTE/IEI/IETE)	Prof. S. A. Nandeshwar Prof. P. J. Bhadange	Prof. D. J. Manowar Prof. A. M. Manowar
33.	College Council	Prof. N. S. Ghotkar	Prof. N. V. Raut Mr. Mangesh S. Akolkar
34.	Physical Infrastructure & facilities	Prof. K. A. Wankhade	Mr. Umesh S. Men Prof. R. B. Pise
35.	Maintenance, House Keeping and security	Mr. P. R. Thakre Mr. S. B. Sarve	Mr. S. Shaikh (Turner) Mr. V. N. Tikhe (Fitter) Mr. S. B. Sarve (Electrician) Mr. M. M. Bansod (Welder) Mr. A. R. Ganorkar (Molder) Mr.G. M. Yotkar (Carpenter)
36.	Send off for final Year	Prof. K. G. Hirde	All Head of the Departments
37.	Income Tax Return Calculation	Dr. S. M. Kherde	Mr. Y. L. Sawai + Accounts Staff
38.	Students Welfare	Prof. N. S. Ghotkar	Mr. Satish D. Gulhane
39.	Virtual Class room, Digital Library	Dr. P. M. Pete Prof. D. B. Pawar	Mr. Manish A. Khodke Prof. D. S. Bhojane
40.	Purchase Committee	Director, Principal	All HODs & Section heads
41.	Library Committee	As per Library manual	As per Library Manual
42.	**Domain Specific Technical Training**		
	Information Security	Prof. V. P. Nikam	Mr. S. B. Dhole

Software Development	Prof. V. P. Nikam	Mr. S. B. Dhole Prof. S. M. Kantode
Networking	Mr. P. R. Thakre	Mr. S. B. Dhole
Automations	Mr. P. R. Thakre	Mr. S. B. Dhole
Engineering Services (CAD)	Prof. D. B. Pawar	Prof. A. M. Bobade Prof. B. U. Kakade
Testing	Prof. Mrs. B. S. Shete	Prof. Gaurav Vasantrao Bhunte Prof. V. S. Khode

6.1.7 How does the college delegate authority and provide operational autonomy to the departments / units of the institution and work towards decentralized governance system?

The organizational structure of the college provides towards the decentralize governance system (Fig. 6.2)
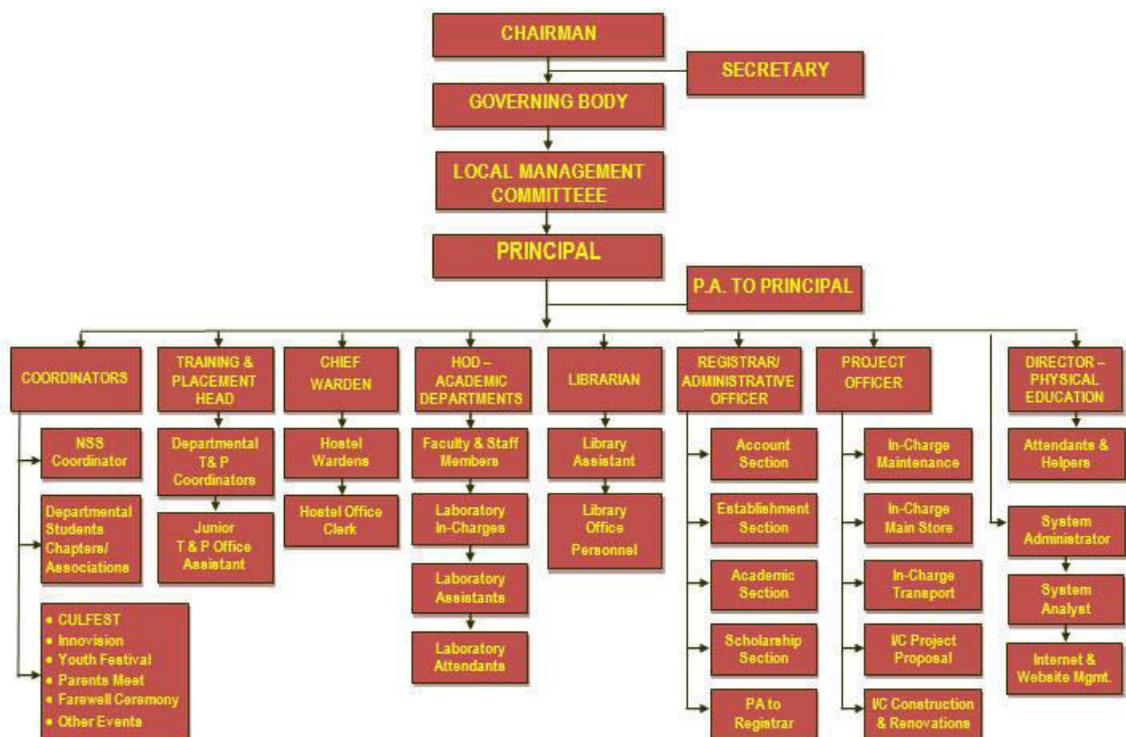
Fig. 6.2 Institutes Organizational Chart

The management of the institute has two main committees, Governing Body (GB) and Local Management Committee (LMC). The role of the GB is to decide the

policies for the smooth functioning of the institute. The GB decides the policies and gives directions to the institute through LMC for the effective implementation.

The organizational structure of SCOE is a blend of professional autonomy, individual accountability and well-defined administrative structure. Within this overall framework, faculty members have the professional operational autonomy in conducting their teaching, research, training and consultancy.

The involvement of faculty members in all aspects of academic administration throughout the Institution is assured by the administrative structure. Decentralization has been done at all levels for good governance. The institute has appointed committees with a senior faculty in-charge for various activities taking place in the institute. There is a separate Training and Placement Cell and the other units of the institution like NSS, English Club, Robotics club, e t c . are constituted by the Institute for encouraging cultural activities, maintenance of healthy campus life and work towards decentralized governance system.

6.1.8 Does the college promote a culture of participative management? If yes indicate the levels of participative management.

Fig No. 6.3 Levels of participative management

Participative (or participatory) management, otherwise known as employee involvement or participative decision making, encourages the involvement of stakeholders at all levels of an organization in the analysis of problems, development of strategies, and implementation of solutions. Participative management helps the institution in effective planning and implementation in academic and other activities.

An institute promotes the culture of participative management: The culture of participative management enables all Head of Departments, Deans, all teaching & supporting staff and students to give their advices, suggestions and participates in decision for development of the college. Principal of the institute frequently convenes the meetings with Head of Departments, academic deans, class teachers, faculties, supporting staff of the institute, students and parents. Meetings of all committees are regularly held for policy framing implementation strategy.

Levels of participative management

- **Governing Body**

Table No. 6.3 : Governing Body

SN	Name of Faculty	Affiliation	Designation in Council
1	Dr. Sau. Kamaltai R. Gawai	Founder President SDGCT, Amravati	Chairman
2	Shri. Karan Rajesh Arjun	President SDGCT, Amravati	Member
3	Sau. Kirtitai R. Arjun	Vice-President SDGCT, Amravati	Member
4	Shri. Rajesh A. Arjun	Treasurer SDGCT, Amravati	Member
5	Shri. Dharam Rajesh Arjun	Member SDGCT, Amravati	Member
6.	NIL –Yet to be nominated	Nominee –All India Council for Technical Education (AICTE)	Regional Officer (Ex-Officio)
7.	NIL –Yet to be nominated	Industrialist/Technologist/Educationalist –Nominated by Regional Committee as Nominee of the Council	Member
8.	Prof. Dr. D. T. Ingole	Nominee of the Affiliating Body/University /State Board of Technical Education	Member
9.	Dr. S. K. Mahajan	Nominee of State Government – Director of Technical Education	DTE (Ex-Officio)

10.	NIL –Yet to be nominated	An Industrialist/Technologist/ Educationalist –Nominated by State Government	Member
11.	Prof. Dr. S. M. Kherde	Principal/Director of concerned technical institution (as nominee of the Society/Trust)	Member Secretary
12.	Prof. N. S. Ghotkar	Faculty Member –nominated from the regular staff of the institute (Professor –Cadre)	Member
13.	Prof. V. P. Nikam	Faculty Member –nominated from the regular staff of the institute (Assistant Professor –Cadre)	Member

- **Board of Trustees:**

Table No. 6.4 : Board of Trustees

SN	Name	Designation
1	Dr. Sau. Kamaltai R. Gawai	Founder President
2	Shri. Karan Rajesh Arjun	President
3	Sau. Kirtitai R. Arjun	Vice-President
4	Shri. Rajesh A. Arjun	Treasurer
5	Dr. Rajendra R. Gawai	Member
6	Shri. Rupchand H. Khandelwal	Member
7	Shri. Dharam Rajesh Arjun	Member

- **Local Managing Committee:**

Table No. 6.5 : Local Managing Committee

SN	Name	Designation
1	Shri. Karan Rajesh Arjun	President
2	Shri. P. R. S. Rao	Administrative Officer
3	Shri. A. Matin A. Majid Patel	Member
4	Shri. Gautam Gawai	Member
5	Shri. Vijay R. Bhutada	Member
6	Dr. S. M. Kherde	Principal & Member Secretary
7	Prof. N. S. Ghotkar	Teaching Staff Representative

| 8 | Prof. V. P. Nikam | Teaching Staff Representative |
| 9 | Shri. P. R. Thakre | Non-Teaching Staff Representative |

- **College council committee:**

The college council meet convened in an institution twice in a year, at the time of starting and ending of the semester. The meeting is conducted by Mr. N. S. Ghotkar (as a Council Secretary) in the presence of Ex-officio President Dr. S. M. Kherde. Various academic/ non academic agendas has discussed in the said meeting.

Anti- Raging Committee:

Table No. 6.6 : Anti- Raging Committee

SN	Name of the Representative	Designation	Cadre
1	Dr. S. M. Kherde	Principal	Head of Institute
2	Prof. S. T. Warghat	Head -Mechanical Engineering	Faculty Representative
3	Prof. A. N. Kausal	Head -Electrical Engineering	Faculty Representative
4	Prof. V. P. Nikam	Head -Computer Science & Engineering	Faculty Representative
5	Prof. N. V. Raut	Head -Electronics and Telecom. Engineering	Faculty Representative
6	Prof. T. N. Ghorsad	Head -Information Technology	Faculty Representative
7	Prof. N. S. Ghotkar	Head –Applied Sciences & Humanities	Faculty Representative
8	Prof. S. B. Yawale	NSS Coordinator	Faculty Representative
9	Shri. S. B. Yawale	Director –Department of Physical Education	Staff Representative
10	Shri. H. A. Dhumale	Administrative Officer	Staff Representative
11	Ms. P. M. Pete	Librarian	Staff Representative
12	Shri. V. N. Tikhe	Instructor – Mechanical Workshop	Staff Representative
13	Dr. Avinash Saoji	Psychologist & Physician (Prayas Counselling Centre, Amt)	Special Invitee of NGO
14	Prof. B. S. Chandak	Retd. Professor (LIT Nagpur) & Ex Principal	Faculty Representative
15	Shri Sandeep Mankar	Senior Reporter –Daily Lokmat,	Media Representative

16	Shri. S. P. Chavare	Daryapur	
16	Shri. S. P. Chavare	Police Inspector –Kholapur Police Station	Civil Representative
17	Mr. Hemant Bhadake	First Year B. E. Student (Section –A)	Student Representative
18	MS. Sakshi Shekokar	First Year B. E. Student (Section –A)	Student Representative
19	Mr. Pravin Tidke	First Year B. E. Student (Section –A)	Student Representative
20	Ms. Asmita Borole	Second Year B.E. (ELEC)	Student Representative
21	Mr. Gunjan Tambakhe	Final Year B. E. Student (EXTC)	Student Representative
22	Mr. Akshay Fuse	Final Year B. E. Student (MECH)	Student Representative
23	Mr. Shivkumar Raut	Final Year B. E. Student (CSE)	Student Representative
24	Mr. Akshay Molke	Final Year B. E. Student	Sport Representative
25	Mr. Akshay Anasane	Final Year B. E. Student	SAE Chapter Representative
26	Shri. Pradeep Kumar Abhyankar	Parent of the Student	Parent Representative
27	Shri. Sharad Khalokar	Parent of the Student	Parent Representative

- **Grievance Redressal Committee:**

Table No. 6.7 : Grievance Redressal Committee

SN	Name of the Member	Designation	Cadre
1	Dr. S. M. Kherde	Principal	Ex-officio
2	Prof. S. T. Warghat	Head -Mechanical Engineering	Ex-officio
3	Prof. A. N. Kausal	Head -Electrical Engineering	Ex-officio
4	Prof. T. N. Ghorsad	Head -Information Technology	Ex-officio

5	Prof. V. P. Nikam	Head -Computer Science & Engineering	Ex-officio
6	Prof. N. V. Raut	Head -Electronics and Telecom. Engineering	Ex-officio
7	Prof. N. S. Ghotkar	Head –Applied Sciences & Humanities	Ex-officio
8	Prof. D. B. Pawar	Sr. Faculty of Mechanical Engineering Department	Ex-officio
9	Shri. S. B. Yawale	Director –Department of Physical Education	Ex-officio
10	Ms. P. M. Pete	Librarian	Ex-officio
11	Dr. Mohana Kulkarni	Psychologist (Swanand Counselling Centre, Amravati)	Special Invitee of NGO

The institution also promote the Grievance Redressal Committee, vide SGBAU letter no. SGBAU/8/C/203/2013 Dated: 29/01/2013

Table No. 6.8

SN	Name	Designation
1.	Dr. D. T. Ingole	Chairman
2.	Prof. P.V. Ingole	Member
3.	Prof. A.P. Bodkhe	Member
4.	Dr. S. A. Ladhake	Member
5.	Shri. D.K. Joshi	Member

Women's Redressal Committee:

College also promotes Women's Redressal Committee for prevention of sexual harassment of women. In pursuance of directions of Hon'ble Supreme Court in the case of Vishaka & ors V/S State of Rajasthan & ors.

Table No. 6.9 : Women's Redressal Committee:

SN	Name of the Member	Post	Designation	Cadre as per Constitution
1	Mrs. B. S. Shete	Senior Faculty –	Chairperson	Women Professor

		Civil Engg. Department		in Education Institution
2	Ms. R. N. Bhagat	Senior Faculty – Electronics Engg. Department	Member	One Female Teacher
3	Mr. V. P. Nikam	Head – Computer Engg. Department	Member	One Male Teacher
4	Mr. S. B. Yawale	Sport Director	Member	One Male Non-Teaching Employee
5	Ms. P. M. Pete	Librarian	Member	One Female Non-Teaching Employee
6	Mrs. Mohana Kulkarni	Psychologist (Swanand Counselling Centre, Amravati)	Member	One Representative of NGO actively engaged in the welfare of women
7	Mr. Ajinkya Abhyankar	Final Year BE Student (MECH)	Member	One Male Student
8	Ms. Komal Dhage	Final Year BE Student (EXTC)	Member	One Female Student
9	Mrs. Smita Pangarkar	Practicing Lawyer	Member	One Lady Lawyer
10	Dr. Sau. Kamaltai Gawai	Founder President – SDGCT, Amravati	Member	One Representative of Management

- **Students' Welfare committee:**
  Institute treats all its student similarly, so that it can solve all their problems and treat them as a single entity. Institute has always empowered them and supported them in all possible ways throughout their journey as a student in a college. This committee includes:-

Table No. 6.10 : Students' Welfare committee

SN	Name	Designation
1.	Mr. N. S. Ghotkar	Coordinator
2.	Mr. S. S. Dabhane	Member
3.	Dr. R. N. Bhagat	Member
4.	Mr. S. S. Bangade	Member
5.	Mr. P. J. Bhadange	Member
6.	Mr. T. N. Ghorsad	Member

- **Training and Placement Committee**

Table No. 6.11 : Training and Placement Committee

SN	Name	Designation
1.	Mr. K. G. Hirde	Coordinator
2.	Mr. S. V. Bhunte	Member
3.	Mr. N. D. Wadhokar	Member
4.	Mr. K. A. Wankhade	Member
5.	Mr. A. P. Rudey	Member
6.	Mr. H. K. Lonpande	Member
7	Mr. S. V. Shinde	TNP Associate

- **National Social Scheme Committee:**

Table No. 6.12 : National Social Scheme Committee

SN	Name	Designation
1.	Prof. S. B. Yawale	Coordinator
2.	Prof. Ms. N. R. Borkar	Member

- **Student Representative Council Committee:**

Table No. 6.13

SN	Name	Designation
1.	Prof. N. V. Raut	In-Charge

- **College Coordination Committee:**

<div align="center">Table No. 6.14</div>

SN	Name	Designation
1.	Sau. Kirtitai Arjun, Vice President –SDGCT	Chairman
2.	Dr. S. M. Kherde, Principal-KGIET	Member Secretary
3.	Mr. H. A. Dhumale, Administrative Officer	Member
4.	Prof. D. B. Pawar, Coordinator -Academics	Invitee
5.	Prof. N. S. Ghotkar, H.O.D. -ASH	Member
6.	Prof. V. P. Nikam , H.O.D. -CSE	Member
7.	Prof. S. T. Warghat, H.O.D. -MECH	Member
8.	Prof. N. V. Raut, H.O.D. -EXTC	Member
9.	Prof. T. N. Ghorsad, H.O.D. -I.T	Member
10.	Dr. Ms. P. M. Pete, Librarian	Invitee
11.	Mr. Y. L. Sawai, A/C Officer	Invitee
12.	Mr. S. V. Shinde, H.R	Invitee
13.	Mr. K. G. Hirde, TPO	Invitee

- **IQAC Committee Cell:**

<div align="center">Table No. 6.15 : IQAC Committee Cell</div>

SN.	Name	Designation and affiliation
Chairperson		
1.	Dr. S. M. Kherde	Member – Campus Director/Principal
Members from the Management		
2.	Smt. Kirtitai R. Arjun	Vice President –SDGCT, Amravati
3.	Prof. P. R. S. Rao	Administrative Officer –SDGCT, Amravati
Member from Local Societies		
4.	Prof. D. V. Shirbhate	Member – Coordinator (Engg. Programs)
5.	Shri. Deep Vijay Varma	Member –Principal Scientist, MGIRI, Wardha
Eight Teachers		
6.	Prof. N. S. Ghotkar	Head – First Year Engg.
7.	Prof. S. T. Warghat	Head– Mechanical Engg.
8.	Prof. V. P. Nikam	Head – Computer Science & Engg.
9.	Prof. A. N. Kausal	Head – Electrical Engineering

10.	Prof. Mrs. B. S. Shete	Head – Civil Engineering
11.	Prof. N. V. Raut	Head – Electronics & Telecommunication Engg.
12.	Prof. T. N. Ghorsad	Head – Information Technology
13.	Dr. Ms. P. M. Pete	Librarian
Administrative Officers		
14.	Prof. K. G. Hirde	Training and Placement Officer
15.	Shri. Y. L. Sawai	Accounts Officer
Coordinator IQAC		
16.	Prof. D. B. Pawar	Faculty –Mechanical Engineering

6.2   Strategy Development and Deployment

6.2.1 Does the Institution have a formally stated quality policy? How is it developed, driven, deployed and reviewed?

- Quality Policy is reflected in vision and mission, goals (Short term & Long term) and Objectives of institution

It is developed and driven by

1. Vision and Mission of the trust
2. Expectation analysis of important stake holders including students, parents, industry and society.
3. Policies of regularity authorities.
4. Recommendations of College council, Coordination committee of Head of Departments.

   The plan for the development activities of the college are initiated by the Governing body of the institute. The management is committed in assuring quality service to all its stake holders, students, alumni, employees, employers and the community.

Deployment and reviewed of quality Policy

Quality Policy of the institute aims to establish Centre of Excellence of Technical Education and Research in Engineering and Technology by way of –

- Inducting faculty having sound knowledge in the field of Science and Engineering and to make special efforts to retain them.
- Proven good results and admitting quality students.
- Developing human capital by supporting talent, ideas and energies of outstanding individuals.
- Promoting partnerships with the quality institutes like IITs, IISc, etc., research organizations like ARAI, NCL, C-DAC, etc. & prominent corporate houses.
- Developing excellent teaching learning process by establishing cohesive bond between students & faculty.
- Healthy atmosphere with decent discipline.
- Enhance the employability, no of students going for higher studies and entrepreneurship.

The quality policy of the institute is formulated based on the vision and mission of the institute. The quality policy is driven through entire organizational structure involving Principal, head of department, faculty and students. All the stakeholders are made aware about the quality policy through institute website, meetings and other publications related to the institute. The quality policy of the institute is deployed and reviewed by the information collected through various stakeholders like students, parents, industry, faculty and staff. The institution always strives to improve its quality of programs through feedback mechanism.

Review

Regular review meetings with Governing Body, Local Managing Committee, Coordination Committee, result analysis, performance appraisal, industry interaction, placement, alumni feedback, etc.

6.2.2 Does the Institute have a perspective plan for development? If so, give the aspects considered for inclusion in the plan.

Yes, the institute has a perspective plan for the development and the following aspects are taken into account for the development.

- Norms rules and regulation of regulatory authorities
- Perspective plan for Technical education of state & university
- Strength of trust and Institute
- Demand of students (Trends of admission)
- Resources requirement

6.2.3 Describe the internal organizational structure and decision making processes.

The broad outline of internal organizational structure of the institute is shown in Fig.6.3.
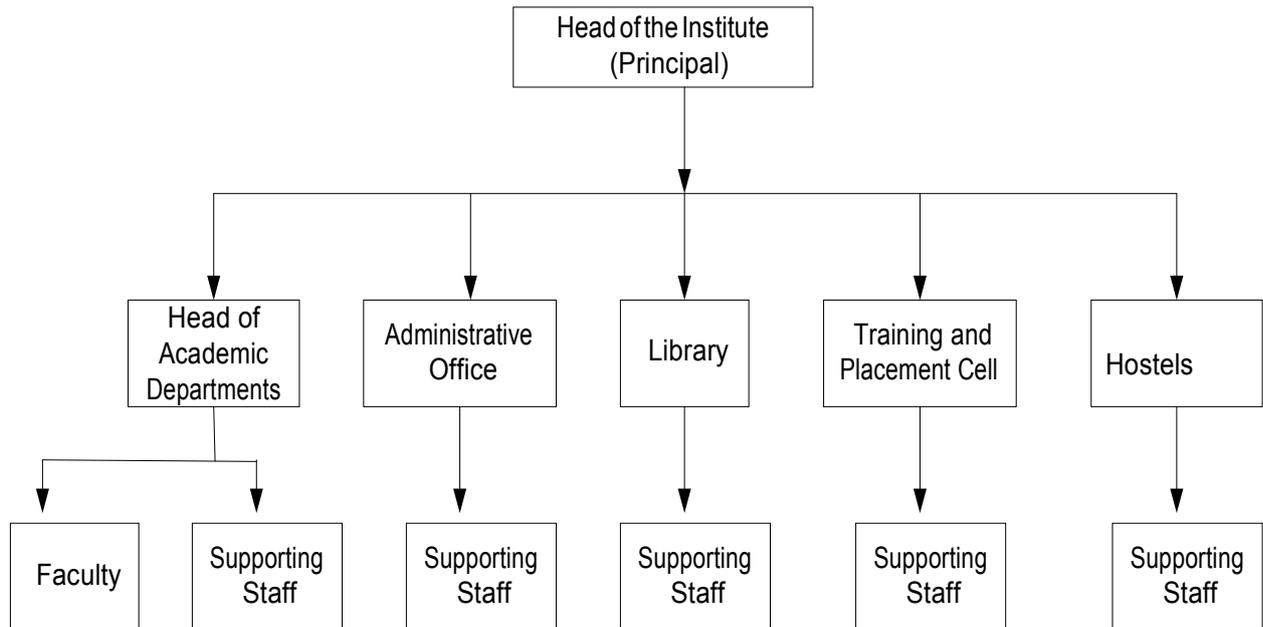
Fig. 6.3: Broad Organizational Structure of the institute

All the departments of the institute have departmental committees coordinated by faculty members and monitored by Head of the Department to keep a check on academics and effective as well as efficient performance of the department in all aspects.

- A central Academic Monitoring Mechanism evaluates the activities of the departments. A regular review of the departments is taken through this mechanism.
- Several committees are formed at institute level for appropriate coordination of the activities. Due departmental representation is ensured in central committees.
- The Local Managing Committee and Governing Body are the final approving bodies. The various committees for internal coordination and monitoring are:
  1. Governing Council
  2. Local Managing Committee
  3. Finance Committee
  4. Purchase Committee
  5. Staff Selection Committee
  6. Building Committee
  7. Website Committee
  8. Research Co-ordination Committee

9.   Information Brochure Committee
10. Technical Event (Prayukti) Committee
11. Sports Committee
12. Cultural Event (Innovision) Committee
13. Stock verification Committee
14. Grievance Redressal Committee
15. Anti-Ragging Committee
16. Time table Co-ordination Committee
17. Entrepreneurship Development Cell

The functioning of some of the committees is described below:

Finance Committee:

The Committee headed by the Head of the Institute, comprises of a team of senior faculty members. The steps in its functioning are:

- Raising of the budgetary requirements, on an yearly basis, at the department level by the Head of the Department in line with the laboratory and other requirements suggested by the department faculty
- Forwarding the budgetary requirements to the institute.
- Review of requirements of all departments by the Central Committee and forwarding it to LMC.
- Recommendation of the budget requirements of the Institute by LMC to GB for approval.
- Distribution of allocated funds by the institute within the departments
- Purchase Planning by the department as per the allocated funds.

Purchase Committee:

The Purchase Committee comprises of a team of faculty members and Head of the Department at the department level which works under the guidance of a Central Purchase Committee comprising of three senior faculty members and headed by the Head of the Institute. It's modus operandi:

- Compilation of requirement of dead stock, semi-consumables and consumables as per the requirement of individual laboratories at the department level
- Raising enquiries and seeking quotations for all the above, by the department coordinators, as per the required technical specifications.
- Making of comparative statement by the department coordinators after initial negotiations with the vendors, and identifying the vendors for final

negotiations, based on the technical specifications and quoted price

- Inviting the shortlisted vendors for a meeting with the central purchase committee
- Revision of comparatives by the department coordinators based on the negotiated price and recommendation of vendor(s)
- Final scrutiny and approval by the Departmental and then the Central Purchase Committees
- Making Purchase Orders and dispatching them to the respective vendors after due approval of the higher authorities
- Material Procurement

Stock verification committee:

The dead stock verification committee carries out a complete audit of the dead stock of each department. It is formulated once in an academic year and its functioning is as mentioned under:

- Formation of the committee by the Central Office – comprising of a main coordinator and other members (two from each department)
- Allocation of the department to a pair of faculty members for carrying out the verification for the allocated department.
- Visit of the pair of faculty members to the allocated department after due consultation with the respective head of the department
- Physical verification of the dead stock of the department along with the respective lab in- charges and technical assistants, against the dead stock register maintained by the department for each laboratory
- Recording of discrepancies (if any) and suggestion of corrective action accordingly
- Report generation after checking if suggestions have been incorporated
- Scrutiny of the reports by a central audit committee and generation of queries (if any)
- Justification of the queries by the Head of the Institute
- Final report

Faculty Selection Committee

The committee headed by the Head of the Institute, comprises of Senior Faculty Members assisted by a team of non-teaching staff. Its function is to ensure the smooth execution of the faculty recruitment process in-line with the directives of AICTE, SGBAU and the Institute. It's functioning:

- Collection of data for faculty requirement from each department (in terms of numbers, position and qualification)
- Checking it against SGBAU and AICTE norms by the committee members
- Publishing an advertisement in the newspapers and on the website in accordance with the above and inviting applications
- Scrutiny of the applications received and short-listing of candidates by the committee members with the help of non-teaching faculty
- Dispatching interview call letters to the short-listed candidates
- Branch-wise formation of panels of experts in accordance with the directives of SGBAU, Amravati.
- Sending out invitation letters to all the panel members and University appointees
- Making all the arrangements like space allocation at the venue, transportation arrangement for the panel members, etc. for conduction of interviews
- Facilitating conduction of interviews on the appointed date
- Compiling of data from all the panels and making a branch-wise list of selected candidates after approval of the higher authorities.
- Sending out appointment letters to selected candidates.

6.2.4 Give a broad description of the quality improvement strategies of the institution for each of the following:

Teaching & Learning:

Quality improvement in teaching & learning is achieved by scrupulously following the academic calendar and processes laid down by the University and the institute. The academic steps broadly comprises of:

- Published time-table with sufficient number of hours for lectures, labs, self-learning and extra-curricular activities.
- Tutorial classes to address personal level doubts and queries
- Remedial classes and additional make-up tests to help academically weaker students
- Mentoring system to help at individual levels
- Generation of self-learning facilities, and availability of materials for learning beyond syllabus.
- Contents beyond the syllabus have been identified in all the courses, which are addressed through guest lectures, industrial visits, seminars and projects

- By participation and organization of Technical events
- Through Innovative Live projects
- Students are motivated to refer to reference books, on- line/ hard copies of reputed journal papers for Self Learning and contents beyond syllabus.
- Free access to library and internet in college hours.

By having Flexibility in academics with scope for self-learning

- Open Elective
- Wider Scope for selection of Electives
- Motivation for participating in technical activities
- In plant Industry Training

These practices help in broadening and stimulating the students' thinking process and ultimately improving the quality of teaching – learning process.

Research & Development:

The institute encourages the faculty to apply for funded projects, to collaborate with research organizations for UG and PG projects, to participate in seminars and conferences as well as organize them, to publish their research work, to enroll for doctoral programs and to become members of and participate in the activities of professional bodies in their respective fields.

- Conferences and Seminars are organized by the Departments to attract researchers of eminence to visit the campus and interact with teachers and students. While organizing workshops, the focus is on imparting advanced technology, tools and techniques and research areas in the subject domain of the program. Such programs are funded by the Institute.
- Publication of research outcomes by faculty in different International and National refereed journals, books, articles in edited volumes, seminar proceedings etc. is encouraged.
- Internet, LAN and journal and e-journal subscription is made available to the faculty by the institution to facilitate smooth progress and implementation of research schemes/projects
- The Institute encourages and helps the faculty in filing patents for their research
- The Institutes promotes the faculty to associate with industry for their research project

Community engagement

- Adaptation of villages and camps as National Social Scheme activities

- Formation of various groups for specific events,
- Organization of blood donation camp and making list of blood donor available for community
- Participation in social and cultural and community development activity of the trust
- Awareness camps for cyber security in schools and Junior colleges
- Awareness programme about educational opportunities particularly technical education in villages and tribal areas
- Making infra-structure available for adjoining Junior Colleges like Ashram School
- Inviting students of adjoining institutions for solar power plant and science exhibition , project exhibition and competition

Human resource management

The Institute has the following mechanisms for better management and improvement in Human Resource:

- The performance of the teaching faculty is regularly monitored and evaluated at the department level through feedback from students and other stakeholders. Based on the feedback corrective measures are implemented for managing and improving the overall performance of the teachers.
- These activities are monitored centrally and effectively to utilize the available manpower with the institute. The Non-teaching staff is involved in supporting all the above activities.
- Visiting/guest faculty is inducted as per the necessity.
- Support for professional development of staff is provided by the institute.
- Recruitment of well qualified and experienced faculty as per SGBAU norms.
- The Institute has a budget allocated for the professional development of the faculty for supporting activities like participating in paper presentation, seminars, conferences, workshops, etc. and for programs aimed towards the skill improvement of staff.

Industry interaction

- Enhancement of Industry- Institute interaction through involvement
- Industry experts in conferences , seminars, convention , as adjunct faculty and as resource person for Welfare Scheme & training programme, Industry visit for students and faculty

- Development of beyond syllabus, technical skill development course in association with industry
- In campus and pool campus interviews for students
- Industrial Training and Internship
- To seek financial support and assistance under Corporate Social Responsibilities

Entrepreneurship cell and incubation facility

The Institute has an active entrepreneurship cell.

- Entrepreneurship Development Cell was established in 2012 with identified objectives.
- Several activities like entrepreneurship awareness camps, seminar for women entrepreneurs, entrepreneurship week, etc. have been conducted and many more are planned by this cell.
- A Technical Business Incubation center has been formed in the Department of Electronics & Telecommunication Engineering.

6.2.5 How does the Head of the institution ensure that adequate information (from feedback and personal contacts etc.) is available for the top management and the stakeholders, to review the activities of the institution?

The feedback is collected by the established mechanism from various stakeholders. The head of the institute makes a summary of this feedback available to the management.

- The feedback both online and in paper format is collected from all the stakeholders periodically
- A summary is made by Head of the Department and the same is forwarded to the Principal. It is then forwarded by the Principal to the higher authorities for review. The top management of the institute can also directly view the online feedback
- In case of any comments from the higher authorities regarding any faculty member he/she is informed about the same and instructed to bring about necessary improvements. The Fig.6.4 explains the feedback process followed at the institute.
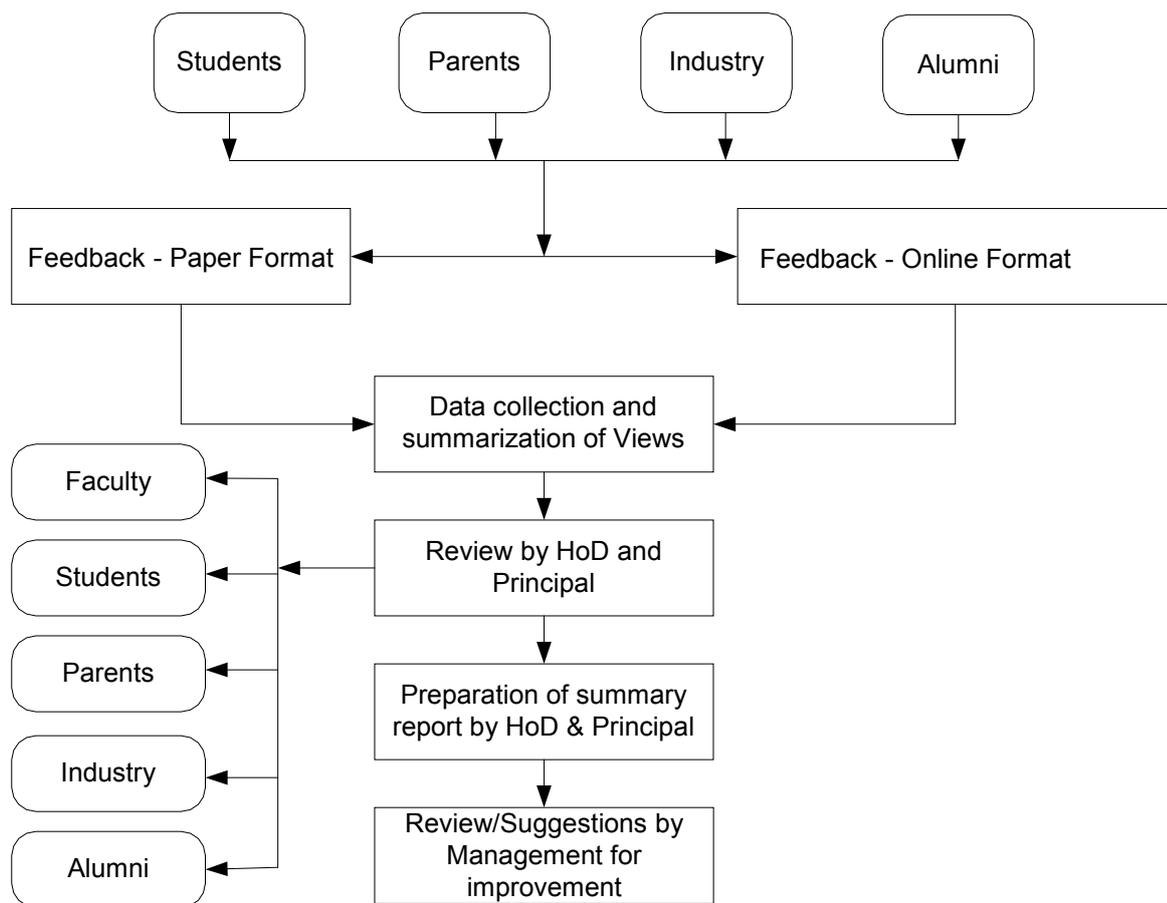
Fig. 6.4: Feedback System

6.2.6 How does the management encourage and support involvement of the staff in improving the effectiveness and efficiency of the institutional processes?

The involvement of staff in various committees listed above and hence in the decision making process of the institution ensures their participation in improving the effectiveness and efficiency of the system. The faculty members are entrusted with the responsibility of carrying out an activity completely and they are encouraged to give their feedback to further improve the smooth and efficient execution of the activity. An Example is cited here regarding the functioning of the Purchase Committee.

The Fig.6.5 shows the functioning of the Purchase Committee, in which the faculty is involved in every step of the process. The faculty has the freedom to decide which equipment should be procured based on the needs of the curriculum and research activities. They have the freedom to decide the technical specifications and also give the choice of vendors to ensure quality of the equipment procured. The entire process is transparent. Thus the faculty are involved in a big way in the

decision making process and hence in improving the effectiveness and efficiency of the institutional processes.

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┌─────────────────────────────────────────────────────────────────┐
│ Generation of requirement of dead stock, semi-consumables and    │
│ consumables items by department –by individual faculty           │
│ in-charge for labs.                                              │
└─────────────────────────────────────────────────────────────────┘
                              ↓
┌─────────────────────────────────────────────────────────────────┐
│ Segregation of items required as per -(1) Curriculum requirement │
│ and (2) R & D requirements –by departments co-ordinators        │
└─────────────────────────────────────────────────────────────────┘
                              ↓
┌─────────────────────────────────────────────────────────────────┐
│ Raising of enquiries and acquiring quotations for the required   │
│ items by department staff                                        │
└─────────────────────────────────────────────────────────────────┘
                              ↓
┌─────────────────────────────────────────────────────────────────┐
│ Preparation of comparatives by the department staff –further     │
│ verified by the department purchase committee                    │
└─────────────────────────────────────────────────────────────────┘
                              ↓
┌─────────────────────────────────────────────────────────────────┐
│ Negotiation with the vendors by the department and central       │
│ committee                                                        │
└─────────────────────────────────────────────────────────────────┘
                              ↓
┌─────────────────────────────────────────────────────────────────┐
│ Preparation of revised comparatives by the department staff and  │
│ recommendation of the vendor (s) –further verified by the        │
│ department purchase committee and approval by the Central        │
│ Purchase Committee                                               │
└─────────────────────────────────────────────────────────────────┘
                              ↓
┌─────────────────────────────────────────────────────────────────┐
│ Preparation of Purchase Orders by the Department Committee and   │
│ forwarded to the Head of Institute for approval                  │
└─────────────────────────────────────────────────────────────────┘
                              ↓
┌─────────────────────────────────────────────────────────────────┐
│ Purchase Orders forwarded to the higher authorities for approval │
│ and signature                                                    │
└─────────────────────────────────────────────────────────────────┘
                              ↓
┌─────────────────────────────────────────────────────────────────┐
│ Order placed on the vendor for material procurement              │
└─────────────────────────────────────────────────────────────────┘
```

Fig. 6.5: Process Outlines for Purchase Committee

6.2.7 Enumerate the resolutions made by the Management Council in the last year and the status of implementation of such resolutions.

- Yes the resolutions is made by the Governing Body in the last year in the

The status of the implementation/Progress is as below

Criteria - VI: Governance, Leadership and Management

Some of the Resolutions put up before the Governing Body and was approved unanimously.

Perspective Development plan

<p align="center">Table No. 6.16: Perspective Development plan</p>

S.N.	Activity(Resolution)	Action Taken
1	Completion of physical infrastructure like built up area, lab, equipments, teaching aids, library books and periodicals, for existing courses (Mechanical Engineering)	Implemented
2	Faculty cabins, teaching aids, classroom furniture	Implemented
3	Recruitment of faculty as per norms	Completed
4	Energy Conservation Methods i) Substitution by energy efficient system. ii) Power Generation (Solar energy)	Continuous Energy audit done 30KWh Solar Power plant installed
5	New Library building construction work	Almost completed
6	Development of residential building for staff members in the college premises	Construction work started
7	Installation of new Intercom system	Yet to start

6.2.8 Does the affiliating university make a provision for according the status of autonomy to an affiliated institution? If 'yes', what are the efforts made by the institution in obtaining autonomy?

1. The Institute is affiliated to the Sant Gadge Baba Amravati University. Amravati. The University has the provision for awarding autonomy. The institute is yet to become eligible for getting permanent affiliation..

2. Application for NAAC is being made

6.2.9 How does the Institution ensure that grievances / complaints are promptly attended to and resolved effectively? Is there a mechanism to analyze the nature of grievances for promoting better stakeholder relationship?

The institute has three mechanisms to resolve the grievances which are as follows:-

Dr. Sau. Kamaltai Gawai Institute of Engineering and Technology, Darapur   Page 231

a) Direct approach for immediate Redressal:-

- Class teacher
- Mentor
- Hostel Warden
- Head of Department
- Principal
- Management
- Regular Parents meet

b) Structured Mechanism:-

Institute has various committees to resolve the grievances, which are-

- Governing Body
- Local Managing Committee
- College Council Committee
- Grievance Redressal Committee
- Anti-Ragging Committee
- Women's Redressal Committee
- Students Welfare Committee
- Student Representative Council

c) Indirect/ Confidential Ways:-

Institute also has some indirect / confidential ways to resolve the grievances

- Complaint / Suggestion box
- College Website
- Students Academic Diary

6.2.10 During the last four years, had there been any instances of court cases filed by and against the institute? Provide details on the issues and decisions of the courts on these? There have been no instances of court cases.

No court case has been filed by and against the institute in the last four years.

6.2.11 Does the Institution have a mechanism for analyzing student feedback on institutional performance? If 'yes', what was the outcome and response of the institution to such an effort?

Yes, the Institution has a mechanism for analyzing student feedback on institutional performance.

The outcome and response is as follows

1. Provision of Wi-Fi in the campus
2. Improvement in canteen
3. Improvement in Teaching methodology and use of Information and Communication Technology
4. Extension of Book bank facility
5. Keeping library open for extra hours
6. Type and variety of research activities
7. Consultancy (Acceptability of the faculty/students by industry)
8. Adequacy and level of facilities in the department

6.3. Faculty Empowerment Strategies

6.3.1 What are the efforts made by the institution to enhance the professional development of its teaching and non-teaching staff?

The institute always proposes its staff for self development in academic and skill development. The Institute has organized Teacher Advancement Programs aimed towards improving the soft skills of faculty to enhance their overall performance.

- Attending workshops, conferences, seminars, short term courses, etc.
- Becoming members of professional bodies and to participate in the activities organized/sponsored by them.
- Undergoing industrial training programs and going for industrial visits
- Applying for research projects and providing support for their execution and completion and publish the research work.
- Motivation to be resource person for various workshops, conferences at various colleges. Encouragement for participation in various committees at universities, State, National, International level.
- Qualification improvement like Ph.D.
- Career advancement schemes.
- Study leave given for teachers going for higher studies

During last 2 years
Teaching Staff:

Table No. 6.17

Professional Development	Activities	Numbers
Qualification Enhancement	Ph. D Awarded:	05
	Pursuing:	07
CAS	Promoted Teachers:-	07
Professional Training	National level certification	04
Industry Interaction		04
FDP : Organized in college		07
Paper publish in conference		103
Paper publish in journal		189
Participation in national, International Conferences		10

During last 4 years

Supporting Staff:

Table No. 6.18

Professional Development	Activity	Numbers
Qualification and Skill Enhancement/ Staff Development Program:	Qualification:- Enhanced:- Graduation :- Post-Graduation:- Skill Enhancement:- Vocational/ Technical training Communication skill Training	NIL NIL

6.3.2 What are the strategies adopted by the institution for faculty empowerment through training, retraining and motivating the employees for the roles and responsibility they perform?

Table No. 6.19

SN	Strategy	Purpose
1	Induction Program	Familiarities with policies, procedures, rules etc for new faculty
2	Orientation Programme	Teaching methodology, Know your Students, Know your Subject, Academic Dairy for new faculty.
3	Awareness of new teaching methodologies	Workshop, STTP, Expert Talks, FDP
4	Awareness of advanced Technology and changes in subject syllabus	Subject wise workshop, training, expert talk.
5	Industry institute Interaction, Industry visit, inviting industry experts, Industry training	To bridge gap between industry and academy.
6	Study leave, flexibility in workload and timing,, extension of laboratory, internet and library facilities	Qualification Enhancement
7	Appreciation, Felicitation awards	Motivation

6.3.3 Provide details on the performance appraisal system of the staff to evaluate and ensure that information on multiple activities is appropriately captured and considered for better appraisal.

Annual self- assessment for the performance based appraisal system is adopted. Hence it is ensured that information on multiple activities is appropriately captured.

(Performance Based Appraisal system)
The factors of PBAS can be summarized as follows:-

PART	FACTORS FOR ASSESSMENT
1	Teaching, Learning and Evaluation Related Activities
2	Professional Development, Co-Curricular and Extension activities
3	Research, publication and Academic Contribution

- General information and academic background, courses / STTP / seminars/workshops attended during the year, Teaching – learning and evaluation related activities, Co-curricular, professional development related activities, research, publication and academic contributions.
- Remarks by Head of Department in Part A which is filled by individual faculty
- Principal as the case may be, shall give justification for his remarks if the remark of Head of Department in is not satisfactory.
- Final Review by accepting authority.

6.3.4 What is the outcome of the review of the performance appraisal reports by the management and the major decisions taken? How are they communicated to the appropriate stakeholders?
The outcome of performance appraisal reports is used for reviewing the annual progress of staff and for promotion to the next scale/designation. The outcome of performance appraisal is communicated to the faculty.
Outcome:
The outcome of the performance appraisal is that each faculty/staff becomes aware of self- weaknesses and tries to improve oneself in those areas so that they can score better in the next year
Decisions Taken:

1. Faculties whose appraisal is satisfactory have been given incentives and promotion in salary.
2. Those who are not up to mark have been informed to upgrade in concerned areas within a stipulated time.

6.3.5 What are the welfare schemes available for teaching and nonteaching staff? What percentage of staff have availed the benefit of such schemes in the last four years?

1. Provident fund, Group medical insurance, advances in case of emergency, Health club, games and sports for faculties and staff.
2. Contributory Provident Fund scheme to the teaching and non-teaching
3. Institute provides Wi-Fi facility for all teaching and non-teaching staff as well as for students in the college premises.
4. Institute provides Group Insurance Policy for teaching and non-teaching staff.

6.3.6 What are the measures taken by the Institution for attracting and retaining eminent faculty?

1. Involving them with students and faculty for discussion, teaching sessions, training programs and competitions.
2. Inclusion of valuable suggestions and recommendations in policy framing
3. Implementation of their expert guidance, advices and suggestions.
4. Offering positions of adjunct professors and subject expert/Resource Person.
5. The institute offers freedom of work and gives an opportunity to excel in the domain of individual areas.
6. It also assigns important administrative roles to the eminent faculty.
7. Additional incentives/increments are given to experienced faculty.
8. For retaining the eminent faculty, budget is allocated for staff development, advanced study, research, participation in seminar, conference, workshop, FDP etc.
9. Institute offers Pay scale as per the norms of Govt. of Maharashtra from time to time

6.4 Financial Management & Resource Mobilization

6.4.1 What is the institutional mechanism to monitor effective and efficient use of available financial resources?

- Standard Operating Procedures(SOPs),
- Budgeting,
- Control and monitoring by Events/ activity in-charges of the allocated funds.
- Audit by charter accountant

Standard Operating Procedures (SOPs):

There are Standard Operating Procedures (SOPs) for purchases, bill processing and payments.

College Budget:

The budget is obtained from all departments, as soon as the financial year starts.

The process of approval of budget:-

HOD will propose the budget of respective department to Principal.
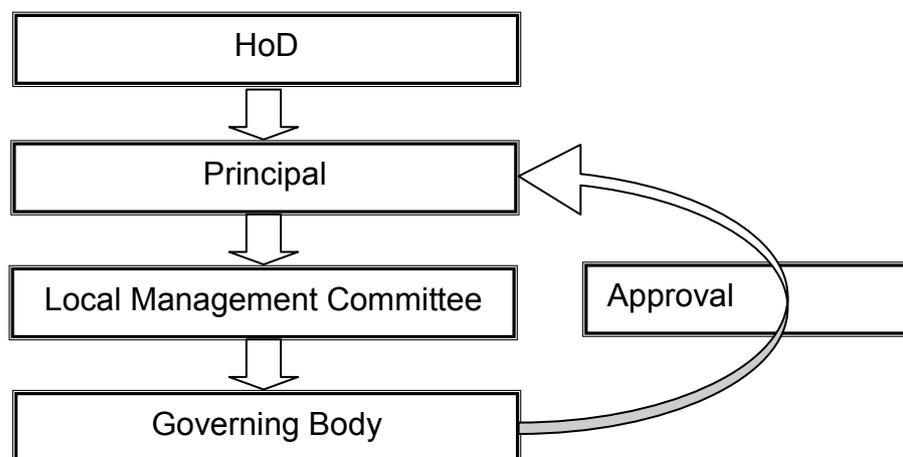
Fig. No. 6.5

Monitoring and control by Event / Activities in-charges:-

There are a number of committees and departments in the college who require finance for extra-curricular and for co-curricular activities. A proposed budget is prepared by them with the consultation of their committee members for the year Principal approves the estimated budget. The activity in charges monitor for effective and efficient use of funds made available for the year.

Audit by Chartered Accountant

(* Refer Audited Income and Expenditure statement, Fig. No. 6.6, 6.7 and 6.8)

6.4.2 What are the institutional mechanisms for internal and external audit? When was the last audit done and what are the major audit objections? Provide the details on compliance?

- College has appointed Charted Accountant for External audit of institution.
- The last statutory/External Audit is done for the financial year 2015-2016.
- There are no major audit objections.

6.4.3 What is the major sources of institutional receipts / funding and how is the deficit managed? Provide audited income and expenditure statement of academic and administrative activities of the previous four years and the reserve fund / corpus available with Institutions, if any.

The college is self-financed private (Un-aided) institution
1. The major source of receipts is Fees from the students as well as fee reimbursement for reserved category students from Social Welfare Department and Govt. of Maharashtra.
2. Investment for infrastructure is done by the trust.
3. If there is any deficit, then the Parent Trust i.e. SDGCT, Amravati, to fulfill the deficit.
4. Reserved fund (Fixed deposit with Directorate of Technical Education, All India Council for Technical Education(AICTE), University)
5. Audited income expenditure statement for 3 years.

Audited income expenditure statement for 2013-2014.

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CHARTERED ACCOUNTANTS
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Email : vsjadhaoca@gmail.com

DR. SAU. KAMALTAI GAWAI INSTITUTE OF ENGINEERING & TECHNOLOGY, DARAPUR.
M/By :- Shri Dadasaheb Gawai Charitable Trust, Amravati.
Income & Expenditure A/c For The Year Ended On 31st, March, 2014.

Expenditure	Amount	Amount	Income	Amount	Amount
To, Salary Exps.		23,450,716.00	By, Tuition Fee		19,801,123.00
Contingencies		50,730,596.50	Admi. Concellation fee		11,000.00
Hostel Exps.		704,840.00	Prospectus / Form Fee		48,960.00
			Bank Interest		45,986.00
Remunaration to Staff		2,635,000.00	Hostel Fee		767,000.00
EBC Paid		806,200.00	EBC Grant		74,945.00
Depreciation		7,098,157.00	Development Fees		2,492,628.00
			Other Income		754,606.00
			Bus Fees		2,445,000.00
			Deficit/Carried Over to B/s		58,984,261.50
Grant Total		85,425,509.50	Grant Total		85,425,509.50

PLACE : AMRAVATI

DATE 2 6 JUN 2014

V. S. JADHAO & ASSOCIATES

V. S. JADHAO
(Partner)
CHARTERED ACCOUNTANT
MEM. NO. 45400

Fig. No. 6.6

- **Audited income expenditure statement for 2014-2015**

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DR. SAU. KAMALTAI GAWAI INSTITUTE OF ENGINEERING & TECHNOLOGY, DARAPUR .

M/By :- Shri Dadasaheb Gawai Charitable Trust, Amravati.

Income & Expenditure A/c For The Year Ended On 31st, March, 2015.

Expenditure	Amount	Amount	Income	Amount	Amount
To, Salary Exps.		22,757,197.00	By, Tuition Fee		24,019,198.00
Contingencies		64,683,523.00	Admi. Concellation fee		11,000.00
Remunaration to Staff		2,075,284.00	Prospectus / Form Fee		85,800.00
EBC Paid		570,057.00	Bank Interest		68,958.00
			Hostel Fee		1,824,000.00
Depreciation		6,534,950.00	EBC Grant		570,057.00
			Development Fees		3,246,964.00
			Other Income		2,150.00
			Bus Fees		486,000.00
			Deficit/Carried Over to B/s		66,306,884.00
Grant Total		96,621,011.00	Grant Total		96,621,011.00

PLACE : AMRAVATI

DATE : 2 6 JUN 2015

V. S. JADHAO & ASSOCIATES

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AMRAVATI
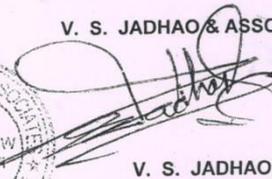
V. S. JADHAO
(Partner)
CHARTERED ACCOUNTANT
MEM. NO. 45400

Fig. No. 6.7

- **Audited income expenditure statement for 2015-2016**

V. S. JADHAO & ASSOCIATES
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DR. SAU. KAMALTAI GAWAI INSTITUTE OF ENGINEERING & TECHNOLOGY, DARAPUR .
M/By :- Shri Dadasaheb Gawai Charitable Trust, Amravati.

Income & Expenditure A/c For The Year Ended On 31st, March, 2016.

Expenditure	Amount	Amount	Income	Amount	Amount
To, Salary Exps.		3,00,53,282.00	By, Tuition Fee		2,45,95,233.00
Contingencies		6,32,76,087.01	Admi. Concellation fee		5,000.00
Remunaration to Staff		13,87,410.00	Prospectus / Form Fee		92,000.00
EBC Paid		5,75,091.00	Bank Interest		89,028.00
Depreciation		1,03,34,393.00	Hostel Fee		33,60,000.00
			EBC Grant		5,75,091.00
			Development Fees		42,88,684.00
			Other Income		4,650.00
			Bus Fees		39,60,500.00
			Interest On Buil. / Reserve		1,26,801.00
			Deficit/Carried Over to B/s		6,85,29,276.01
Grant Total		**10,56,26,263.01**	**Grant Total**		**10,56,26,263.01**

PLACE : AMRAVATI

DATE : 2 4 OCT 2016

V. S. JADHAO & ASSOCIATES

V. S. JADHAO
(Partner)
CHARTERED ACCOUNTANT
MEM. NO. 45400

Fig. No. 6.8

6.4.4 Give details on the efforts made by the institution in securing additional funding and the utilization of the same (if any)

For acquiring additional funding, the institute generates revenue through projects sponsored by organizations like DST, AICTE (various schemes and Seminar, etc.,) BCUD, Consultancy work and others.

6.5 Internal Quality Assurance System (IQAS)

6.5.1 Internal Quality Assurance System (IQAS)

A. Has the institution established an Internal Quality Assurance Cell (IQAC)? If yes, what is the institutional policy with regard to quality assurance and how has it contributed in institutionalizing the quality assurance processes?

Yes the institution has established an Internal Quality Assurance Cell. IQAS aspires to lay down standards and best practices as paradigm for attending a bench mark in an individual institution for the upliftment of learning out comes in the domain of higher education imparted to students. IQAS is headed by the senior co-ordinator (Academics) and the three heads of respective departments along with two non-teaching senior members of the institution.

The committee inspects the institution quarterly to ensure the following practices –

- Curriculum Planning :
- Teaching learning process :
- Student Assessment and Performance :
- Co-scholastic Processes and Outcomes
- Infrastructure – Adequacy, Functionality and Aesthetics
- Human Resources
- Arrangement for feedback response from students, parents and other stakeholders on quality-related institutional processes

Table 6.20: IQAC Members and Designation

SN.	Name	Designation and affiliation
Chairperson		
1.	Dr. S. M. Kherde	Member – Campus Director/Principal
Members from the Management		
2.	Smt. Kirtitai R. Arjun	Vice President –SDGCT, Amravati
3.	Prof. P. R. S. Rao	Administrative Officer –SDGCT, Amravati
Member from Local Societies		
4.	Prof. D. V. Shirbhate	Member – Coordinator (Engg. Programs)
5.	Shri. Deep Vijay Varma	Member –Principal Scientist, MGIRI, Wardha
Eight Teachers		
6.	Prof. N. S. Ghotkar	Head – First Year Engg.

7.	Prof. S. T. Warghat	Head– Mechanical Engg.
8.	Prof. V. P. Nikam	Head – Computer Science & Engg.
9.	Prof. A. N. Kausal	Head – Electrical Engineering
10.	Prof. Mrs. B. S. Shete	Head – Civil Engineering
11.	Prof. N. V. Raut	Head – Electronics & Telecommunication Engg.
12.	Prof. T. N. Ghorsad	Head – Information Technology
13.	Dr. Ms. P. M. Pete	Librarian
Administrative Officers		
14.	Prof. K. G. Hirde	Training and Placement Officer
15.	Shri. Y. L. Sawai	Accounts Officer
Coordinator IQAC		
16.	Prof. D. B. Pawar	Faculty –Mechanical Engineering

B. **How many decisions of the Internal Quality Assurance Cell (IQAC) have been approved by the management / authorities for implementation and how many of them were actually implemented?**

IQAC decisions are taken seriously by the respective management and implemented positively on priority basis. Below is the list of recommendations and decisions.

Table 6.21: Decisions of the IQAC approved by the Management

Recommendation	Management Decision	Status
Academic Audit System	Approved	Implemented
Industry-Institute interaction	Approved	Implemented
Wi-Fi facility in campus	Approved	Implemented
Arranging STTP/FDP	Approved	Implemented
To apply for NAAC	Approved	Implemented

C. Does the Internal Quality Assurance Cell (IQAC) have external members on its committee? If so, mention any significant contribution made by them.

Yes in addition to IQAC, there team of two senior members from the sister organization of the trust that visits the institution every month to monitor the above practices.

From Human resource: Prof. P. R. S. Rao

Contribution: Monitors the academic excellence and implement faculty improvement programme.

From Industry: Shri. M. M. Nand, MD, M&M Industries, Akola, M.S.

Contribution: Inputs on syllabus restructuring and sponsorship and guidance for students projects

D. How do students and alumni contribute to the effective functioning of the Internal Quality Assurance Cell (IQAC)?

Alumni association is an asset to the institution. We take pride in having our alumni working in different areas of corporate world and at a very prestigious level. The institution conducts Alumina meet every year to felicitate interaction among the students. Contribution of Alumina in IQAC has been listed below-

- Sponsoring research, student projects or courses,
- Providing expert advice and guidance to the current students,
- Providing, guest lectures, equipment or similar to enhance teaching,
- Supporting student recruitment both at home and overseas,
- Providing careers advice, mentoring, placements, internships to current students,
- Acting as positive role models to current students,
- Sharing talents to enhance the cultural life of campus through performances, exhibitions, etc.,

E. How does the Internal Quality Assurance Cell (IQAC) communicate and engage staff from different constituents of the institution?

An **IQAC communicates** through notices and co-ordination committee meet and digitally. Respective staff members from all the departments of the institution are assigned portfolios and they are expected to work on the guidelines of the IQAC. Feed backs are taken after stipulated time to assess the output of the task given.

The portfolios include –

- Scholastic and Co-Scholastics activities implementation and results.
- Teaching Learning process
- Student Performance and Assessment
- Internal audit etc.

6.5.2 Does the institution have an integrated framework for Quality assurance of the academic and administrative activities? If "yes", give details on its operationalization.

Teaching and Non-teaching staff have been shouldered both academic & Administration work to assist IQAC according to the experience and capabilities. College system and its operation have been split up into different segments.
They are as follows:

1. Smooth conduct of centralized admission process
2. Approval to the list of admitted students.
3. Smooth and flawless conduct of university examination
4. Application & accreditation by NAAC
5. Formation of Self Study Report committee & Preparation of SSR.

6.5.3 Does the institution provide training to its staff for effective implementation of the quality assurance procedures? If 'Yes', give details enumerating its impact

Yes, the institute organizes various training programmes for teachers on institute or departmental level. The Teachers Academic Excellence Programme (TAE) has been implemented for teaching staff from the last academic session. Following are the details of the programmes.

Table No. 6.22: Teachers Academic Excellence Programme

SN	Programme	Agency	Objectives
1.	Teacher's Soft Skills development Programme	Internal	• To improve Communication skills. • To teach Impressive presentation skills
2.	Employee Motivational workshop	Academic Excellence Cell of SDGCT, Amravati	• To develop Skills to motivate & influence others, be courteous, increased tolerance & openness. • Skills for improved Collaboration with colleagues. • To improve Adaptability and Flexibility.
3.	Train The	SDGCT,	• To bring uniformity in teaching

	Trainer (TTT)	Amravati	processes and methodologies in the colleges under STES • To train the teachers by experienced faculty for the depth of the content delivery

6.5.4 Does the institution undertake Academic Audit or other external review of the academic provisions? If "yes", how are the outcomes used to improve the institutional activities?

Yes, the institute conducts academic audit every year before the end of the academic year. A team of HODs counter checks teacher's Course file, syllabus coverage and exam result and attainment. Every academic report is communicated to the respective teachers in each department and to the Internal Quality Assurance Cell for necessary action. This Academic Audit helps the staff members to remain up to date related with teaching learning process, monthly cumulative academic report.

External academic review
- Performance based analysis final review by external experts
- Local Enquiry Committee by affiliating University
- Inspection /visits of statutory / regulatory body like: Directorate of Technical Education / All India Council for Technical Education/ University

- **Outcomes used to improve the institutional activities as:**
- Compliances have to be made to get continuation of affiliation, admission of approval students list and approval from All India Council for Technical Education (AICTE)

6.5.5 How is the internal quality assurance mechanisms aligned with the requirements of the relevant external quality assurance agencies/regulatory authorities?

The Institute's internal Quality assurance mechanisms such as Internal Quality Assurance Cell(IQAC), statutory committees, and committees to support administrative and academic activities are functioning to fulfill the requirements of All India Council for Technical Education (AICTE), University ,National Board of Accreditation (NBA), Directorate of Technical Education (DTE), Maharashtra Government.

Table No. 6.23: Internal Quality Assurance Mechanisms

SN	Quality Assurance Mechanism	In Alliance with
1.	Infrastructure: No. of classrooms, laboratories, library, computer centre	In compliance with AICTE Norms
2.	Faculty: Number, cadre, qualification as per norms, selection of faculty	As per AICTE
3.	Teacher's work- load	As per affiliated University
4.	Teaching & Examination scheme including internal assessment	As per affiliated University
5.	Faculty development	As per University/AICTE
6.	Admissions	As per state govt. (DTE)
7.	Library Infrastructure	As per University/AICTE

6.5.6 What institutional mechanisms are in place to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?

Table No. 6.24: Teaching Learning Process

T- L Process Step	Reviewed by	Outcomes
Preparation of teaching plan, session plan, target for Key performance areas	HoDs	Planning and target setting
Implementation of Plan	Co-ordination committee Feedback	Timely corrective measures
Student Mentoring	Teacher Mentors	Response to student's apprehension and enhance learning
Internal Assessment	Subject teacher	Course outcomes
External Assessment	University	Course outcomes

6.5.7 How does the institution communicate its quality assurance policies, mechanisms and outcomes to various internal and external stakeholders? Any other relevant information regarding Governance Leadership and Management which the college would like to include.

The institution communicates its quality assurance policies, mechanisms and outcomes to the various internal and external stakeholders as follows: Vision, Mission, Quality Assurance policies are displayed on the website of the institution. Vision and Mission statements are displayed and published in brochure, teachers/students diary, and circulation areas at prominent places in campus, merit holder students at Sant Gadge Baba Amravati University SGBAU.

1. Publication of academic diary for students & faculties
2. Parent meets
3. Induction programme
4. Visits to industry
5. Publication of brochure
6. Communicate during enquiry committee/ inspection visit from University/ All India Council for Technical Education (AICTE)/ Directorate of Technical Education (DTE)
7. Publicity through electronic & Print media
8. Felicitation Programme

6.5.8 Any other: About Parent Trust Dadasaheb Gawai Charitable Trust

Dr. Sau. Kamaltai Gawai Institute of Engineering and Technology (KGIET), Darapur is established under the flagship of Shri. Dadasaheb Gawai Charitable Trust, Amravati. The Trust provides qualitative and invaluable service in the field of education, especially for the poor and the down trodden classes of the society. The Trust was started by our Hon'ble Patron, Shri. R. S. Gawai. Today the Dadasaheb Gawai Charitable Trust runs 39 Institutions, from Primary schools to colleges and works for upliftment of society particularly in education sector.

CRITERION VII : ENVIRONMENTAL CONSCIOUSNESS

7.1 ENVIRONMENTAL CONSCIOUSNESS
7.1.1 Does the College conduct a Green Audit of its campus?
Yes. The college is conducting green audit in its campus every year. Green Audit of campus is conducted by a team of senior faculty members from Civil, Mechanical and Electrical engineering with good industrial experience. All of the inmates of the campus are well aware about the outcomes of campus pollution and exercise green initiatives in as many methods as viable. The campus is free from plastic and also blowing horn is strictly prohibited within the campus. Plenty of Neem, Ashoka trees have been planted inside the campus which keeps the campus green, shady and cool. The green audit of our campus covers the following areas

- Green coverage in campus with trees
- RO water treatment and its management
- Sewage (Hostel & Campus) treatment and its management
- Kitchen and dining waste management
- Lawn territory management

7.1.2 What are the initiatives taken by the College to make the campus eco-friendly?

- Energy conservation
- Efforts for Carbon Neutrality
- Plantation
- Hazardous waste management
- e-waste management
- Solar energy plant
- Rain water harvesting plant
- Any other

The College gives great emphasis to maintain a green and eco-friendly campus. A dedicated Management team is functioning for this purpose. The initiation has been taken in these areas concerned with environment are as follows:

Energy Conservation
- College adopts various energy conservation measures like switching off the lights / fans in the classrooms/corridors/toilets when not in use.
- Existing conventional lamps are replacing with LED/CFL lamps.

- Display boards are placed for energy conservation and saving of water in the campus.
- Sprinkle system and drip irrigation system are in practice for the lawns and trees.
- Recycling of water.
- Highly structured buildings with sufficient natural ventilation and lighting.
- Tree plantations have been done by NSS unit.
- High natural lighting and ventilation to minimize lighting needs.
- Power factor is maintained close to unity.
.

Efforts for Carbon Neutrality
- Campus is smoke free and use of tobacco products is completely banned.
- A large number of trees are planted in the campus and a nursery has been established for this purpose.
- Campus is plastic-polythene free zone, which makes the campus eco-friendly.
- The college has taken up steps to prevent the emission of carbon dioxide.
- The dead leaves and the waste papers are not allowed to be put on fire.
- The leaves are buried in the soil itself and the papers are disposed off.
- In addition, the following practices have been adopted in the campus for carbon neutrality.
- Pooling of vehicles for students and staff.

Plantation
Planting trees and developing lawns and gardens are regular features in the campus.
. Greeneries in the campus are developed and nurtured on a continuous basis.

Fig: 7.1: Greeneries in the campus

Fig: 7.2: Tree Plantation program

Hazardous waste management

- Chemical wastes are handled with care and offloaded with precautions.
- Guidelines issued in this connection are strictly followed.
- Gas-storage and handling are done as per the established norms.

E-waste management

Outdated computers in working condition are collected and donated to the nearby educational institutions. UPS batteries are exchanged with new ones.

Dust bins are provided in all class rooms

All classes are provided with dustbins for effective garbage disposal.

Renewable Energy conservation

45kW on grid solar panels have been installed in the Electrical and Mechanical Building.

Any other

Awareness Programs and Camps

The college frequently conducts socially applicable recognition applications and campus via its several clubs such as NSS. College aware students as well as people about importance of cleanliness, blood donation, water storage, cashless INDIA etc. through various social awareness program.

Fig: 7.3: Swach Bharat Abhiyan

Fig: 7.4: Constructing Dam On River Under Shram Dan Yojna at wathoda shukleshwar.

Fig: 7.5: Social Awareness About Cashless INDIA

Fig: 7.6: Blood Donation Camp

Fig: 7.7 : Women Empowerment Workshop

Fig: 7.8: Solar Energy Plant

Fig: 7.9 : Rain Water Harvesting Plant

7.2 Innovations

7.2.1 Internal Quality Assurance System

Has the institution adopted any mechanism/ process for internal quality checks?

The college has adopted mechanism / process for internal quality checks through departmental and college administration, which supervise and monitor the conduct of academic and administrative activity in regular fashion. Various mechanisms / processes adopted are:

1) Ensuring effectiveness in Teaching;

2) Uninterrupted Teaching;

3) Effective learning

4) Daily attendance monitoring of students;

5) Ensuring uniform course coverage;

6) Effective evaluation; and

7) Encouragement for R&D

7.2.2 How does the institution ensure the quality of its academic program?

Quality of Academic program is sustained through:

1. Ensuring effectiveness in teaching: Teachers are encouraged to use electronic teaching aids such as OHPs, LCD etc. wherever necessary. Students' opinion on teaching effectiveness is taken on 2 different occasions. First is at the end of 4 weeks of instruction, second at the time of 14th week of instruction. These two feedbacks are shared with the faculty members concerned so that mid-course corrections can be taken up by the faculty concerned. The faculty members are counseled if their feedback score is not up to the mark. This is ensuring effectiveness in teaching and hence the quality.

In order to make the students self learners, the college has been preparing and distributing course files and lab manuals to all the students.

a) Course files - give the syllabus content, lecture schedules, rudiments of each of the units in the subject concerned. This gives overall idea and also indicates the depth up to which the study is expected to be carried out. The end exam questions (both long answer and short answer types) are also incorporated in the course files so that the students will solve these problems and get an idea of effectiveness in answering the question papers.

b) Lab manuals – these are prepared for each of the laboratory which the students go through and given to every student. This manual gives the list of the experiments to be carried out, the aim of each experiment, the equipment used, the theory and procedure for doing experiment and glimpses of the analysis of the

results are indicated. Thus the students are expected to read before hand so that when the students go to the laboratory, they can straight away conduct experiments, analyze the results and draw conclusions.

c) Visual aids – OHPs are provided in every class room and the teachers are trained to use visual aids effectively. LCD Projector is made available in seminar halls and in the respective departments for teachers if they wish to use. Recently college started fixing LCDs almost in all class rooms.

2. Daily monitoring of teachers' attendance and their taking classes allotted to them as per time table. No class remains free without a teacher any day. If any teacher has taken leave or absent due to any reason, the concerned teacher/HoD is required to make the alternative arrangement for taking his class. This ensures that students are provided instruction by teachers' whole day without a gap. This ensures discipline and also helps completion of syllabus in time.

3. Ensuring effective learning in the KGIET, mid tests are conducted 3 times in a semester which is leading to better concentration on the part of the students to understand and assimilate the subject. Besides this, 3 assignments are being given in each semester in each subject so that the students will have to do similar study for his/her end examinations which promotes student centered learning. A novel initiative is also taken for giving some weightage to attendance. In the UG programme, where the sessional marks are 10, 5 marks are allocated for attendance and 5 marks for the assignment submission. This is promoting students' attendance enormously and hence the academic environment is improving.

4. Daily monitoring of attendance in each class of each student and reporting the same to parents. Problems of continuous absence of anyone are also taken up with their parents. Quite often we call the parents for advising them on seriousness of shortages in attendance which may result in detaining of the student, causing loss of an academic year.

`**5.** HODs monitor the progress course coverage on each theory and practical class, thus ensuring uniform course coverage matching with the Mid-test requirement. HoDs make sure that tutorials and assignments are regularly conducted as per time schedules. The college ensures maintenance of exam schedules for Mid-test as well as semester examinations.

6. Effective evaluation: As stated above, the evaluation in each theory subject

is as follows:

Sessional marks - 10 + 5M for assignment+5M for attendance

End semester Exams - 80

Total - 100

7. Encouragement for R&D:

Teaching and Research must go together. With this aim, research is promoted by the college in the following ways and means: Teachers are given 6 months leave to complete their work during their Ph.D work. Encouragement for publication of papers in international journals based on the impact factor of the journal. J-GATE and ASME membership and subscription with all transactions to access: Senior professors of the department are given membership by the college and all transactions are subscribed to library which is helping all the teachers and PG students to use them for their research work. Recently comfort with Ph.D. degree four members & total seven members are pursuing. This is helping to promote research culture in the college among the teaching community which will definitely have a bearing on the teaching process.

7.2.3 Describe the strategies evolved in promoting innovations in teaching, learning and evaluation?

The main strategies for innovation in teaching learning and evaluation are as follows:

a) Updating the curriculum content to match with the requirements in job market, national priorities, and global direction in technological development.

b) Creating a conducive teaching learning environment with class rooms equipped with modern tools like visual facilities, good ambience in the class rooms, continuous monitoring of progress in lecture schedules matching with the examination pattern.

c) Regular feedback from students on teaching effectiveness is paving the way for mid-course corrections through counseling.

d) Creating modern supporting infrastructure like library equipped with, digital library, which provide online access to large number of national/international technical journals. Wi-Fi, internet are made available in the campus.

e) Well defined rules and regulations of conducting examination and maintaining high level of confidentiality through various measures from the start of paper setting to the end of declaration of results. The scheme of evaluation includes increased number of assignments, mid-sessional tests and weightage given to attendance. This

has influence on effectiveness in learning.

f) A right balance in internal and external examinations (20 & 80 Marks respectively)

7.2.4 Elucidate some of the innovations in research and extension? What initiatives have been taken by the institution to give a significant thrust to research and development in the program?

1. Encourage the staff for applying research projects to funding agencies like AICTE, DRDO, CSIR, DST and ISRO etc.

2. Encourage all the staff to register for Ph.D. qualification and publish papers in Conferences/journals. Financial & non financial incentives are given to faculty & staff to carry out research work. Further staff members are given TA/DA, registration fee, etc. to attend the conferences to present the papers. The faculty are given cash incentives for publishing research papers in national and international journals.

3. The faculty is provided adequate time/duty leave to interact with external guides for their research work. Every teacher spends 2 hours extra in the college in a week to accelerate their work.

4. The college invested adequate funds in developing infrastructure of test equipments, hardware, software tools (beyond practical labs requirement of curriculum) to support internal R&D and project work.

5. Arranging guest lectures by the eminent professors from Universities, IITs and researchers from Industries and R&D organizations.

6. All the departments in the institution conduct seminars, workshops, conferences in their areas of academic interests on regular basis for the benefit of staff to engage themselves in research activity.

7.2.5 What mechanisms have been developed by the institution for quality assurance?

Within the existing academic and administrative system?

The mechanisms used for quality assurance are:

1. Student feedback at regular intervals.

2. Parent – teacher interaction.

3. Departmental committee meetings

4. R&D and consultancy cell is created to monitor the research activities going on in the department.

5. Student activities co-ordination committee is formed to monitor various

curricular, co-curricular and extra curricular activities organized by the students.

6. Library and Learning Resources Committee is formed to purchase latest books subscribe quality journals, establish digital library, and create centralized learning resources.

7. Disciplines, Anti-ragging Committees are formed to create discipline among the student community.

8. Administrative support to a student with regard to their scholarships and privileges given by the Govt. and their implementation, addressing their grievances, and regard interaction with their parents etc are dealt with administrative staff with well set rules and regulations. For this purpose different sections have been created in the administration to handle these activities and resolve them.

9. Providing adequate tutorial and remedial coaching for slow learners.

10. Administrative system is transparent and non-interfering.

11. Close monitoring and frequent Heads meetings.

7.2.6 What are the functions carried out by the above mechanisms in the quality enhancement of the institution?

The functions of various mechanisms are detailed here under:

1. Feedback is taken regularly to monitor and improve the teaching process.

2. College conducts parent teacher meetings so that the parents can learn about their ward's progress and attendance. The parents also give their opinions on various aspects of institutional functioning.

3. The quality enhancement function of Departmental Committee proactively work for finding out the gaps and need for improvements in various activities of the department such that quality and standard of teaching learning process and R&D activities and infrastructure will be improved year to year.

4. Members of Board of Studies and faculty members in respective departments review the technical content of each subject and the need for change at unit level or topic level to improve the content for future curriculum development.

5. Discipline, Anti-ragging Committee works like the watchdog on daily basis about the issues on discipline within the campus. Anti-ragging aspect is extensively monitored in the first semester of academic year with deployment of staff in the college buses, boarding points etc, near the canteen and vulnerable points within the campus toward against any attempt of ragging or harassment. The students of II, III, IV year are not allowed to mix with I year students. Allocation of Class rooms for newly admitted students year students are arranged isolating from senior students in exclusive newly admitted students year block.

6. Each administrative section is responsible for conducting their activities within prescribed directives, rules and regulations with the sense of service to students. Every attempt is made that transaction between student and concerned department is like single window service.

7.2.7 What role is played by the students in assuring quality of education imparted by the institution?

The students are well received the initiatives taken by the college, and is reflected in regularity, performance in mid and external examinations, placements and admission in to master's program in India and abroad.

7.2.8 What initiatives have been taken up by the institution to promote best practices in the institution? How does the institution ensure that the best practices have been internalized?

Quality professional education with relevance to practical exposure through labs, workshops, local visits, educational tours, mini projects and final year projects are created to improve professional skills. Campus recruitment training is offered by the institution and bears 50% of fee charged by the training agencies. Commitment of excellence by subscribing to journals, online access on research journals for the benefit students and faculty members. 45kW Solar Power Plant is installed in the campus and is functioning very well. This is an example of making eco-friendly campus. Approximately 1/3 rd of the power required by the college is met by the plant. Continuous evaluation and monitoring of performance of teachers based on feedback collected from the students and pass percentage in subject handled by them. Introduction of tutorial classes, remedial classes, finishing school is integrated in to the time table. This practice has improved the pass percentage of students and has helped in developing learning abilities among the students. Tutorial classes helped the students in solving problems. E learning, video lectures from NPTEL lectures have enhanced the teaching learning process. Several innovative methodologies like, quizzes, personality development, cross word puzzles, real time demonstrations, group discussions have been introduced. The principal has appointed a review committee to review all academic activities. The curriculum is devised into modules and the time schedules are planned in advance. In case of shortage, in curriculum design and development, add on subjects and add on experiments are included.

Over and above the subject, stipulated by the University about 10 % more content is taught to the students where ever required to give wider knowledge base to the

students. More electives are offered to suit the requirement of students. Students are encouraged to carry out projects in the college. Students are made to write their project reports. This will enhance the report writing among the students. Students profile is collected at the time of admission based on their economic conditions, rural background, medium of instruction, till that date and it helps in orienting the students to the engineering education. Based on this bridge courses and value added courses are framed. Students who performed well in their academics and in sports and games are given prizes and certificate of merit on annual gathering. The best student project in each branch is identified and the student is suitably awarded. Innovations in teaching learning methodology is introduced with audio visual aids, demonstration experiments, OHP/LCD projectors, guest lectures, industrial visits etc., apart from the regular black board teaching.

7.3 Best Practices

7.3.1 BEST PRACTICE-1

1. Title of the Practice Inculcating the Spirit of Research among Faculty for a Progressive Technological growth

2. Objectives of the Practice

- To improve the teaching learning process
- Improve quality in teaching and UG and PG projects
- Publish papers in refereed International Journals and Conferences
- File patent applications in market-dependent countries
- Assert relationship with multi-national research labs
- Submit proposals to several funding agencies

3. The Context

Research is a never ending quest for knowledge, which may be used to promote progress for the society. Today's world is rapidly developing giving way and scope for new research initiatives to have a still better life. To keep up one self in pace with the growing needs and demands has become most essential parameter. To meet such demands a continuous research and development of new products and projects has become the need of the hour. This motivated the college to strengthen R&D activity that focuses on various independent domains and encourages multi disciplinary research.

4. The Practice

Teaching and Research must go together. With this aim, research is promoted by the college in the following ways and means:

1. Teachers are given special leave if needed to complete their work during their PhD Work.

2. Encouragement for publication of papers in international journals based on the impact factor of the journal.

3. J-GATE & ASME membership and subscription with all transactions to access: Senior professors of the Department are given membership by the college and all transactions are subscribed to library which is helping all the teachers and PG students to use them for their research work.

4. PCS with internet and Wi-Fi facility for all teachers who are pursuing research.

5. Evidence of Success

Owing to the hard work done by the members of faculty, the following achievements have taken place in the organization

No. of teachers availed the facility and obtained their PhD: **05**

No. of teachers availed the facility and pursuing their research: **07**.

No. of international publications by the faculty: **136**

No. of national publications by the faculty: 88

6. Problems Encountered and Resources Required

Trying to inculcate the habit of doing research among many faculty which helps them to grow and college too. They are given less teaching load and weekly off if they complete Pre Ph.D. Recruiting additional teachers to compensate causing financial burden. More PG courses are introduced recently so that teachers can teach advanced subjects which helps them in their research. Trying to get qualified and experienced teachers to fill the gap. Industry institute interaction should be improved. Identified some industries and getting tied up to improve quality in research.

7. Notes:

The college management and Principal have a strong vision and believe that the teaching and research must go together. They are constantly encouraging the teachers of all Departments to register for Ph.D and strive hard to publish papers, do some experimental work and submit thesis.

8. Contact details

Name of the Principal: Dr. S.M. Kherde

Name of the Institution: Dr. Sau. Kamaltai Gawai Institute of Engineering and Technology Darapur,Tq:Daryapur, City: Amravati.

Pin Code: 444814

Work Phone: 7720032432

Website: E-mail: principal@kgiet.ac.in,

Mobile: 7507473232

7.3.2 Best Practice- II

1. Title of the Practice

   Enhancing the employability of engineering graduates

2. Objectives of the Practice

   - To initiate training to all the students when they are in 2nd Year of study with the slots provided in the regular time table.
   - To conduct Seminars and Guest Lectures by an experienced HR faculty.
   - To provide material prepared by experts.

   To train the students in the fields of soft skills, Communication skills,

Intrapersonal skills and preparing them to face interviews and get better placement.

3. The Context:

Most of the students have vernacular back ground who have come from villages. Communications in English is a big challenge for them. Many of the students may not have basic concepts of the subjects as they were not taught about the importance of basic concepts at Intermediate level. Students are not aware of the skills required for employability.

4. The Practice "We have introduced value added courses on "Verbal Ability, Logic and Reasoning", "Quantitative Ability" in the curriculum B.E. 2nd year. The topics covered in this course, will enable the students to track the online-assessment test conducted by various companies for campus recruitment process. It also helps the students in competitive exams such as GATE, GRE, GMAT etc.

We have allotted special slots in B.E. 3rd year time-table, II semester for "Soft Skills Sessions" by corporate experts. These sessions will help the student in attending HR Interviews.

We conduct Intensive Campus Recruitment Training (CRT) sessions for all the III-B.E. Students during their summer vacation. Experienced in-house teachers conduct the classes on concepts and fundamental principles. These sessions will help the students to crack technical interviews during campus recruitment. Further it changes mind set from student attitude to Corporate mind set, take responsibility and deliver, time management and ensure clearing all backlogs by 3 - II to be eligible for placements. Mock Interviews and Case based GD's, Leadership Talks and competitions also conducted on regular basis to help students understand and analyze real time issues in corporate.

EVALUATIVE REPORT OF THE DEPARTMENT

Mechanical Engineering

1. **Name of the department** : Mechanical Engineering

2. **Year of Establishment** : UG (MECH) – 2008
   PG (CAD/CAM) - 2012

3. **Names of Programmer / courses offered:**

Courses	BE. - Mechanical Engineering	ME. - Mechanical Engineering CAD/CAM
Year of Establishment	2008	2012

4. **Names of Interdisciplinary courses and the departments/units involved** :

Department Involved	Name of the Courses
Science and Humanities	Engineering Mathematics- III
	Communication Skill.
Electrical Engineering	Basic Electrical Drives and Control
	Machine Laboratory
Electronics and Communication Engineering	Consumer Electronics
Computer Science and Engineering	Introduction to Computer Network
Information Technology	E-commerce.
Civil Engineering	Mechanics of Material

5. **Annual/semester/choice based credit system (programme wise)** :

Courses	Pattern
B. E. Mechanical Engineering	Semester based Credit Grade System
M. E CAD/CAM	Semester based Credit Grade System

6. **Participation of the department in the courses offered by other departments**

Courses offered by other departments	Number of Faculty engaged
All Engineering Programmes	Engineering Graphics
	Engineering Graphics Laboratory
Information Technology	Principles of Management
Electrical Engineering	Non-Conventional Energy System.
	Energy Resource Generation.
Civil Engineering	Fluid Mechanics.

7. Courses in collaboration with other universities, industries, foreign institutions, etc. :

Name of the Agency	Certification / Courses Offered
ADCC Academy Pvt. Ltd.	CATIA V5 R17.
Vikramshila Polytechnic, Darapur	AutoCAD R16

8. Details of courses/programs discontinued (if any) with reasons: --- NIL---

9. Number of teaching posts :

Posts	Sanctioned	Filled
Professors	01	01
Associate Professors	00	00
Assistant Professors	29	29
Total	30	30

10. Faculty profile with name, qualification, designation, specialization,(M.E., M. TECH., M.Sc./D.Sc./D.Litt./Ph.D./M.Phil.etc.,) :

Name of the Faculty	Qualification	Designation	Specialization	No. of years of experience	No. of Students Guided ME	No. of Students Guided Ph.D
Prof. Dr. S. M. Kherde	Ph. D	Professor	Prod. Engg	27	7	01
Mr. S. T. Warghat*	M. E	Asstt. Prof.	CAD/CAM	9	7	---
Mr.. M. M. Patil*	M. E	Asstt. Prof.	Prod. Engg.	9	6	--
Mr. D. B. Pawar	M. E	Asstt. Prof.	CAD/CAM	12	7	--
Mr. P. J. Bhadange	M. E	Asstt. Prof.	CAD/CAM	7	2	---
Mr. M. J. Watane	M. E	Asstt. Prof.	CAD/CAM	6	---	---
Mr. A. S. Bombatkar	M. E	Asstt. Prof.	Thermal Engg.	8	---	---
Mr. S. V.Bhunte	M. E	Asstt. Prof.	Thermal Engg.	6	---	---
Mr. M. P.Bijwe	M. E	Asstt. Prof.	CAD/CAM	8.5	---	---
Mr. .L.R.Mahore	M. E	Asstt. Prof.	CAD/CAM	5.5	---	---
Mr. A. V. Deshmukh	M. E	Asstt. Prof.	Thermal Engg.	2	---	---
Mr. G. V.Bhunte	M. E	Asstt. Prof.	CAD/CAM	2	---	---
Mr. A. M. Bobade	M. E	Asstt. Prof.	Thermal Engg.	1	---	---
Mr. M. A. Khodke	M. E	Asstt. Prof.	CAD/CAM	2	---	---
Mr. S. D. Gulhane	M. E	Asstt. Prof.	CAD/CAM	2	---	---
Mr. M. S. Akolkar	M. E	Asstt. Prof.	CAD/CAM	2	---	---
Mr. U. S. Men	M. E	Asstt. Prof.	CAD/CAM	2	---	---
Mr. R. B. Pise	M. E	Asstt. Prof.	CAD/CAM	1	---	---
Mr. S. J. Hagawane	M. E	Asstt. Prof.	CAD/CAM	2	---	---
Mr. S. M. Petle	M. E	Asstt. Prof.	Thermal Engg.	1	---	---
Ms. P. N. Mithe	M. E	Asstt. Prof.	M/c Design	1	---	---
Mr. R. S. Shrivas	M. E	Asstt. Prof.	CAD/CAM	2	---	---
Mr. P. N. Charhate	M. E	Asstt. Prof.	CAD/CAM	2	---	---
Mr. A. R. Dharmale	M. E	Asstt. Prof.	CAD/CAM	2	---	---

Mr. H. K. Saurkar	M. E	Asstt. Prof.	CAD/CAM	1	---	---
Mr. Mohsin A. Ali	M. E	Asstt. Prof.	CAD/CAM	3	---	---
Mr. L. S. Sahastrabuddhe	M. E	Asstt. Prof.	CAD/CAM	1	---	---
Mr. A. P. Pinjarkar	B. E	Asstt. Prof.	ME Pursuing	1	---	---
Mr. P. R. Dangore	B. E	Asstt. Prof.	ME Pursuing	1	---	---
Mr. S. J. Bhidkar	B. E	Asstt. Prof.	ME Pursuing	1	---	---

NOTE - *- Pursuing Ph. D

11. **No. of temporary faculty (Fix-pay/CHB**): ----- NIL -----

12. **List of senior visiting faculty**:----- NIL ------

13. **Percentage of lectures delivered and practical classes handled (programmewise) by temporary faculty** :

Course	% of theory class handled	% of Practical class handled
----- NIL -----	----- NIL -----	----- NIL -----

14. Student-Teacher Ratio (programme wise):

Year	Programme	Ratio (Student-Teacher Ratio)
2016-2017	B.E Mechanical	15:1
	PG CAD/CAM	12:1

15. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Staff	Sanctioned	Filled
Administrative Staff	01	01
Support Staff	09	09
Total	10	10

16. Qualifications of teaching faculty with DSc/D.Litt/Ph.D./M.Phil/PG

Qualifications	Ph.D.	M.E./ M.Tech	M.Sc. (NET/SET)	M.Sc.
Number of permanent faculty	01	26	NIL	NIL
Number of Temporary faculty	NIL	03	NIL	NIL

17. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: Ongoing project

Sr. No	Name of faculty	Project	Project Topic	Funding Agency	Grants Received
1	D. B. Pawar	Agro-Machine	Design and Development of Shredder Machine.	Laxmi Fabricators, Daryapur.	50,000=00
2	P. J. Bhadange	All-Terrain Vehicle	Design and Development of All Terrain Vehicle	CAD-Tech Institution Pvt. Ltd. Amravati	50,000=00

18. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR,etc.and total grants received:Completed project

Name of Faculty	Project	Project Topic	Funded Agency	Grants Received
------ NIL -----	------ NIL -----	------ NIL -----	------ NIL -----	------ NIL -----

19. **Research Centre/facility recognized by the University:** ---- NIL -----

20. **Publications:**

   a) Journal Publication per faculty/student

Name of Faculty	No. of Publication	
	National Journal	International journal
Dr. S. M. Kherde	02	09
Mr. S. T. Warghat	00	05
Mr. M. M.Patil	00	05
Mr. D. B. Pawar	03	07
Mr. M. J. Watane	00	02
Mr. A. S. Bombatkar	00	02
Mr. S. V.Bhunte	00	02
Mr. M. P.Bijwe	00	02
Mr. .L.R.Mahore	00	01
Mr. P. J. Bhadange	00	04
Mr. K. G. Hirde	00	03

b) Other Publication In Conference/Workshop/Seminar by Faculty:

Name of Faculty	No. of Paper Presented on Conference/ Workshop /Seminar		No. of STTP Attended	No. of Workshop Attended	No. of FDP Attended
	National	International			
Dr. S. M. Kherde	23	06	13	16	08
Mr. S. T. Warghat	02	02	04	02	01
Mr. M. M.Patil	07	01	03	01	01
Mr. D. B. Pawar	04	01	04	04	04
Mr. M. J. Watane	02	00	04	02	01
Mr. A. S. Bombatkar	04	03	03	02	01
Mr. S. V.Bhunte	02	00	03	02	01
Mr. M. P.Bijwe	02	00	03	02	01
Mr. P. J. Bhadange	02	03	03	00	01
Mr. .L.R.Mahore	00	00	02	00	01
Mr. K. G. Hirde	01	01	04	02	03

21. **Areas of consultancy and income generated** :
   1) Training provided on Electro Hydraulic Control System.
   2) Training provided on Electro Pneumatic Trainer.
   3) PLC for Hydraulic and Pneumatic Trainer.

S. No.	Academic Year	Income Generated (Rs. In Lakh)
1	2012-2013	0.20
2	2013-2014	0.16
3	2014-2015	0.22
4	2015-2016	0.30
5	2016-2017	0.15

22. Faculty as members in
a) National committees b) International Committees c) Editorial Boards….

Name of Faculty	Editorial Boards	University Committees (BOS/MC/Senate/LEC/etc.)	Any other Committee
Dr. S. M. Kherde	SGBAU, Amravati	Senate Member LEC Member BOS Member	ISTE SAE IEI AUTO INDIA

23. Students Projects:

2011-2012		
Title of Project	Name of Supervisor	Name of Students
Development of testing of mechanical cleaning device	Dr. S. M. Kherde	S. N. Wathodkar
		R. A. Kale
		M. A. Khodke
		Ku. S. S. Kukde
		Y. S. Idhole
Design and fabrication of manually operated low cost briquette making machine	Prof. S. S. Ingole	S. G. Gulhane
		S. R. Ramtake
		YogeshDeshmukh
		S. N. Gajbhiye
		V. V. Mane
Design and fabrication of agricultural sprayer	Prof. S. T. Warghat	Ku. N. R. Shegokar
		Ku. P. A. Jaiswal
		P. N. Charthal
		S. S. Khade
		S. S. Mendhe
Geothermal cooling system	Prof. P. J. Bhadange	A. M. Tayde
		A. A. Ajane
		A. A. Khapakar
		A. S. Mahalle
		Ku. S. R. Joshi
		T. K. Wasnik
Fuel injection testing machine	Prof. D. B. Pawar	A. V. Zagde
		A. H. Khan
		A. A. Wankhade
		A. B. Rindhe
		M. G. Zod
Automatic rain operated wiper system	Prof. M. M. Patil	S. S. Pude
		U. C. Rajput
		P. K. Mali
		R. C. Ghadge
		SwapnilPujari
Study and fabrication of solar chimney	Prof A. S. Bombatkar	N. R. Manekar
		T. M. Kapile
		Y. D. Ghode
		R. S. Jamodkar
		K. K. Balpande
		B. D. Bhonde
Fabrication of hybrid agriculture sprayer	Prof. Abdul Nazim	V. R. Thakre
		S. P. Thakre

		P. R. Pimpalte
		S. H. Pendhe
		Yogesh Kale
		S. V. Shrikundwar
Robot used in military and rescue operation	Prof. T. V. Deshmukh	S. U. Javeri
		D. P. Pandhare
		S. S. Navrange
		R. S. Shingre
		S. U. Padole
		S. V. Chinchole
Modeling and fabrication of multi-operational wood working machine	Prof S. V. Bhunte	R. B. Tale
		P. S. Verma
		P. A. Malpe
		N. D. Chawande
		M. D. Khaniwale
		S. A. Jane
Design and development of manually operated floor cleaning machine	Prof. M. J. Watane	Bhushan Mangulkar
		P. A. Fule
		P. M. Kakade
		V. K. Raipure
		S. G. Ramgirwar
Adaptive headlamps and wings mirror	Prof. D. G. Chavan	A. T. Chavan
		G. T. Patil
		I. M. Patil
		S. S. Patil
		R. P. Waghmode
		V. D. Patil
Designing of cam for pattern of winding	Prof. D. B. Pawar	S. M. Charthal
		P. D. Thorat
		A. A. Shirbhate
		R. S. Sayare
		Y. C. Wankhade

2012-13		
Title of Project	Supervisor	Name of Students
Design and Fabrication of Adaptive suspension system and four wheel drive vehicle	Dr. S. M. Kherde	Adhau Roshan Sureshrao
		Aghao Prashant Sukhdeo
		Andhale Ganesh Madhukar
		Aware AkshayDnyaneshwar
		Aware Harshwardhan Bhaiyyasaheb

		Babre PratikshaRangrao
Eco-friendly mechanically operated multipurpose spray pump	Prof.S.S.Ingole	Balki Dhananjay Bapurao
		Belgamwar Atul Nandkumar
		Bhagat Ujwala Pandurang
		Bharsakale Sachin Jagannath
		Bombale Kishorkumar Shamrao
		Chalurkar Pravin Shankar
Fabrication of Vermi compost separator	Prof.S.S.Ingole	Chaudhary Aniruddha Bhashkarrao
		Chavan Mahesh Ranganath
		DangorePankajRavindra
		DeshbhratarSurajRameshrao
		DeshmukhSudhanshuSukhdevrao
		DharmaleAkshayRameshrao
Design and Development of Automatic Pipe Cutting	Prof.S.T.Warghat	DudheSanjogSukhdeorao
		FokateVipulShankarrao
		GadlingAmolGiridhar
		GaikwadAmanPradip
		GajbhiyeNileshBhimrao
		GedamPrajwalVilasrao
Design and Development of Hydraulic Bending Machine	Prof.S.T.Warghat	Ghongade Amitabh Shalik
		GhorapadeYogesh Vilas
		GongeArtiSudhakar
		GulhaneAkshayDeepakrao
		GulhaneSatishDnyaneshwarrao
		HingmireAtulDattatray
Experimental Investigation of flow losses through different pipe fitting	Prof.P.J.Bhadange	IngoleAnupVitthalrao
		JanbandhuAtulUttamrao
		KadukarHemataiPralhadrao
		Kadukar Sunil Ganeshrao
		KakdePurushottamMoreshwarrao
		KalbandeVivekGajanan
Cotton seed swoing	Prof.M.M.Patil	KanhedKapilKishor

machine		KedarSagarDevidasrao
		KhairkarAnup Deepak
		KhairkarShantanuSudhakarrao
		KhajoneSachinShankarrao
		KhalelkarRupeshRamdasrao
Design and fabrication of automatis pneumatic Can crusher	Prof.M.M.Patil	KhandareAshwiniBhaskarrao
		KhandekarShaileshGaneshrao
		KhobragadeSachin
		KolheSwapnilLaxmikant
		Khedkar Amar Rajendra
		KothareCharandasShravan
Design and Development of Manipulator for Pick and Place Operation	Prof.D.B.Pawar	LandgeAbhijitKishor
		Lawhale AkshayPrakashrao
		Malik Rahul Rajendra
		Mohd Arshad Mohd Akhtar
		Mohd. Mohsin Mohd Saleem
		Motinagare Sumedh Devidas
Design and Development of Gripper for 3DOF manipulator	Prof.D.B.Pawar	Palaskar Ashish Dhannu
		Patel Saurabh Ravish
		Pathare Anup Dnyaneshwar
		Patil Vijay Shrikant
		PokaleChetanSureshrao
		Pophalkar Gopal Vishwambhar
Experimental Investigation on SI Engine th Magnetic Fuel Conditioner	Prof. A. S. Bombatkar	RautDipakJagannath
		Raut Deepak Madhukar
		RautJiteshRamlal
		Sahastrabuddhe Liladhar Suryakant
		SawaleKarunaMadhukarrao
		ShahareAmitRaju
Design and fabrication of Hovercraft	Prof. S. V. Bhunte	Sheikh Talib Sheikh Akil
		Shingane Anil Santosh
		Singanjude Anil Vilasrao
		Solanke SangamVinayakrao

Title of Project	Supervisor	Name of Students
		Sonparate VaibhavSudhir
		Surve Pravin Atmaram
Design and Development of Motorized Screw Jack	Prof.M.J.Watane	TakeySachinShalikrao
		TalokarKalpeshRajendra
		TayadeVanshrajLalchand
		TawadePranay
		TikkasTusharManoharrao
		Wankhade Ajay Ashok
Three Directional Pneumatic Trailor	Prof.M.P.Bijwe	WarkariShrikant Suresh
		YadaoAvinashRamlal
		Yadao Pratik Balasaheb
		Yawale Nikhil Gulabrao
		YawaleParagNandkishor
		YeulPrashantVinayakrao
		Zod Rahul Shriramji

2014-15

Title of Project	Supervisor	Name of Students
Analysis of Industrial Throughput by Quality Control Perspective: A case Study at Jadhao Icon, Amravati	Prof. Dr. S. M. Kherde	AkshayA.Wankhade
		Akash K. zanjad
		Akash M. Marotkar
		Akshay D. Holey
		Sumit R. Choudhary
		Vicky S. Dahikar
Study of Various Dust Suppression system In Power Plant	Prof. S. T. Warghat	Ku.Bheshja N Meshram
		Ku. Pranita V Charhate
		Ku. Yojna G Wankhade
		Ku. SharvariPuri
		Ku. PranaliUtkhede
		AnkushKurhekar
		VaibhavRawale
Design and Fabrication of Fixture for Drilling Holes on	Prof. D. B. Pawar	Omprakash N Wadekar
		Ketan Ashok Zade
		Satyajit A. Deshmukh
		Valay V. Nagarmote

		Pravin H Phase
Circular Periphery		Ravi S. Kakad
Analysis of Electrostatic Precipitator	Prof. M. M. Patil	Rohit M. Mishra
		Pritam P Yawale
		Swapnil B. bhatkar
		Rahul Kumar
		Rahul K. Pandey
		Anandkumar C. Patel
LPG as Refrigerant	Prof. A. S. Bombatkar	Dipak B Khade
		Simantak B. Wankhede
		Manoj B KauthKar
		Vishal Y.Nemade
		VinayNiswade
		Pratik Meshram
Design and fabrication of four rotor quadcopter	Prof. S. T. Warghat	Bhushan b Naik
		Praful d Dewalkar
		Rahul S. Gore
		Avinash B Gawai
		Mahesh P Jaware
		AnkushKurhekar
		Umesh G. Patil
A Case Study on Analysis of Fire Fighting System At Ratan India Power Plant	Prof. M. M. Patil	Vijay Joge
		ShyamWankhede
		SachinSonar
		AmolAdvikar
		AbhijitPetle
		Manish Bhuyar
Design and fabrication of Ground Nut Pod Separator	Prof. P. J. Bhadange	AmolS.Gawande
		Hukumchand S Charde
		Sushil .P.Gawande
		Amol D. Ghatole
		Sumit J. Warghat
		Abhijit K. Dabre
Nonconventional Energy Powered Vehicle	Prof. S. V. Bhunte	Aman Singh
		Nitesh a Gangasagar
		Umesh Sinkar
		Subodh kumar
		Sangharsh S. Ambhore
		Prashant s Kirte
Design and	Prof. M. J. Watane	Prajwal S Raut

Development of Remote operated Forklift		Abhishek R. Kadam
		Dhananjay P. Pokale
		Sagar P. Agarkar
		Kaustubh S Thakare
		Piyush S Gulhane
Internal Pipe Inspection Robot	Prof.M. P. Bijwe	AkshayD.Wankhade
		Pravin D Kolhe
		Mangesh V Kamble
		Ankit R Kanojia
		Sanjay Chaurawar
		Swapnil V. Yerne
Design and Development of Industrial Robot for Light Weighted Material	Prof. L.R. Mahore	Minar k Khobragade
		SantoshP.Pawar
		Pawan N Deotale
		Rajkumar D. Gawai
		Jitesh K Rathod
		TrikalJaiswal
Development of hybrid Vehicle	Prof. D. B. Pawar	HarshalDurge
		SwapnilGurjar
		Shashikant Mule
		Vikrant Ambadkar
		SwapnilItal
		Manish Nichat
To study and Fabrication of Solar Steel	Prof. A. S. Bombatkar	PrayagKapghate
		Dilipkumar Ram
		GajananManmode
		Mohan Isal
		Pratik Rode
		Nikhil Kharode

a) Percentage of students who have done in-house projects including inter departmental and organization outside.

Year	Name of the Programme	% of Students In-house	% of Students Outside
2012-2013	BE. – MECH	100%	--- NIL --
2013-2014	BE. – MECH	100 %	--- NIL --
	PG – CAD/CAM	70 %	30 %
2014-2015	BE. – MECH	100 %	--- NIL --
	PG – CAD/CAM	70 %	30%
2015-2016	BE. – MECH	100 %	--- NIL --
	PG – CAD/CAM	70%	30%
2016-2017	BE. – MECH	100 %	--- NIL --
	PG – CAD/CAM	70 %	30 %

b.) Percentage of students placed for projects in organization outside the institute ie in Research laboratories/Industry/other agencies:

Agency/ field	% of students
Research Laboratories	--- NIL ---
Industry	52 %
Other agency	--- NIL ---

23. Awards/ Recognitions received by faculty and students:

Ph.D	P.hD. Supervisor recognition	Research Awards	Best paper/poster presentation award	Travel grand from UGC/AICTE etc	FIP/R/O	Award from Central/ State	Award from Uni. /Society/ College etc.
01	01	-----	02	-----	-----	-----	03

24. List of eminent academicians and scientists/ visitors to the department:

Sr. No.	Eminent academicians and scientists/ visitors with work place	Field
1	Mr. Deep Verma, Principal Scientist, MGIRI, Wardha	Manufacturing Science, Mechanical System Design.
2	Mr. Ameya Bhatkal, Head – CADCAM Guru, PUNE	Opportunities in Design field and related software.
3	Mr. S. Tange, Sr. Manager, KrishEngg. Pvt. LTd, Pune.	Industrial Automation

| 4 | Dr. T. R. Deshmukh, PRMITR, Badnera | Computer Assisted Manufacturing Systems (CAMS) |
| 5 | Mr. Prasanna Joshi Expert from CADCAM Guru, PUNE. | Automobile Seating System Designing. |

25. STTP/ Seminar / conferences/ Workshops organized and the source of funding.

Events	Date	Level	Source of funding	Grant Received
3 DAY'S WORKSHOP ON MECHATRONICS	21/11/2012 to 23/11/2012	National	--------	Self-Finance
STTP on 'Industrial Automation' ISTE Approved	11/11/2013 to 15/11/2013	National	--------	Self-Finance
STTP '"Computer Assisted Manufacturing System (CAMS)" ISTE Approved.	24/11/2014 to 29/11/2014	National	--------	Self-Finance

26. Students profile programme /course wise:

Academic Year	Name of course programme	Application received	Selected	Enrolled		Pass %
				Male	Female	
UG	2011-15	**	**	85	5	47.88%
	2012-16			65	6	90%
	2013-17			82	04	Appearing
PG	2012-14	**	**	11	1	25%
	2013-15			12	0	41.66
	2014-16			6	0	33.33
	2015-17			3	0	Appearing

NOTE - ** Through DTE Centralize Admission Process (CAP System) .

27. Diversity of students: -   ---- NIL ----

28. How many students have Appeared National and State competitive examinations such as GATE, Civil Services, Defense services, etc.?

Year	GATE	Civil services	Defense services	PAT	Any other
2011-2012	01				
2012-2013	26	03	03	03	
2013-2014	25				
2014-2015	32				
2015-2016	02				
2016-2017	39				

29. Students progression:

Students progression	Against % enrolled
UG to PG	4.29 %
PG to Ph D	20 %
PG to post-doctoral	---- NIL ----

Student Placed In Campus and Off Campus

Academic Year	No. of Student Placed	
	In Campus	Off Campus
2016-2017	01	01
2015-2016	04	14
2014-2015	18	21
2013-2014	18	46
2012-2013	18	31
2011-2012	14	16

30. Details of Infrastructural facilities:

Sr. No.	Infrastructural facilities	Status	Nos.
1	Library (departmental)	Books: Journal: Reference Book: Any other reading material:	4444 14 102 NDL, NPTEL
2	Internet facilities for staff and students	No. of computer: No. of computer with internet:	45 45
3	Classroom with ICT facilities	No. of class room with capacity: No. of LCD: No. of OHP: No. of scanner:	05 Each - 80 03 01 01

		No. of printer:	03
		No. of software with cost:	11,55,000=00
4	Laboratories with capacity	No. of Lab:	08
		No. of research Lab:	01
5	Other	Staff room:	02
		Store:	01
		HOD & Coordinator cabin:	01

Sr. No.	Area of Laboratories	Area in Sq. meter
1	Fluid Power	161
2	Heat Transfer	77.58
3	Internal Combustion Engine	137.8
4	Refrigeration & Air-Conditioning	59.8
5	Theory of Machines	90
6	Production Technology	54.8
7	Measurement System	61
8	Engineering Metallurgy	
9	CAD-CAM Lab	86.85
10	Mechatronics Lab	59.46

31.No. of students receiving financial assistance from college, university, government or other agencies: (Free-ships, scholarships, Prizes, Financial assistance for UG/PG needy students) :-

- Student Admitted in Department are eligible for free-ship, Category Scholarship, Minority

   Scholarship such all database is available in Main SSR .

32. Details on students enrichment programmers (special Lectures/ workshops/ seminar/ educational tour/ industrial visit/ etc.) with external experts:

Special lectures for student's enrichment programme:

Sr. No.	Eminent academicians and scientists/ visitors with work place	Field
1	Mr. Deep Verma, Principal Scientist, MGIRI, Wardha	Manufacturing Science, Mechanical System Design.
2	Mr. Ameya Bhatkal, Head – CADCAM Guru, PUNE	Opportunities in Design field and related software.

3	Mr. S. Tange, Sr. Manager, KrishEngg. Pvt. LTd, Pune.	Industrial Automation
4	Dr. T. R. Deshmukh, PRMIT&R, Badnera	Computer Assisted Manufacturing Systems (CAMS)
5	Mr. PrasannaJoshi Expert from CADCAM Guru,PUNE.	Automobile Seating System Designing.

Workshop organized for students enrichment programme:

Sr. No	Title of the Programme	Details of Resource Person
1	1 day's Workshop on ROBOTICS	Mr. Prasanna Joshi Expert from CADCAM Guru, PUNE
2	1 day's Workshop on Opportunities in Design field and related software	Mr. Ameya Bhatkal, Head – CADCAM Guru, PUNE
3	1 day's Workshop on Automobile Seating System Designing	Mr. Prasanna Joshi Expert from CAD-CAM-GURU, Pune
4	3 Days Workshop on "AUTO- INVACE"	Expertise Prigma Educational Technical Services, New Delhi
5	1 day's Workshop on 3-D Printing / Additive Manufacturing	1 day's Workshop on 3-D Printing / Additive Manufacturing

Educational tour/industrial visit for students enrichment programme:

Sr.No	Name of Organization where Industrial Visit Arranged	Date of Visit	No. of Students Attended Visit
1.	Indo-German Tool Room, Aurangabad	4/03/2016	37
2.	Marathwada Tool- Tech(Industrial Exhibition),MIDC Aurangabad.	3/03/2016	37
3.	MAHAGENCO's Khaperkheda Thermal Power Station, Dist-Nagpur.	23/09/2014	62
4.	JSW Steel Coated Products Limited, Kalmeshwar Works,A-10/1, MIDC Kalmeshwar Nagpur	27/09/2014	42
5.	Jadhao Steel Alloys,A-81,MIDC Amravati	16/01/2014	50
6.	Jadhao Gears Pvt.Ltd.,D-9/2, MIDC, Amravati	16/01/2014	30
7.	Mahindra & Mahindra Ltd., Hingna MIDC, Nagpur	20/10/2012	50

8.	Jadhao Steel Alloys,A-81,MIDC Amravati	29/09/2012	55
9.	Jadhao Gears,D-9/2, MIDC, Amravati	29/09/2012	55
10.	Jadhao Gears,W-27, MIDC, Amravati	25/02/2012	46
11.	Jadhao Steel Alloys,A-81,MIDC Amravati	25/02/2012	46
12.	MAHAGENCO's Chandrapur Super Thermal Power Station,	11/03/2011	62

33. Teaching methods adopted to improve student learning:

Innovative teaching learning process
Mechanical Engineering department delivers curriculum using an innovative "blended approach" that includes courses based on industry - institutional requirements, classroom teaching coupled with web based contents, and the discipline that deals with the theory and practice of education, continuous assessment, organized feedback from students and further improvisation of teaching techniques. The teaching methods are innovative like maximum practical exposure and are dynamic enough to motivate the students.

Course plan, Course materials and Lecturer notes:
➢ Based on the curriculum syllabi, Course Plan is prepared with student's expectations.
➢ We are preparing the course materials well in advance by referring reputed text books based on curriculum syllabi.
➢ Lecturer Notes are prepared for course plan with referring the prescribed text books in curriculum syllabi, Industrial data book, reference books and E-sources etc.,
➢ Black board presentation, Power Point Presentation, and Study on Models

Group Discussions, Tutorial classes, Individual student seminars
➢ The Group Discussions and Tutorial classes are conducted by the concerned the courses. All these activities will help to improve their skills.
➢ Seminars hours are added in class time table itself for the students to enrich their knowledge, communication skill, presentation skill on the subjects.

Library references, journals, e-learning resources like NPTEL
➢ Internet facility is available in the department to facilitate the student to enrich their knowledge on current trends in industrial innovations by using E-learning sources like

34. Participation in Institutional Social Responsibility (ISR) and Extension Activities:

Institutional Social Responsibility (ISR) :

No. of Students Participated					
2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017
25	18	33	29	22	27

Extension Activities:

No. of Students Participated					
2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017
10	12	18	17	15	10

5. SWOC analysis of the department and future plans:

Strength:

- Well-equipped infrastructure and Lab facilities.
- A team of qualified experienced and committed faculties
- Constant encouragement being given to the students for their participation in co-Curricular and extracurricular activities.
- A good academic record with University ranks.
- High retention rate of faculty members.
- Numerous facilities, scholarships and financial aid available to meritorious, deserving Students.
- 30 % of faculty from industrial experience.

Weakness:

- Less number of industry tie-ups
- No funded projects
- Industry institute interaction needs to be strengthened
- To publish more research papers in high impact factor journals
- Less No. of the faculties is pursuing PhD Programme.
- Least placement records.

Opportunities:

- To provide testing and consultancy services to the industries.
- Involvement in rural development activities through various activities.
- Organizational Skill development.
- To tie up with local industries for placement and projects.
- Enhance research activities through sponsored R&D projects.

Challenges'

- Limitation and constraint in government financial support.
- Improving communication skill for rural background students.
- Focus of students' project towards the societal needs.
- To upgrade rural students to meet the global standards.

- Patenting the innovative research work carried out in the department.

Future plans (Road Map):

- To establish Research Centre.
- Establishing the Centre of Excellence in the field of CAD/CAE/CFD
- Strengthening the Industrial Consultancy work.
- Improving the skills of students in research and publication activities.
- To encourage the students to become entrepreneurs.
- To establish more number of MOU with Industries.
- To get NBA status for the department.
- To upgrade the faculty skills to meet rapid changes in technology.
- To organize International conference and publish department Journal.

Collaboration/Linkages: 1) Mahatma Gandhi Institute for Rural Industrialization, Wardha

2) ASPA Bandson Maruti Service.

3) Laxmi Fabricators, Daryapur.

4) ADCC Academy Pvt. Ltd, Amravati.

5) CAD-Tech Institute, Amravati.

Resource person (Chair the session/Invited Talk/Guest Lecture):

Resource person	Chair the session	Invited Talk	Guest Lecture
Deep Vijay Varma	Dr. S. M. Kherde	Motivation of student	D. B. Pawar
Amey Bhatkal	Dr. S. M. Kherde	3-D printing/ Additive Manufacturing	S. T. Warghat
MahendraMundre	S. T. Warghat	Sense of Corporate	S. S. Ingole.

Convener of college committee with name of committee:

Name of Convener	Name of committee
Mr. D. B. Pawar	NIRF, Test, Time-Table, ME,
Mr. S. T. Warghat	University Theory Exam
Mr. M. M. Patil	NIRF
Mr. P. J. Bhadange	Technical Event Like BAHA SAE
Mr. L. R. Mahore	University Practical Exam
Mr. A. S. Bombatkar	University Theory Exam
Mr. S. V. Bhunte	AISHE

Faculty Membership In Professional Body

Name of Faculty	Membership In Professional Body
Dr. S. M. Kherde	ISTE, SAE, IEI, AUTO INDIA
Mr. S. T. Warghat	ISTE, IEI
Mr. M. M.Patil	ISTE, IEI
Mr. D. B. Pawar	ISTE, IEI
Mr. P. J. Bhadange	ISTE, IEI, SAE
Mr. M. J. Watane	ISTE, IEI
Mr. A. S. Bombatkar	ISTE, IEI
Mr. S. V. Bhunte	ISTE
Mr. M. P. Bijwe	ISTE
Mr. L. R. Mahore	IEI

Awards/Recognitions received by students

Name of Student	Name of the conference/Workshop/Technical Event	Country/State Visited
Nikhil ShankarraoYeul PiyushSurendraGulhane Vishal YashwantNemade SantoshPrakashPawar PawanNandkishorDeotale	AutoInovace (Prigma Edu Tech Services)	KGIET Darapur (MH)
HarshadRajabhauRaut Rajesh NandkishorBhuskade VaibhavPrakashraoMatkar DnyaneshwarVasantaGuhe GauravDipakraoJambhe	AutoInovace (PrigmaEdu Tech Services)	KGIET Darapur(MH)
Nikhil JayaprakashraoDeshmukh	Harshwardhan	Amravati District(MH)
AnandGawande	Innovision 2014	KGIET Darapur(MH)
DhananjayPokale/KautubhThakare	Innovision 2014	KGIET Darapur(MH)
SumitJanardhanWarghat	Sports Package Course	HVPM Amravati(MH)
Vishal Nemade	PRAYUKTI 2013	KGIET Darapur(MH)
DhananjayPokale	catia professional	DCS Amravati(MH)
SantoshPrakashPawar	VID 2012	Sipna COET Amravati(MH)
PiyushSurendraGulhane	BAJA SAE INDIA 2012	BANGLORE,KARNATAKA
DhananjayPokale	PRAJWALAN 2012	GCOE Amravati(MH)
DhananjayPokale	VID 2012	Sipna COET Amravati(MH)
Abhishek R Kadam	TECHNOCRAT 1.0(SAE INDIA)	KGIET Darapur(MH)

GauravDipakraoJambhe	Harshwardhan	Amravati District(MH)
Minar Khobragade	PRAJWALAN 2011	GCOE Amravati(MH)
Piyush Surendra Gulhane	Autocad	Boston Amravati(MH)
PiyushSurendraGulhane	catia professional	DCS Amravati(MH)
PiyushSurendraGulhane	PRAJWALAN 2013	GCOE Amravati(MH)
PiyushSurendraGulhane	PRAYUKTI 2013(Roborace)	KGIET Darapur(MH)
PiyushSurendraGulhane	PRAYUKTI 2013(Contraption)	KGIET Darapur(MH)
PiyushSurendraGulhane	BAJA SAE INDIA 2013	Pithampur, MP
Simantak B Wankhade	TECHNOCRAT 2.0(SAE INDIA)	KGIET Darapur(MH)
Simantak B Wankhade	PRAYUKTI 2013(i- Tech))	KGIET Darapur(MH)
DheerajTagade	PRAJWALAN 2013	GCOE Amravati(MH)
Nikil S Yeul	TECHNOCRAT 2.0(SAE INDIA)	KGIET Darapur(MH)
Akshay K. Dhore	TECHNOCRAT 2.0(SAE INDIA)	KGIET Darapur(MH)
SantoshPrakashPawar	PRAYUKTI 2013(Angry Bird)	KGIET Darapur(MH)
Rajkumar D Gawai	TECHNOCRAT 2.0(SAE INDIA)	KGIET Darapur(MH)
SantoshPrakashPawar	TECHNOCRAT 2.0(SAE INDIA)	KGIET Darapur(MH)
Abhishek R Kadam	PRAJWALAN 2013	GCOE Amravati(MH)
Abhishek R Kadam	PRAYUKTI 2013(i- Tech))	KGIET Darapur(MH)
Abhishek R Kadam	Techelons 2013	PR Pote Amravati(MH)
Abhishek R Kadam	catia professional	DCS Amravati(MH)
Pawan NandkishorDeotale	PRAYUKTI 2013(Roborace)	KGIET Darapur(MH)
Pawan NandkishorDeotale	PRAYUKTI 2013(Angry Bird)	KGIET Darapur(MH)
Pawan NandkishorDeotale	TECHNOCRAT 2.0(SAE INDIA)	KGIET Darapur(MH)
Anand Vinayakrao Gawande	PRAJWALAN 2013	GCOE Amravati(MH)
HarshadRajabhauRaut	PRAJWALAN 2013	GCOE Amravati(MH)
HarshadRajabhauRaut	TECHNOCRAT 2.0(SAE INDIA)	KGIET Darapur(MH)
DnyaneshwarVasantaGuhe	PRAYUKTI 2013	KGIET Darapur(MH)
DnyaneshwarVasantaGuhe	TECHNOCRAT 2.0(SAE INDIA)	KGIET Darapur(MH)
Harshad Rajabhau Raut	PRAYUKTI 2013(Roborace)	KGIET Darapur(MH)
Dhananjay P Pokale	PRAJWALAN 2013	GCOE Amravati(MH)

Dhananjay P Pokale	TECHELONS 2013	PR Pote Amravati(MH)
Dhananjay P Pokale	PRAYUKTI 2013(Contraption)	KGIET Darapur(MH)
Dhananjay P Pokale	PRAYUKTI 2013(Roborace)	KGIET Darapur(MH)
Dhananjay P Pokale	PRAYUKTI 2013(i- Tech))	KGIET Darapur(MH)
Nikhil Deshmukh	PRAJWALAN 2013	GCOE Amravati(MH)
Nikhil Deshmukh	PRAYUKTI 2013(i- Tech))	KGIET Darapur (MH)
MinarKhobragade	TECHNOCRAT 2.0 (SAE INDIA)	KGIET Darapur (MH)
MinarKhobragade	ROBOTICS SEMINAR	RNXG
MinarKhobragade	PRAJWALAN 2012	GCOE Amravati(MH)
Vaibhav Prakashrao Matkar	PRAYUKTI 2013(Roborace)	KGIET Darapur(MH)
VaibhavPrakashrao Matkar	TECHNOCRAT 2.0(SAE INDIA)	KGIET Darapur(MH)
VaibhavPrakashrao Matkar	PRAJWALAN 2013	GCOE Amravati(MH)
VMW Team Saurabh Javery for BAJA 2012-13	BAJA-OFF ROAD Car Racing Competition	Indore (MP)
VMW Team Pratiksha Babre for BAJA 2013-14	Delta off ROAD Car Racing Competition	Jamshedpur (Jharkhand)
VMW Team Shrikant Khating Team 2014-15	Supra Racing Competition	Chennai(Tamilnadu)
VMW Team ShrikantKhating Team 2014-15	Delta off ROAD Car Racing Competition	NIT Jharkhand
VMW Team Akshay Pawar 2015-16	BAJA-OFF ROAD Car Racing Competition	Indore (MP)
VMW Team Anurag Gaigole 2016-17	ATV OFF ROAD CAR RACING COMPETITION	Ahemadnagar (MH)
Sachin S. Sonne (First Prize)	International Conference on Green Technology & Sustainable Development	Anuradha Engg College Chikhali, MH
Gaurav Dipakrao Jambhe	PRAYUKTI 2013 (Roborace)	KGIET Darapur(MH)
Gaurav Dipakrao Jambhe	PRAJWALAN 2013 (Junk Art)	GCOE Amravati(MH)
GauravDipakraoJambhe	TECHNOCRAT 2.0(SAE INDIA)	KGIET Darapur(MH)
Vishal YashwantNemade	PRAJWALAN 2014(PPT)	GCOE Amravati(MH)
Vishal YashwantNemade	SUPRA SAE INDIA	Madras Motor Race Track Chennai Tamilnadu
Akshay K. Dhore	TECHNOCRAT 3.0 (SAE INDIA)	KGIET Darapur(MH)

DheerajTagade	PRAJWALAN 2014(RoboRace)	GCOE Amravati(MH)
Simantak B Wankhade	PRAJWALAN 2014(RoboRace)	GCOE Amravati(MH)
PiyushSurendraGulhane	SUPRA SAE INDIA	Madras Motor Race Track Chennai Tamilnadu
PiyushSurendraGulhane	Delta Shootout 2014	NIT Jamshedpur Jharkhand
PiyushSurendraGulhane	TECHELONS 2014	PR Pote Amravati(MH)
PiyushSurendraGulhane	PRAJWALAN 2014(CATIA)	GCOE Amravati(MH)
Nikhil ShankarraoYeul	PRAJWALAN 2014(CADSTRIFE)	GCOE Amravati(MH)
SantoshPrakashPawar	PRAJWALAN 2014(PPT)	GCOE Amravati(MH)
Abhishek R Kadam	TECH KRUNCH 2K14	GH Raisoni COEM Amravati(MH)
SantoshPrakashPawar	Delta Shootout 2014	NIT Jamshedpur Jharkhand
Abhishek R Kadam	PRAJWALAN 2014(CADSTRIFE)	GCOE Amravati(MH)
PawanNandkishorDeotale	PRAJWALAN 2014(PPT)	GCOE Amravati(MH)
PawanNandkishorDeotale	PRAJWALAN 2014(Contraption)	GCOE Amravati(MH)
HarshadRajabhauRaut	PRAJWALAN 2014(PPT)	GCOE Amravati(MH)
HarshadRajabhauRaut	TECHELONS 2014	PR Pote Amravati(MH)
Gaurav Dipakrao Jambhe	TECHELONS 2014	PR Pote Amravati(MH)
GauravDipakraoJambhe	PRAJWALAN 2014(PPT)	GCOE Amravati(MH)
SubodhVairale	PRAJWALAN 2014(PPT)	GCOE Amravati(MH)
DhananjayPokale	PRAJWALAN 2014 (CADSTRIFE)	GCOE Amravati(MH)
DhananjayPokale	TECH KRUNCH 2K14	GH Raisoni COEM Amravati(MH)
DhananjayPokale	IBSS E-Dazzled 2014	IBSS COLLEGE OF ENGG Amravati(MH)
Dipak Khade	PRAJWALAN 2014(Death Race)	GCOE Amravati(MH)
Harshal Durge/ Swapnil Gujar	Virtual Round of Hybrid Go-Kart Challenge	Imperial Society of Innovative Engineers
Harshal Durge / Abhay Thakur	Electric Solar Vehicle Kart	Imperial Society of Innovative Engineers

Electronics & Telecommunication Engineering

1. Name of the department: Electronics and Telecommunication Engineering

2. Year of Establishment: 2008

3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.):

Sr. No	Name of the Programme	Year of Establishment
1	UG	2008

4. Names of Interdisciplinary courses and the departments/units involved:

Sr. No.	Name of the Interdisciplinary Courses	Departments / Units Involved
1	Engineering Mathematics - III	Applied Science & Humanities
2	Analog & Digital Integrated Circuits	Computer Science & Engineering
3	E Commerce	Information Technology
4	Introduction to Computer Network	Information Technology
5	Environmental Studies	Applied Science

5. Annual/ semester/choice based credit system (programme wise):

Sr. No	Name of the Programme	Pattern/System (Annual/ semester /choice based credit system)
1	UG	Semester (Credit Grade System)

6. Participation of the department in the courses offered by other departments:

Sr. No.	Name of the Department	Class	Courses offered
1	Computer Science & Engineering	SE	Analog & Digital Integrated Circuits
2	Mechanical Engineering	TE	Consumer Electronics

7. Courses in collaboration with other universities, industries, foreign institutions, etc.: Nil

8. Details of courses/programmes discontinued (if any) with reasons: Nil

9. Number of teaching post:

Post	Sanctioned	Filled
Professors	01	-
Associate Professors	02	-
Asst. Professors	17	20
Visiting/Guest	-	-

10. Faculty profile with name, qualification, designation, specialization, (D.Sc. /D.Litt. /Ph.D. / M. Phil. etc.):

S. N.	Name	Qualification	Designation	Specialization	No. of Years of Experience
1	Mr. N. V. Raut	M.E.	Head & Asst. Professor	Digital Communication	07
2	Mr. K. A. Wankhade	M.E.	Asst. Professor	EXTC	06

3	Mr. A. W. Kale	M.E. Pursuing	Asst. Professor	Digital Electronics	04
4	Mr. M. V. Benodkar	M.E.	Asst. Professor	EXTC	03
5	Ms. S. R. Gade	M.E.	Asst. Professor	EXTC	03
6	Mr. D. S. Bhojane	M.E.	Asst. Professor	EXTC	03
7	Ms. P. A. Ganthade	M.E. Pursuing	Asst. Professor	EXTC	02
8	Ms. Sonali A. Varhade	M.E.	Asst. Professor	Digital Electronics	01
9	Mr. Girish S. Bhavekar	M.E. Pursuing	Asst. Professor	EXTC	01
10	Ms. Snehal A. Ghormade	M. E.	Asst. Professor	EXTC	02
11	Mr. Abhijeet Kale	M.E. Pursuing	Asst. Professor	EXTC	-
12	Mr. Pratik A. Bhore	M. Tech.	Asst. Professor	EXTC	-
13	Mr. Vaibhav S. Khode	M.E. Pursuing	Asst. Professor	EXTC	-
14	Ms. Bhumita U.	M.E.	Asst. Professor	EXTC	-
15	Mr. Manish A. Chhangani	M.E.	Asst. Professor	EXTC	-
16	Mr. Atul M. Anasane	B.E.	Asst. Professor	EXTC	-
17	Mr. Manoj G. Khorgade	B.E.	Asst. Professor	EXTC	-
18	Mr. Aniket Deshmukh	B.E.	Asst. Professor	EXTC	-
19	Mr. Prasad Nage	B.E.	Asst. Professor	EXTC	-
20	Ms. Sneha M. Kantode	M.E. Pursuing	Asst. Professor	EXTC	-

11. List of senior visiting faculty: Nil

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: Nil

13. Student -Teacher Ratio (programme wise):

Sr. No.	Programm	Student -Teacher
1	UG	15:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Staff	Sanctioned	Filled
Academic Support Staff	02	02

15. Qualifications of teaching faculty with DSc/ D.Litt. / Ph.D. / MPhil / PG.:

.

Ph.D.	Ph.D.	PG	UG
-	-	16	04

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: Nil

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received: Nil

18. Research Centre /facility recognized by the University: Nil

19. Publications:

The faculties of the department have consistent record of publications in National / International Journals / Conferences. The summary is mentioned here.

a) **Publication per Faculty:**

Parameters	Numbe
Number of papers published in peer reviewed journals (National / International) by faculty and students	26
Number of publications listed in International Database (e.g.: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host,	-
Books with ISBN / ISSN numbers with details of publishers	-
Citation Index	-
SNIP	-
SJR	-
Impact factor	-
H-index	-

20. Areas of consultancy and income generated: Nil

21. Faculty as members in

a) **National Committees b) International Committees c) Editorial Board:**

a) **National Committees:** Nil

b) **International Committees:** Nil

c) **Editorial Boards:** Nil

d) **Any other committee:**

Name of the faculty	Name of the Committee/Role	Nature of Work/Description
Mr. N. V. Raut	National Conference on Emerging Research Trends in Engineering & Technology (NCERT 2015)	Organizing Secretary
	Technical Festival **Prayukti 2015** organized by KGIET, Darapur	Chief Coordinator
Mr. K. A. Wankhade	Technical Festival **Prayukti 2017** organized by KGIET, Darapur	Chief Coordinator

22. Student projects:

    a) Percentage of students who have done in-house projects including inter departmental/programme

    b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies

Programme	Academic Year	Percentage of In-house	Percentage of sponsored
UG	2016-17	NA	-
	2015-16	100	-
	2014-15	100	-
	2013-14	100	-
	2012-13	100	-
	2011-12	100	-

23. Awards / Recognitions received by faculty and students: Nil

24. List of eminent academicians and scientists / visitors to the department:

Sr. No.	Name of Eminent Scientists / Professionals	Association	Purpose of Visit
1	Dr. A. P. Thakare	Head of Department, Electronics & Telecommunication Engineering, Sipna's COET, Amravati	Session Chair at National Conference (NCERT - 2015)
2	Prof. G. D. Dalvi	Principal, P. R. Pote Polytechnic, Amravati	Judge of Paper Presentation Competition at Prayukti 2015

3	Prof. N. N. Mandavgade	Head of Department, Electronics & Telecommunication, G. H. Raisoni Collgege of Engineering, Amravati Engineering,	Judge of Project Competition at Prayukti 2015
4	Dr. Mrs. R. D. Raut	Professor, Department of Applied Electronics, SGBAU, Amravati	External Examiner of University Practical Examination Summer-2012 for Project

25. Seminars/ Conferences/Workshops organized & the source of funding:

Year	Sr. No.	Name of Seminar / Conference / Workshop FDP / SDP / STTP etc.	National / International / College Level	Sponsoring / Funding Agency if any
2015 - 16	1	National Conference on Emerging Research Trends in Engineering & Technology (NCERT 2015)	National	
	2	Workshop on Simulation Proteus tool for Third and Final Year	College	Self Sponsored
	3	Special lecture on basic hands MATLAB Software by Prof. N.V. Raut	College	Self Sponsored
2013 - 14	1	Two days Robotic seminar for 2nd , 3rd and Final year student	National	Self Sponsored

26. Student profile programme/course wise:

Name of the Course / Programme		Total No. of Students enrolled in First Year (Regular)	Total No. of Students enrolled in Second Year (Lateral entry)
Course	Year		
UG	2016-17	6	22
	2015-16	15	15
	2014-15	16	8
	2013-14	27	4
	2012-13	24	2
	2011-12	30	39

27. How many students have appeared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?:

Competitive Examinations /Academic Year	Number of Students				
	2012-13	2013-14	2014-15	2015-16	2016-17
GATE	23	33	25	3	5

28. Student progression:

Student Progression	Against % enrolled					
	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17
UG to PG	6.66	4.87	5.55	5.76	-	NA
PG to M.Phil.	NA					
PG to Ph.D.	NA					
Ph.D. to Post-	NA					
Employed • Campus selection • Other than campus	24	50	84	57	60	**
Entrepreneurship/Self	--	--	1.8	--	--	--

29. Details of Infrastructural facilities:

a) Library:

The College Central Library consists of Books, Journals, CDs etc. related to Electronics & Telecommunication Engineering Department as given in the following table.

Sr. No.	Particulars	Number
1	Titles	560
2	Volumes	2992
3	National Journals	13
4	International Journals	02
5	CDs	72

b) Internet facilities for Staff & Students:

- The complete department building is Wi-Fi enabled.
- Each faculty has cabin equipped with internet connection, whiteboard, table, chairs etc.
- The overall ambiance is highly professional and computers/Laptops are provided to the senior faculty.

c) Class rooms with ICT facility:

- Classroom is Wi-Fi enabled with enough light intensity, airy and have studious ambiance.

d) Laboratories:

Department has well equipped laboratories to conduct UG programme.

S.N.	Name of Lab	List of Major Equipments
1	Microprocessor and Microcontroller Lab	Microprocessor Trainer Kits
		Microcontroller Trainer Kits
		Microwave Lab Bench
2	Digital Integrated Circuit Lab	Digital Trainer Kits
3	Electronics Devices and Circuit Lab	DSO
		CRO
		Analog Digital Trainer
		Analog Lab Bench
4	Communication Engineering Lab	EPABX
		CRO
		Optical Communication Trainer
		Function Generator

5	Power Electronics Lab	Power Electronics Trainer
		Power Semiconductor Application
		Power Electronics XPO-PE Invert Pannel
		Optical Transducer trainer lit
		Pressure transducer Trainer
6	Digital Signal Processing Lab	PC
		AC

30. **Number of students receiving financial assistance from college, university, Government or other agencies:**

Financial assistance to students is given to the students as per State Govt norms, TFWS and Minority Scholarship. The same is mentioned in the central record.

31. **Details on student enrichment programmes (Special lectures / Workshops/ Seminar) with external experts:**

- Enrichment programmes organized with the external experts

Sr. No.	Academic Year	Name of enrichment programmes	Name of External	Organization
1	2015-16	Workshop on Simulation 'Proteus' tool for Third and Final Year students	Mr. Sagar Bhagat	eSankalp Solution Pvt. Ltd. Amravati
		Special lecture on basic hands MATLAB Software	Mr. N. V. Raut	KGIET, Darapur
2	2014-15	Industrial Tour at Aurangabad & Nagar (Epitome Pvt. Ltd. & Global Logic Solution)	Trainer	Epitome Pvt. Ltd Pune
		Induction Program for Industry	Trainer	Ingenio Tech. Pvt. Ltd.
3	2013-14	Two days Robotic seminar for 2nd , 3rd and Final year student	Akhilesh Singh Dhandoriya	-
4 5	2012-13	Enterprenuireship Development Program	Mr. Ashish Tarar	Campus Point Solution
5	2011-12	Special lecture on Soft Skills by Prof. Ashish Tarar	Mr. Ashish Tarar	Campus Point Solution

Department organizes Special Student Training Programmes to cultivate

following multidimensional abilities in the students:

- Personal and Career Goal setting
- SWOT Analysis
- Behavioral Skills
- Public Speaking
- Presentation Skills
- Resume Writing
- Listening Skills
- Group Discussion
- Report Writing
- Letter/Application

32. Teaching methods adopted to improve student learning -

Following methods are adopted to improve and maintain learning environment amongst the students-

- Continuous evaluation methods :
  - Tests, re-tests and Prelims examinations
  - Continues evaluation of practicals and mock practical examinations
  - Continues Projects evaluations by expert committees and maintenance of project workbooks.
- Arranging Seminars, Workshop, Conferences, Co-curriculum activities and hands on session by eminent personalities from industry and reputed academic organizations
- Training to faculty through workshops, FDP, STP has enriched performance in teaching. This has strengthened the teaching-learning process.
- Faculty Induction Programs are organized to ensure effective teaching skills.
- Usage of LCD projector, PPT, Quiz, Video, Case studies etc. has made the lectures more interesting, interactive, attentive and hence effective.
- Industrial visits to cater real-time applications.

33. Participation in Institutional Social Responsibility (ISR) and Extension activities-

Following measures/initiatives are taken to enhance social awareness -

- Students participate in various social activities such as 'PRAYUKTI', 'INNOVISION', 'NSS' and extra curriculum activities etc.

Students have inherent self-motivation and willingness to work for common people particularly in villages. Various camps, workshops on general reading-writing, technology awareness and computer literacy were organized for rural school-children.

34. SWOC analysis of the department and
Future plans - Strengths

- Focused and competent Human Resource (HR).
- State of art laboratories
- Adequate placement ratio

Weaknesses

- Revenue from external consultancy needs to be improved
- Less number of high economical return patents
- Less number of reputed transaction papers

Opportunities

- To apply for the PG Program.
- To start new professional courses so as to cater the technological man-power need.

Challenges

- To achieve esteem success rate.
- To provide placement for every student.
- To produce more entrepreneurs.

Future plans:

- To upgrade each faculty with Ph. D. qualification.
- To establish close association with Industry.

Computer Science & Engineering

1. Name of the department : **Computer Science & Engineering**
2. Year of Establishment : **2008**
3. Names of Programs/Courses offered:

Sr. No	Name of the Programme	Year of Establishment
1	UG- BE (Computer Science & Engineering)	2008
2	PG –ME (Computer Science & Engineering)	2014
3	Ph.D.	Not Applicable

4. **Names of Inter disciplinary courses and the departments/units involved:**

Sr. No	Name of the Inter disciplinary Courses	Departments/Units Involved
1	UG- BE Computer Science & Engineering	1
2	PG –ME Computer Science & Engineering	1

5. **Annual/semester/choice based credit system (programme wise):**

Sr. No	Name of the programme	Pattern/System(Annual/semester/choice based credit system)
1	UG- BE Computer Science & Engineering	Semester
2	PG –ME Computer Science & Engineering	Semester
3	Ph.D.	Nil

6. **Participation of the department in the courses offered by other departments**:

Sr. No	Name of the Department	Class	Courses offered
1	Applied Science & Humanities	First Year	Computer Programming
2	Information Technology	Third Year	Introduction of Computer Networks(Free Elective)
3	Information Technology	Third Year	E-Commerce (Free Elective)
3	PG (Specialization)	Nil	Nil
4	PhD -Course work	Nil	Nil

7. **Courses in collaboration with other universities, industries, foreign institutions:**

   Nil

8. **Details of courses/programs discontinued (if any) with reasons**:

   Yeas ,Information Technology branch was started by institution in year 2008 but close in year 2016 due less number admissions

9. **Number of teaching posts**

Designation	Sanctioned	Filled
Professors	1	Nil
Associate Professors	4	Nil
Asst. Professors	14	16
Visiting/ guest faculty	-	3

10. **Faculty profile with name, qualification, designation, specialization, D.Sc./D.Litt./ Ph.D./M.Phil. etc.,)**

Sr. No.	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for last 4
1	Prof. V.P. Nikam	M.Tech, B.E	Asstt Professor cum HOD	Computer Science & Engineering	11 Years	Nil
2	Prof. D. J. Manowar	B.E	Asstt Professor	Computer Science & Engineering	6 Years	Nil
3	Prof. A. A. Chinchamalatpure	M.Tech	Asstt Professor	Computer Science & Engineering	6 Years	Nil
4	Prof. T. N. Ghorsad	M.Tech	Asstt Professor	Computer Science & Engineering	4 Years	Nil
5	Prof. Ms. N. R. Borkar	M.E	Asstt Professor	Computer Science & Engineering	5 Years	Nil
6	Prof. Ms. A. P. Rudey	M.E	Asstt Professor	Computer Science & Engineering	1 Years	Nil
7	Prof. Ms. A. M. Meshkar	M.E	Asstt Professor	Computer Science & Information Technology	1 Years	Nil
8	Prof. Ms. M. A. Wherate	M.E	Asstt Professor	Computer Science & Information Technology	1 Years	Nil
9	Prof. P. M. Lokhande	M.E	Asstt Professor	Computer Science & Engineering	5 Years	Nil
10	Prof. S. T. Ghorsad	M.E	Asstt Professor	Computer Science & Engineering	3 Years	Nil
11	Prof. A. U. Dakhode	M.E	Asstt Professor	Computer Science & Engineering	1 Years	Nil
12	Prof. S. A. Tayade	M.E	Asstt Professor	Computer Science & Engineering	1 Years	Nil
13	Prof. S. D. Kakade	M.E	Asstt Professor	Computer Science & Engineering	1 Years	Nil
14	Prof. M. D. Rakhonde	M.E	Asstt Professor	Computer Science & Engineering	1 Years	Nil
15	Prof. K. S. Karule	M.E	Asstt Professor	Computer Science & Engineering	1 Years	-Nil
16	Prof. S. R. Gehi	M.E	Asstt Professor	Computer Science & Engineering	1 Years	Nil
17	Prof. D. N. Sonune	M.E	Lecturer (Pro-Term)	Computer Science & Engineering	1 Years	Nil
18	Prof. A. A. Chopade	M.E	Lecturer (Pro-Term)	Computer Science & Engineering	1 Years	Nil
19	Prof. M. D. Shirpurkar	M.E	Lecturer (Pro-Term)	Computer Science & Engineering	1 Years	Nil

11. **List of senior visiting faculty**   : Nil

12. **Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty**   : 2.88%

13. **Student-Teacher Ratio (programme wise)** :

Sr. No	Programme	Student-Teacher Ratio
1	UG	15:1
2	PG	12:1

14. **Number of academic support staff (technical) and administrative staff; sanctioned and filled**

Staff details	Sanctioned	Filled
Academic Support Staff	6	2

15. **Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG.:**

Ph.D.	Ph.D. Pursuing	PG	UG
Nil	Nil	15	4

16. **Number of faculty with ongoing projects from National and International funding agencies and grants received**

a)National   : Nil
b)International   : Nil

17. **Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received**
Nil

18. **Research Centre/facility recognized by the University**   : Nil

19. **Publications:**
 a) Publication per faculty   :

Parameters	Number
Number of papers published in peer reviewed journals(National/International)by faculty and students	92
Number of publications listed in International Database(For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database- International Social Sciences Directory, EBSCO host, etc.)	01
Monographs	Nil
Chapter in Books	Nil
Books Edited	Nil
Books with ISBN/ISSN numbers with details of publishers	Nil
Citation Index	191
SNIP	01
SJR	01
Impact factor	5
h-index	13

20. Areas of consultancy and income generated   :

- Department of computer science (Web development lab) developed DGCT website and other ERP Software's . In terms of that department earns 2 lakhs .
- Jagrut Mahavidyalaya, Warud- ERP Software (Cost-Rs. 01 Lac)
- NTR Highschool, Warud - ERP Software (Cost-Rs. 01 Lac)
- Ramkrushna Mahavidyalaya - ERP Software (Cost-Rs. 01 Lac)

21. Faculty as members in

a)   National committees : 03

b)   International Committees **: Nil**

c)   Editorial Boards : Nil

d)   Any other committee:

Sr. No	Name of the faculty	Name of the committee/Role	Nature of work/description
1.	Virendra P. Nikam	University Paper setting Committee	Representative from university to set question papers for UG
2.	Virendra P.Nikam	University Exam Controller	Representative from university for monitoring theory Examination.

22. Student projects

a) Percentage of students who have one in-house projects including interdepartmental/programme : **100**

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies

Programme	Academic Year	Percentage of in-house projects	Percentage of sponsored projects
U G	2015-16	100	0
	2014-15	100	0
	2013-14	100	0
	2012-13	100	0
	2011-12	100	0
PG	2016-17	100	0
	2015-16	100	0
	2014-15	100	0

23. Awards/Recognitions received by faculty and students :

Total Number of students awards	Total Number of Faculty awards
24	Nil

24. List of eminent academicians and scientists/visitors to the department:

Sr. No	Name of eminent academicians, scientists, visitors	Association/Affiliation	Purpose of visit/Topic Covered
1	Ankur R. Patil	Pune University	Guest Lecture
2	Sushil Kumar Jain & Santosh Pushlekar	Jain Finance	Financial Awareness
3	Vishesh Agrawal	Amravati	GATE Awareness
4	Gurmit Singh Mehtab	Studio Blacksmith, India	Communication Enhancement & Personality
5	Subodh Deshmukh	Amravati	Personality Development
6	Mr.Qureshi	Akola	Data warehousing & Data Mining
7	Pushkar Sathe	Informossys, Pune	Ethihical Hacking Workshop
8	Snehal Ganeshpure , Gaurav Astikar	Pune	Android Workshop
9	Dr. R. N. Khobragade	SGBAU, Amravati	Projects Exhibition
10	Prof. G. D. Dalvi	PRPCE, Amravati	NCERT

25. Seminars/Conferences/Workshops organized & the source of funding

a) National   :08

b) International : Nil

Year	Sr. No.	Name of FDP / SDP / STTP / Workshop / Webinar etc.	National/ International/In-house	Sponsoring/ Funding Agency if any	Revenue generated
2015-16	1	Android Application Development	National	Self-Sponsored	-
	2	Personality Development	In-house	Self-Sponsored	-

Year		Name of the topic			
2014-15	3	Data warehousing & Data Mining	In-house	Self-Sponsored	-
	4	Hack Secured Championship	National	Self-Sponsored	-
2013-14	5	Communication Enhancement & Personality	In-house	Self-Sponsored	-
	6	GATE Awareness	In-house	Self-Sponsored	-
	7	Financial Awareness	In-house	Self-Sponsored	-
2012-13	8	Microsoft Windows 8	SGBAU	SGBAU	-
2011-12	8	Personality Development	In-house	Self-Sponsored	-

26. Student profile programme/course wise:

Name of the Course/program		Applications received	Selected	Enrolled		Pass percentage
Cours	Year			*M	*F	
UG	2016-17	Admission process in the state is only through CAP and governed by Director of Technical Education (DTE), Government of Maharashtra. The Institute follows the rules,	26	11	15	Since the college wise application received is with DTE, pass percentage is not available with the institute.
	2015-16		18	12	8	
	2014-15		28	15	13	
	2013-14		12	2	10	
	2012-13		30	13	17	
	2011-12		44	28	16	

	2016-17	regulation & guidelines set by SGBAU Amravati, State Government body. Education (DTE), Government of Maharashtra.	5	02	03	
PG	2015-16		16	07	09	
	2014-15		23	14	09	

*M=Male *F=Female

27. Diversity of Students

Name of the Course/programme		%of students from the same state	% of students from other States	%of students from abroad
Course	Year			
UG	2016-17	100	0	0
	2015-16	100	0	0
	2014-15	100	0	0
	2013-14	100	0	0
	2012-13	100	0	0
	2011-12	99	1	0
PG	2016-17	100	0	0
	2015-16	100	0	0
	2014-15	100	0	0

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Competitive Examinations /Academic Year	No of					
	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17
GATE	1	1	0	0	0	0
GRE/TOEFL	0	0	0	0	0	0
GMAT/CMAT	0	0	0	0	0	0
NET/SET	0	0	0	0	0	0
Civil services	0	0	0	0	0	0
Defense services	0	0	0	0	0	0
Others	0	0	0	1	0	0

29. Student progression

Student	Against % Enrolled					
	2011-12	**2012-13**	**2013-14**	**2014-15**	**2015-16**	**2016-17**
UG to PG	Nil	Nil	20	27.77	11.53	Nil
PG to M.Phil.	Nil	Nil	Nil	Nil	Nil	Nil
PG to Ph.D.	Nil	Nil	Nil	Nil	Nil	Nil
Ph.D. to Post-Doctoral	Nil	Nil	Nil	Nil	Nil	Nil
Employed • Campus selection • Other than campus recruitment	09 0	12 0	08 0	5 0	02 0	02 0
Entrepreneurship/ Self-employment	0	0	0	0	0	0

30. Details of infrastructural facilities.

a) Library

Sr. No	Particulars	Number
1	Titles	396
2	Volumes	1672
3	National Journals	12
4	International Journals	2
5	CDs	156

Department library

- Titles available: 396
- Previous years project reports and seminar reports are available to the students for reference.
- Students and staff can issue books from central library.
- E-resources of syllabus, question bank and previous question papers are available at central library.

b) Internet facilities for Staff & Students

- Staff cabins are fully furnished and equipped with computers, Internet connections, Laser Printer.
- All staff rooms and department office have intercom facility.
- Wi-Fi facility is available in the building, labs and classrooms.
- Power back-up is also provided in all labs for smooth conduction of practical and classes.

c) Class rooms with ICT facility

- 3-class rooms for lectures(core/electives), seminars, and tutorials with Wi-Fi internet connections are available.
- 1- Seminar Halls with a fore mentioned facilities, with a capacity of 250 .

d)Laboratories

Sr. No	Name of Lab	Major Equipments in the department
1	Database Lab	Dual core 2.7
2	Operating System	Dual core 2.7
3	Multimedia Lab	Dual core 2.7
4	Project Lab	Dual core 2.7
5	Network Security Lab	Dual core 2.7
	Total	*95*

31. Number of students receiving financial assistance from college, University, Ggovernment or other agencies

Year	No of students			
	College	University	Government	Other agencies
2016-17	0	0	14	0
2015-16	0	0	52	0
2014-15	0	0	68	0
2013-14	0	0	47	0
2012-13	0	0	103	0
2011-12	0	0	163	0

32. Details on student enrichment programs (Special Lectures/workshops/Seminar) with external experts

Year	Sr. No	Name of Enrichment programs	Name of external Expert	Organization
2015-16	1	Android Application Development Workshop	Snehal Ganeshpure , Gaurav Astikar	Krix Solution
2014-15	2	Personality Development	Subodh Deshmukh	-
	3	Data warehousing & Data Mining	Mr.Qureshi	-
	4	Hack Secured Championship	Pushkar Sathe	Informossys, Pune
2013-14	5	Communication Enhancement & Personality	Gurmit Singh Mehtab	Studio Blacksmith, India
	6	GATE Awareness	Vishesh Agrawal	-
	7	Financial Awareness	Sushil Kumar Jain & Santosh	Jain Finance
2012-13	8	Microsoft Window - 8	SGBAU	SGBAU,Amravati
2011-12	8	Personality Development	Akur Patil	-

- STP I, II, III ,IV information to be added here with respect to your department.

STP-I	**S.E. Semester –I** • Modules: SWOT Analysis, Behavioral Scheme, Report Writing, Resume Writing, Public Speaking, Career Goal Settings etc. • Trainers were Gurmit Singh Mehtab. • Few Faculties from the department also trained and conducted the Sessions • Group discussion conducted. • One Seminar on soft skill development was conducted under STP-I by Subodh Deshmukh • Parent meet were conducted to aware student issue in college premises.
STP-II	**S.E.- Semester –II** • Modules: Reading , Writing, Listening and Speaking • Sessions of one Hrs. per module conducted by our faculties • TWO OAT (Online Aptitude Test) online Tests conducted for all S.E. students, OAT test marks are recorded with Department coordinator
STP-III	**T.E.- Semester-I** • Few subjects selected at department level by conducting central meeting • Then expert team for every subject is decided. After various reviews on the contents of every subject PPTs were prepared. • TWO OAT (Online Aptitude Test) online Tests conducted for all T.E. students, OAT test marks are recorded with Department coordinator.
STP-IV	**T.E. Semester-II** • Keeping in mind about research portion in academic this session is started • OAT (Online Aptitude Test) online Tests conducted for all T.E. students, OAT test marks are recorded with Department coordinator. • Financial awareness seminar was conducted by my Sushil Kumar Jain & Mr. Santosh Pusale on date of 21 sept 2013. Faculties from different departments were participated.

STP-V	**Final Year- Semester-I**
	• OAT (Online Aptitude Test) online Tests conducted for all T.E. students, OAT test marks are recorded with Department coordinator.
	• GATE Awareness campaign was arrange by my **Vishesh Agrawal** on date of 14- 10-2013 to create awareness for higher education.
	• Personality development- Trainer(Mr.Subodh Deshmukh) Total Students:50
	• Sessions conducted during 24 August to 26 August 2015 in Parallel
STP-VI	**Final Year- Semester-II**
	• OAT (Online Aptitude Test) online Tests conducted for all T.E. students, OAT test marks are recorded with Department coordinator.
	• Hack Secured championship : Trainer - Mr.Pushkar Sathe on date - 27- 28 Feb 2015
	• Data warehousing & Data mining- Trainer(Mr.Qureshi) Total Students:48 on Date - 15 Jan 2015.

33. Teaching methods adopted to improve student learning

- Mini project work and assignments for specific subjects
- Educational visits to the IT industries and guest lecturers from experts.
- Brainstorming sessions for electives offered for BE students.
- Mock practical, preliminary exams and written assignments are given to students for practice; before final examinations.
- Group assignment .
- Animation, Video to explain academic subjects.
- Animation and Video to explain basic working of Internet in CN

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

- Social activities under National service Scheme(NSS) which students takes part for various activities such as Computer Literacy, Gram Swaccha Abhiyan,Cashless India, ,career counseling, blood donation, General awareness, books and bags donation.
- Various social activities like orphanage visit, plantation, Inspirational lectures, 7-days residential camp etc. are conducted under NSS club.

35. SWOC analysis of the department and Future plans

Strengths

- Demand for the course in market
- Every year attracting very good input quality of students across the India
- Conducive working and Learning leading to faculty and staff retention
- Well qualified, experienced and dedicated faculty members.
- Emphasis on holistic development of students
- Good placement record
- Excellent Infrastructure Facility
- Well-equipped classrooms and laboratories

Weaknesses

- Industry Institution Interaction needs to be strengthened further
- Faculties with industrial experience are less in number
- Market demand changes frequently; but Syllabus Changed after Five Years
- Lack of funded projects

Opportunities

- Fund raising through consultancy and project work
- Starting Ph.D research Center is in pipelining
- Industry oriented training
- Situated in Darapur, where an opportunity for rural devotement in education sector.
- Enhancing number of students opting for entrepreneurship

Challenges

- Coping with rapid changing IT Industry and its requirements to improve the employability of the students
- Exposing the teaching faculty to the Industrial scenario and get them trained in an Industry

Future Plans

- To establish Research Centre in Mechanical Engineering for Ph.D. course
- To improve focus on research-based education
- To enhance Industry Institute Interaction

Electrical Engineering

1. **Name of the department**   : **Electrical Engineering**

2. **Year of Establishment**   : **2010**

3. **Names of Programmer / courses offered:**

Courses	BE(Electrical Engineering)-**Undergraduate**	M.E.(Electrical Power System)-**Postgraduate**
Year of Establishment	**2010**	**2014**

4. **Names of Interdisciplinary courses and the departments/units involved** :
   - Course Name :

S.N.	Name of Subject	Subject Code	Semester	Department Involved
1.	Mathematics-III	3EE01	Third	First Year/ Mathematics
2.	Energy Resources & Generation	3EE03	Third	Mechanical Engineering
3.	Electronic Devices & Circuits	3EE04	Third	Electronics & Telecommunication Engineering.
4.	Analog & Digital Circuits	4EE03	Fourth	Electronics & Telecommunication Engineering.
5.	Mathematics IV	4EE04	Fourth	First Year/ Mathematics
6.	Microprocessor & Microcontroller	5EE02	Fifth	Electronics & Telecommunication Engineering.
7.	Free Elective-I	5FEEE05	Fifth	Mechanical, Electronics & Information

				Technology Engineering
8.	Communication Skills	5EE06	Fifth	First Year/(Communication Skill)
9.	Power Electronics	6EE03	Sixth	Electronics & Telecommunication Engineering.
10.	Free Elective-II	6FEEE05	Sixth	Mechanical, Electronics & Information Technology Engineering.
11.	Digital Signal Processing	8EE03	Eighth	Electronics & Telecommunication Engineering.

5. **Annual/semester/choice based credit system (programme wise**): **Semester Based Credit System.**

6. **Participation of the department in the courses offered by other departments** :

Courses offered by other departments	Number of Faculty engaged
NIL	

7. **Courses in collaboration with other universities, industries, foreign institutions, etc.:**   The Institute is affiliated to Sant Gadge Baba Amravati University. There is no provision in this University to run such courses

8. **Details of courses/programs discontinued (if any) with reasons**: **NIL**

9. **Number of teaching posts** :

Posts	Sanctioned	Filled
Professor	01	NIL
Associate Professor	02	NIL
Assistant Professor	17	20

10. Faculty profile with name, qualification, designation, specialization, .(M.E., M. TECH., M.Sc.D.Sc./D.Litt./Ph.D./M.Phil.etc.,) :

Name of the Faculty	Qualification	Designation	Specialization	No. of year of experience	No. of Ph.D & PG students guided (awarded)
Mr. Atul. N. Kausal	ME (EPS)	Assistant Professor	Electrical Power System	12	06
Mr. Nikhil A. Bodkhe	ME (EPS)	Assistant Professor	Electrical Power System	03	NIL
Mr. Roshan R. Deotare	ME(EPS)	Assistant Professor	Electrical Power System	03	NIL
Mr. Prashant G. Bonde	ME(EPS)	Assistant Professor	Electrical Power System	03	NIL
Mr. Nikhil D. Wadokar	ME(EPS)	Assistant Professor	Electrical Power System	02	03
Mr. Sachin A. Nandeshwar	ME(Digital Electronics)	Assistant Professor	Digital Electronics	07	NIL
Miss.Pallavi H. Pikale	ME(EPS)	Assistant Professor	Electrical Power System	01	03
Mr. Amol M. Raut	ME(EPS)	Assistant Professor	Electrical Power System	1.5	NIL
Miss.Pallavi R.Dole	ME(EPS)	Assistant Professor	Electrical Power System	2	NIL
Mr. Abhijit G. Thokal	ME(EPS)	Assistant Professor	Electrical Power System	3	NIL
Miss.Puja J. Ghorale	ME(EPS)	Assistant Professor	Electrical Power System	01	NIL
Miss. Ujwala S. Raut	ME(EPS)	Assistant Professor	Electrical Power System	01	NIL
Mr. Nikhil P. Yawale	ME(EPS)	Assistant Professor	Electrical Power System	01	NIL
Mr.	ME(EPS)	Assistant	Electrical	01	NIL

Anantkumar M. Mankar		Professor	Power System		
Mr. Gaurav D. Thakare	ME(EPS)	Assistant Professor	Electrical Power System	01	NIL
Mr. Rupesh Gaud	ME(EPS)	Assistant Professor	Electrical Power System	01	NIL
Ms. Nita V. Pund	ME(EPS)	Assistant Professor	Electrical Power System	01	NIL
Mr. Kunal R. Dole	ME(EPS)	Assistant Professor	Electrical Power System	01	NIL
Ms. Monali A. Malasane	ME (EPS)	Assistant Professor	Electrical Power System	01	NIL
Mr. Parag D. Ajane	ME (EPS)	Assistant Professor	Electrical Power System	01	NIL
Mr. Umar Farooque Karim Khan	B. E. (EXTC)	Assistant Professor (Adhoc)	Electronics & Telecommunication	01	NIL

- No. of temporary faculty (Fix-pay/CHB): **NIL**

11. List of senior visiting faculty: NIL

12. Percentage of lectures delivered and practical classes handled (programmewise) by temporary faculty :

Course	% of theory class handled	% of Practical class handled
Nil	**Nil**	**Nil**

13. Student-Teacher Ratio (programme wise):

Programme	Ratio (Student-Teacher Ratio)
UG	15:1
PG	12:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

	Sanctioned	Filled
Administrative Staff **(Technical)**	03	02
Support Staff	01	01

15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D./M.Phil/PG

Qualifications	Ph.D.	M.E./ M.Tech.	M.Sc. (NET/SET)	M.Sc.
Number of permanent faculty	NIL	04-UGC Approved & 15-Regular	NIL	NIL
Number of Temporary faculty	NIL	NIL	NIL	NIL

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: Ongoing project-NIL

Sr. No	Name of faculty	Project	Project Topic	Funding Agency	Grants Received
NIL	**NIL**	**NIL**	**NIL**	**NIL**

17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR,etc.and total grants received: Completed project

Name of Faculty	Project	Project Topic	Funded Agency	Grants Received
NIL	**NIL**	**NIL**	**NIL**	**NIL**

18. Research Centre/facility recognized by the University:

No. of Supervisor	Intake Capacity	No.of Research Lab.	No of research Students		No. of Ph.D.	
			Registered	Yet to be registered	Awarded	Thesis Submitted
NIL	**NIL**	**NIL**	**NIL**	**NIL**	**NIL**	**NIL**

19. Publications:

a) Publication per faculty/student

Name of Faculty Student	No. of Papers published			
	National	International	Proceeding	Conference Presented
Mr. Atul.N .Kausal	NIL	05		
Mr. Nikhil A. Bodkhe		01		
Mr. Roshan R. Deotare	01	01		
Mr. Prashant G. Bonde	01	01		
Mr. Nikhil D. Wadokar	02	03		
Mr. Sachin A. Nandeshwar	02	**NIL**		
Miss.Pallavi H. Pikale	01	02		
Mr. Amol M. Raut	01	02		
Harshal Tijare		01		
Pawan Thakare		01		

b) Other Publication by Faculty/ Students

Name of Faculty	No. of Paper Presented on Conference /Workshop/Seminar, etc.	No. of Conference /Workshop / Seminar, etc. attended	Chapters in book	Books /Journals edited	Books with ISBN /ISSN number
Mr. Atul.N .Kausal	03-Conferences,	02-Workshops			
Mr. Nikhil A. Bodkhe	**NIL**	**NIL**			
Mr. Roshan R. Deotare	**NIL**	**NIL**			
Mr. Prashant G.	**NIL**	**NIL**			

Bonde					
Mr. Nikhil D. Wadokar	02	02-Workshop			
Mr. Sachin A. Nandeshwar	**NIL**	**NIL**			
Miss.Pallavi H. Pikale	04	01-Workshop			
Mr. Amol M. Raut	01	01			
Monika Zade	03				
Aishwarya Kosamkar	02				
Kajal Tipare	01				
Poonam Dhote	01				
Prachika Gedam	01				
Abhijit Tangale	01				
Mahendra Gade	02				
Digambar Pund	01				
Diksha Surwade	02				
Pooja Dhale	01				
Avinash Ingale	01				
Yashshri Pawar	01				
Sonali Zade	01				
Neha Joshi	01				
Pratibha Jawanjal	01				
Poonam Deshmukh	01				
Aditya Datir	01				
Pooja Jogi	01				
Gaurav Vairale	01				
Prachi Shelokar	01				

20. Areas of consultancy and income generated :<u>NIL</u>

21. Faculty as members in

    a. **National committees b) International Committees c) Editorial Boards**….

Name of Faculty	Editorial Boards	University Committees (BOS/MC/Senate/LEC/etc.)	Any other Committee
NIL			

22. **Students Projects:**

a) Percentage of students who have done in-house projects including inter departmental/ programme.

Course	% of Students
BE-Electrical Engineering	90%

b.) Percentage of students placed for projects in organization outside the institute ie in Reserch laboratories/Industry/other agencies:

Agency/ field	% of students
Reserch Laboratories	NIL
Industry	10%
Other agency	NIL
Inhouse Agency	80%

23. Awards/ Recognitions received by faculty and students:

Ph.D	P.hD. Supervisor recognition	Research Awards	Best paper /poster presentation award	Travel grand from UGC/AICTE ect	FIP/R/O	Award from Central/ State	Award from Uni. /Society / College ect.
NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL

R-Refresher and O-Orientation

Students Academic Achievements:

S.N.	Name of student	Event Name	Place and Date	Position	Date
1	Monika Zade	Paper presentation	IBSS College of engg. & Technology, Amravati	Second	27/01/2015
2	Mahindra gade	Paper presentation	Raisoni C.O.E, Amravati	Second	2015-16
3	Aishwarya Kosamkar	Paper presentation	Dr.Sau KGIET Darapur	Second	14/02/2015
4	Dhiraj Gawande	University Topper-1st Rank	Amravati University, Amravati	First	13/08/2016
5	Ku.Prachika G. Gedam	University Topper-1st Rank	Amravati University, Amravati	First	14/08/2014
6	Ku. Aishwarya Kosamkar	Paper Presentation	Dr.Sau KGIET Darapur	First	11-12 February 2017
7	Ku. Aishwarya Kosamkar	Prajwalan	Govt. COE, Amravati	Second	Feb-March-2017
8	Abhijit Tangale	Paper Presentation	Raisoni COE, Amravati	Second	2016
9	Mahendra Gade	Paper Presentation	Raisoni COE, Amravati	Second	2016

24. List of eminent academicians and scientists/ visitors to the department:

Sr. No.	Eminent academicians and scientists/ visitors with work place	Field
1	**Dr. S.R.Paraskar** Professor,SSGMCE,Shegaon	Power System ,Power System Protection,
2	**Dr.A.U.Jawadekar** Associate Professor,SSGMCE,Shegaon	AI,DSP,Microprocessor, Contoller,SAS
3	**Mr. M. R. Salodkar** Ex. Executive Engineer,Amravati.	High Voltage Transmission, Power Stations, Protection

25. Seminar / conferences/ Workshops organized and the source of funding

Events	Level	Source of funding	Grant Recived
Prayukti-13	**National**	**Management**	**50000**
Prayukti-15	**National**	**Management**	**65000**
Prayukti-17	**National**	**Management**	**85000**

26. Students profile programme /course wise:

Department	Year	Total Number of Students appeared	Total Number of Students passed	Total No. of Girls Passed	Total No. of Boys Passed	Passing Percentage
Name of Dept.[UG]	2016-2017	55	Appear	38	17	Appear
	2015-2016	54	49	10	39	90.74
	2014-2015	29	18	12	6	62.07
	2013-2014	23	18	9	9	78.26
	2012-2013	**NA**				
	2011-2012	**NA**				
Name of Dept.[PG]	2016-2017	4	0	0	0	0
	2015-2016	11	0	0	0	0
	2014-2015	**NA**				
	2013-2014	**NA**				
	2012-2013	**NA**				
	2011-2012	**NA**				

27. Diversity of Students:

Name of the course	% of students from same state	% of students from other state	% of students from abroad
UG	100%	NIL	NIL
PG	100%	NIL	NIL

28. How many students have cleared National and State competitive examinations such as GATE, Civil Services, Defense services, etc.?

GATE	Civil services	Defense services	PAT	Any other
04				

29. Students progression:

Students progression	Against % enrolled
UG to PG	27%
PG to Ph D	
PG to post-doctoral	
Employed –Campus Selection	20
Entrepreneurship/ self-employment	05

30. Details of Infrastructural facilities:

Sr. No.	Infrastructural facilities	Status	Nos.
1	Library (departmental)	Books: Journal: Reference Book: Any other reading material:	**NIL**
2	Internet facilities for staff and tudents	No. of computer: No. of computer with Internet:	26 20
3	Classroom with ICT facilities	No. of class room with capacity: No. of LCD Projector: No. of OHP: No. of scanner: No. of printer: No. of software with cost:	3 CR/72 Student each class 01 NIL NIL 01 01 (Rs.150000)
4	Laboratories with capacity	No. of Lab: No. of research Lab:	06 (20 students in each batch) NIL
5	Other	Staff room: Store: HOD & Coordinator cabin:	02 00 01

31. Students receiving financial assistance from college, university, government or other agencies: **As per the Government & college Norms.**

(Free-ships, scholarships, Prizes, Financial assistance for UG/PG needy students)

32. Details on students enrichment programmers (special lectures/workshops/seminar/educational tour/industrial visit/ etc.) with external experts:

Acadamic Year	ELESA Co-ordinator Selected
2013-2014	Neha Joshi
2014-2015	Kajal Tipare
2015-2016	Dhiraj Gawande
2016-2017	Aishwarya Kosamkar

S.N.	Name of student	Event Name	Place and Date	Position	Date
1	Monika Zade	Paper presentation	IBSS College of engg. & Technology, Amravati	Second	27/01/2015
2	Mahindra Gade	Paper presentation	Raisoni C.O.E, Amravati	Second	2015-16
3	Aishwarya Kosamkar	Paper presentation	Dr.Sau KGIET Darapur	Second	14/02/2015
4	Dhiraj Gawande	University Topper-1st Rank	SGBAUniversity, Amravati	First	13/08/2016
5	Ku.Prachika G. Gedam	University Topper-1st Rank	SGBAUniversity, Amravati	First	14/08/2014
6	Ku. Aishwarya Kosamkar	Paper Presentation	Dr.Sau KGIET Darapur	First	11-12 February 2017
	Ku. Aishwarya Kosamkar	Prajwalan	Govt. COE, Amravati	Second	Feb-March-2017
8	Abhijit Tangale	Paper Presentation	Raisoni COE, Amravati	Second	2016
9	Mahendra Gade	Paper Presentation	Raisoni COE, Amravati	Second	2016

Industrial Visit

S.N.	Year	No. of Students	Place	Date/Year
1	2012-13	9	Mahagenco Koradi Training Centre nagpur	24/12/12-19/01/2013
2	2013-14	28	Traction Substation , Badnera railway station , amravati	11-Mar
3	2014-2015	45	ADANI Power ,Tiroda ,Gondia	3/01/2015-4/01/2015
4	2015-2016	40	Automation and control system , Pune	2/02/2016-7/02/2016

Company Selection:

Placement Record From 2013-2017					
Sr. No.	Name	Recruiter	Branch	Designation	Package
1	Joshi Neha Rajendra	Spectrum Planning Sevices	EE	GET	1.44 LPA
2	Tanode Siddharth Narayan	Spectrum Planning Sevices	EE	GET	1.44 LPA
3	Arbat Tejas Jagannathrao	Spectrum Planning Sevices	EE	GET	1.44 LPA
4	Chandurkar Rushikesh Y.	Spectrum Planning Sevices	EE	GET	1.44 LPA
5	Chaudharee Dipalee Arvind	Spectrum Planning Sevices	EE	GET	1.44 LPA
6	Chaudhari Shyam Ratnakar	Spectrum Planning Sevices	EE	GET	1.44 LPA
7	Chaware Chinmay Avinash	Spectrum Planning Sevices	EE	GET	1.44 LPA
8	Gedam Prachika Balasaheb	Spectrum Planning Sevices	EE	GET	1.44 LPA

9	Pande Akshay Krushnakumar	Spectrum Planning Sevices	EE	GET	1.44 LPA
10	Pawar Ankita Shridharrao	Spectrum Planning Sevices	EE	GET	1.44 LPA
11	Pawar Yashashri Damodhar	Spectrum Planning Sevices	EE	GET	1.44 LPA
12	Kajal Rajesh Tipare	Kalika Steel	EE	GET	1.2 LPA
13	Punam Nanadkumar Dhote	Kalika Steel	EE	GET	1.2 LPA
14	Kaustubh Ravindra Sonar	Kalika Steel	EE	GET	1.2 LPA
15	Monika Zade	Pompeii Technologies Pvt. Ltd.	EE	GET	3.00 LPA.
16	Pratibha Jawanjale	Pompeii Technologies Pvt. Ltd.	EE	GET	3.00 LPA.
17	Shailendra Balasaheb Bhople	Tapadiya Polysters	EE	GET	1.44 LPA.
18	Rushikesh Shivrao Deshmukh	Tapadiya Polysters	EE	GET	1.44 LPA.
19	Ravikumar Gajrath Lodh	PGM Precautions solutions Pvt. ltd.	EE	GET	1.44 LPA.
20	Aishwarya Kosamkar	Epic Reasearch Indore	EE	GET	3.00 LPA.

Special lectures for student's enrichment programme:

S.N.	Title of Program	Details of Resource Person	Department	Date
2	Gest lecure on Energy Audit	Mr. Manoj Tawalarkar	Assistant Engg. MSEB, Dayrapur	10/02/2016
3	Speech on Engineer's day	Prof. D. V. Shirbhate	Principal at VSPD Darapur	15/09/2015
4	Guest Lecture on Teacher Day	Prof. Ajay Khambre	Asst. Prof. at HVPM COET	18/11/2015
6	Gest lecure Renewable Energy Souces	Mr. N. M. Tembhurne	C/S W Railway Amravati Station	10/03/2017
7	Special Guest & Speech on Engineer's day	Mr. Nishit Goenka	Chief Technology officer BITS Soft Technology Ltd. Nagpur	19/09/2016

Educational tour/industrial visit for student's enrichment programmed:

S.N.	Year	No. of Students	Place	Date/Year
1	2012-13	9	Mahagenco Koradi Training Centre nagpur	24/12/12-19/01/2013
2	2013-14	28	Traction Substation , Badnera railway station , amravati	11-Mar
3	2014-2015	45	ADANI Power ,Tiroda ,Godia	3/01/2015-4/01/2015
4	2015-2016	40	Automation and control system , Pune	2/02/2016-7/02/2016

33. Teaching methods adopted to improve student learning:

- In order to make the teaching –learning process more practical, we have introduced learning model.

- We have introduced case method of teaching, video lectures, debates, Student seminar.
- Outdoor learning is also encouraged.
- Students actively participate in entrepreneurship cell activities which help them identify the entrepreneurial spirit hidden in them.

- We provide effective and best tool for teaching & learning – Smart Classrooms with Smart Boards.

- Using Smart Boards faculty can effectively convey concepts in a HD quality and colorful views.

- Demo and application videos from internet can be shown with effective audio effects.

- We provide WIFI facility for the students for effective browsing anywhere inside the campus.

34. Participation in Institutional Social Responsibility (ISR) and Extension Activities :

- Institutional Social Responsibility (ISR)
- Blood Donation Camp
- Fresher's Day
- Independence Day Celebration
- General Orientation Program
- Teacher's day 5th September
- Tree Plantation
- NSS Day Celebration
- National Food Day
- National Education Day
- World HIV Day
- Republic Day Celebration
- Tree Plantation

35. SWOC analysis of the department and future plans:

Strength:

Since we have a faculty member student ratio 1:15 we can closely monitor them in their Curricular and co-curricular activities.

- We are following highly appreciated system, developed by the college.
- Our students are regularly getting university ranks.
- Department frequently arranges guest lectures, industrial visits and industrial tours to our students.

Weakness:

- Since Our College is far away from the city we could not over stay to continue our activities of a day.

- Since we are an affiliated institution of SGBAU University, Amravati we cannot make many changes in the syllabus suiting to our students' standards and industry.

Opportunities:

- To become a research centre with existing facilities.
- Industry institute interaction can be enhanced with software industries.
- To train students on areas such as big data analysis, cloud computing, Mobile applications etc.

Challenges & Future Plans:

- To get research Centre status for department.
- To have more funded research projects.
- To conduct more workshops, lectures etc for making students to meet the Industry needs.
- To encourage students to undergo extra courses, summer training etc.

Any other:

Collaboration/Linkages: **NIL**

Resource person (Chair the session/Invited Talk/Guest Lecture):

Resource person	Chair the session	Topic
Mr. A.N. Kausal	Mr. M.R. Salodkar	Power System Protection

Life Member of various association/NGO/Society:

1. LMISTE
2. IETE

Name of Faculty	Membership In Professional Body
Mr. A.N.Kausal	LMISTE,IETE

Convener of college committee with name of committee:

Name of Convener	Name of committee
NIL	

Awards/Recognitions received by students:

S.N.	Name of student	Event Name	Place and Date	Position	Date
1	Monika Zade	Paper presentation	IBSS College of engg. & Technology, Amravati	Second	27/01/2015
2	Mahindra gade	Paper presentation	Raisoni C.O.E, Amravati	Second	2015-16
3	Aishwarya Kosamkar	Paper presentation	Dr.Sau KGIET Darapur	Second	14/02/2015
4	Dhiraj Gawande	University Topper-1st Rank	Amravati University, Amravati	First	13/08/2016
5	ku.Prachika G. Gedam	University Topper-1st Rank	Amravati University, Amravati	First	14/08/2014
6	Ku. Aishwarya Kosamkar	Paper Presentation	Dr.Sau KGIET Darapur	First	11-12 February 2017
7	Ku. Aishwarya Kosamkar	Prajwalan	Govt. COE,Amravati	Second	Feb-March-2017
8	Abhijit Tangale	Paper Presentation	Raisoni COE,Amravati	Second	2016
9	Mahendra Gade	Paper Presentation	Raisoni COE,Amravati	Second	2016

Civil Engineering

1. **Name of the department**   : **Civil Engineering**

2. **Year of Establishment**   : **2014**

3. **Names of Programmer / courses offered:**

Courses	BE (Civil Engineering)-**Undergraduate**
Year of Establishment	**2014**

4. **Names of Interdisciplinary courses and the departments/units involved :**
   - Course Name :Department of Civil Engineering

S.N.	Name of Subject	Subject Code	Semester	Department Involved
1.	Mathematics-III	3CE01	Third	First Year/ Applied Science & Humanities Department
	Environmental studies		Third & Fourth	
2.	Free Elective-I, Consumer electronics	5FEEE05	Fifth	Electronics & Information Technology Engineering
3.	Communication Skills	5EE06	Fifth	First Year/(Communication Skill)
4.	Free Elective-II, Non-Conventional Energy System.	6FEEE05	Sixth	Mechanical Department
5.	Fluid Mechanics.	4 CE02 & 5CE02		Civil Engineering

5. **Annual/semester/choice based credit system (programme wise)**: **Semester Credit Grade System.**

Courses offered by other departments	Number of Faculty engaged
Engineering Mechanics, First Year Deptt.	02
Mechanics of Material Mechanical Deptt.	02

6. **Participation of the department in the courses offered by other departments** :

   Yet not offered.

7. **Courses in collaboration with other universities, industries, foreign institutions, etc.:**

   The Institute is affiliated to Sant Gadge Baba Amravati University. There is no provision in this University to run such courses

8. **Details of courses/programs discontinued (if any) with reasons**: **NIL**

9. **Number of teaching posts** :

Posts	Sanctioned	Filled
Professors	1	NIL
Associate Professors	2	NIL
Assistant Professors	16	12

10. Faculty profile with name, qualification, designation, specialization,.(M.E., M. TECH., M.Sc.D.Sc./D.Litt./Ph.D./M.Phil.etc.,) :

Sr No	Name of the Faculty	Qualification	Designation	Specialization	No. of year of experience	No. of Ph.D./students guided (awarded)
1	Mrs. Bharati Sunil Shete	B.E., M.E, DBM, Ph.D. Pursuing	Asst Professor	Environmental Engineering	19 Years	
2	Mr. Hemant K Lonpande	B.E., M.Tech	Asst Professor	Structural Engineering	7 Years	
3	Mr Sandeep P Dongre	B.E., M.E	Asst Professor	Structural Engineering	4.5 years	
4	Mr. M M Inamdar	B E Civil	Asst Professor	Nil	1.5 years	
5	Mr. D M Khandare	B E, M E	Asst Professor	M. E. Transportation Engg	1.5 years	Nil
6	Mr. G R Bharsakle	B.E., M.E	Asst Professor	Structural Engineering	9 Years	
7	Mr. M Sameer M Zaheed	B.E., M.E	Asst Professor	Structural Engineering	1.5 years	
8	Mr Ankur G Dawre	BE Civil	Adhoc Lecturer	Nil	1.5 years	
9	Mr Amogh Ajay Malokar	B.E., M.E	Asst Professor	Structural Engineering	1.5 years	
10	Ms. Janhavi S Sonar	B E Civil	Adhoc Lecturer	Nil	0.5 years	

- No. of temporary faculty (Fix-pay/CHB): NIL

11. List of senior visiting faculty: NIL

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty : NIL

13. Student-Teacher Ratio (programme wise):

Year	Programme	Ratio (Student-Teacher Ratio)
2015-16	UG	12:1
2016-17	UG	12:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Designation	Sanctioned	Filled
Administrative Staff (Technical)	01	01
Support Staff	01	01

15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D./M.Phil/PG

Qualifications	Ph.D.	M.E./ M.Tech.	M.Sc. (NET/SET)	M.Sc.
Number of permanent faculty	NIL	01-UGC Approved & 7-Regular, 2 Adhoc	NIL	NIL
Number of Temporary faculty	NIL			

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: Ongoing project-NIL

17. **Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc.**
    and total grants received: Completed project   **NIL**

18. **Research Centre/facility recognized by the University:**   **NIL**
19. **Publications:**

a) **Publication per faculty/student**

Name of Faculty	Details	Year						Total
		2011-12	2012-13	2013-14	2014-2015	2015-2016	2016-2017	
Prof. MrsBharati Sunil Shete		3	4	4	4	3	-	18
Prof. Mr. H. K. Lonpande		2						3
Prof. M M Inamdar	**Number of paper presented**				01			1
Prof. G R Bharsakle					01			1
Prof. Amogh Ajay Malokar					1	2		3
Prof.Ms. Janhavi S Sonar					1			1
Total		5	4	4	8	5		26

b) **Other Publication by Faculty:**

Book published

Mrs Bharati Sunil Shete published a book on Environmental Engineering II, the subject of 8th semester in civil engineering based on Sant Gadge Baba Amravati University, Amravati's course curriculum in 2015-16 by **Aditya Publication** at Amravati having ISBN no. as 978-81-928888.

IInd edition of the same book is published in 2016-17

c) **STTP/Workshop attended by Faculty:**

No of faculty	STTP ATTENDED	Workshop Attended	International Conferences attended	National Conferences attended	Technical training completed	FDP
Prof. Mrs.Bharati Sunil Shete	2	4	4	5	01 "Diploma in Building Design" Using AutoCAD & Revit Software at CADD centreTraining Services, Amravati	NIL
Prof. H. K. Lonpande	NIL	4	NIL	3	NIL	01C-DAC in GEOINFORMATICS CDAC advanced computing training school, Pune
Prof. Amogh Ajay Malokar	1	1	1	3	SAP-2000 , SAFE & RCC manual design course at BSB CADD in 23/8/16 to	NIL

					7/9/16	

20. Areas of consultancy and income generated : 4

Industrial work

a) Preparing Building plans for DGCT and supervision on under construction building

b) Preparing estimate for Nala renovation work

Sr No	Year	Income Generated
1	2015-16	0.5 lac
2	2016-17	0.45 lac

21. Faculty as members in

a. National committees b) International Committees c) Editorial Boards….
   NIL

22. Students Projects:

a) **Percentage of students who have done in-house projects including inter departmental/ programme.**

Course	% of Students
BE-Civil Engineering	90%

b.) **Percentage of students placed for projects in organization outside the institute i.e. in Research laboratories/Industry/other agencies:**

Agency/ field	% of students

Research Laboratories	NIL
Industry	NIL
Other agency	NIL
Inhouse Agency	80%

23. Awards/ Recognitions received by faculty: <u>NIL</u>

23.1 Awards/ Recognitions received by students:

Students' Academic Achievements:

R.N.	Name of student	Event Name	Position	Place	Name of Project
1	Mr. Devendra Kothwar, Payal Mukholkar and team	Prayukti-17	First	DR. Sau. KGIET Darapur	Water Shed Management
2	Miss.Aashna Firdous, Miss.Payal Mukholkar	Prayukti-17	First	DR. Sau. KGIET Darapur	Sonication (Paper)
3	Mr.Kushal Sangrame, Miss.Akansha Pande	Prayukti-17	Second	DR. Sau. KGIET Darapur	Flyover Bridges(Paper)

24. List of eminent academicians and scientists/ visitors to the department:

Sr. No.	Eminent academicians and scientists/ visitors with work place	Field
1	**Dr. N. P. Shinkar** HOD Government Polytechnic, Ratnagiri	Environmental Engineering
2	**Dr. P. S Pajgade** Professor, PRMIT & R Badnera Amravati	Structural Engineering
3	**Dr. N.W Ingole** Professor, PRMIT & R, Amravati	Environmental Engineering
4	**Dr. S. K. Deshmukh** Professor, Principal COET Akola	Structural Engineering
5	**Dr. K. Ravi**	Babasaheb Naik College of Engg. Pusad

	Civil Engg. & Town Planning	

25. Seminar / conferences/ Workshops organized and the source of funding

Events	Level	Source of funding	Grant Received
Prayukti-17	**National**	**NIL**	**NIL**

26. Students profile programme /course wise: NIL

27. Diversity of Students:

Name of the course	% of students from same state	% of students from other state	% of students from abroad
UG	100%	NIL	NIL
PG	100%	NIL	NIL

28. How many students have cleared National and State competitive examinations such as GATE, Civil Services, Defense services, etc.?

GATE	Civil services	Defense services	PAT	Any other
NIL				

29. Students progression: NA

30. Details of Infrastructural facilities:

Sr.No.	Infrastructural facilities	Status	Nos.
1	Library (departmental)	Books: Journal: Reference Book: Any other reading material:	IS codes 456, 800 and other relevant IS codes are there.
2	Internet facilities for staff and students	No. of computer: No. of computer with	13 12

3	Classroom with ICT facilities	No. of class room with capacity: No. of LCD Projector: No. of OHP: No. of scanner: No. of printer: No. of software with cost:	3 CR/72 Student each class 01 NIL NIL 01 01 (Rs.280000)
		internet:	
4	Laboratories with capacity	No. of Lab: No. of research Lab:	10 (20 students in each batch) NIL
5	Other	Staff room: Store: HOD & Coordinator cabin:	02 00 01

31. Students receiving financial assistance from college, university, government or other agencies: As per the Government & college Norms.

(Free-ships, scholarships, Prizes, Financial assistance for UG/PG needy students)

Sr. No.	Name of Student	Event	Position	Name of college	Project/paper
1	Mr. Devendra Kothwar	Prajwalan - 17		Govt. college of Engg. Amravati	Truss A Frame
2	Roshan Dongre	Esperanza - 17		PRMIT & R Amravati	IPL Auction
3	Payal Mukholkar	Esperanza - 18		PRMIT & R Amravati	Tech-Know-Docx
4	Mr. Devendra Kothwar	Esperanza - 19		PRMIT & R Amravati	Tech-Know-Docx
5	Mr. Devendra Kothwar, Payal Mukholkar and	Prayukti-17	First	Dr. Sau. KGIET Darapur	Water Shed Management

	team			
6	Miss Raibole, Miss Aashna Firdous, Miss Bhavna	Murambha event 2015 (Project)		Muramba, Murtijapur	Strengthening of load bearing structure in rural area
7	Mr.Hemant Bhadke, Miss.Sweeta Tayade	Murambha event 2016 (Project)		Muramba, Murtijapur	Low cost sewage treatment
8	Miss Sakshi Sekokar, Mr Devindra Kothwar	Prayukti-17		Dr. Sau. KGIET Darapur	Storagr of strome water
9	Miss.Mithila Bhadange, Mr.Shubham Khandare, Miss. Durgeshvari Ganeshe	Prajwalan - 17		Govt. college of Engg. Amravati	Model Making
10	Miss.Aashna Firdous, Miss.Payal Mukholkar	Prayukti-17	First	Dr. Sau. KGIET Darapur	Sonication (Paper)
11	Mr.Kushal Sangrame, Miss.Akansha Pande	Prayukti-17	Second	Dr. Sau. KGIET Darapur	Flyover Bridges(Paper)

32. Details on students enrichment programmers (special Lectures/ workshops/ seminar/ educational tour/industrial visit/ etc.) with external experts:

Educational tour/industrial visit for student's enrichment programmed: Industrial Visit

S.N.	Year	No. of Students	Place	Date/Year

1	2015-2016	45	Chikhaldara for Stone Masonry Construction, Curved routes	6/10/2015
2	2015-2016	55	College Campus Dr. Sau KGIET, Darapur on under Construction building	4/10/15
3	2015-2016	40	Concrete blocks making, Crusher Plant, Road pavers making under construction building	2/03/2016
4	2016-17	62	Badnera Railway station , Amravati	11-Mar-16
5	2016-2017	68	College Campus Dr. Sau KGIET, Darapur on under Construction building	17/10/16

Special lectures for student's enrichment programme:

S.N.	Title of Program	Details of Resource Person	Department	Date
1	Guest lecture on Environmental Engg.	Dr. N P Shinkar	HOD Govt Polytechnic, Ratnagiri	14/02/2015
2	New Construction Techniques	Prof. M T Inamdar	Building Maintenance deptt. MCVC	12/09/2015
3	Guest Lecture on Estimating & Costing	Mr. Nitin Wankhede	Builder & Contractor Amravati	27/8/2016
4	Low cost waste water treatment	Prof. R R Wankhede	PRMCOEM, Amravati	22/2/17

33. Teaching methods adopted to improve student learning:

In order to make the teaching –learning process more practical, we have introduced learning model.

- We have introduced case method of teaching, video lectures, debates, Student seminar.
- Outdoor learning is also encouraged.
- Students actively participate in entrepreneurship cell activities which help them identify the entrepreneurial spirit hidden in them.
- We provide effective and best tool for teaching & learning – SMART CLASS

ROOMS WITH SMART BOARDS.

- Using Smart Boards faculty can effectively convey concepts in a HD quality and colorful views.
- Demo and application videos from internet can be shown with effective audio effects.
- We provide WIFI facility for the students for effective browsing anywhere inside the campus.

34. Participation in Institutional Social Responsibility (ISR) and Extension Activities :

Institutional Social Responsibility (ISR) :

- Blood Donation Camp

- Fresher's Day

- Independence Day Celebration

- General Orientation Program

- Teacher's day 5th September

- Tree Plantation

- NSS Day Celebration

- National Water Day

- National Education Day

- World HIV Day

- Republic Day Celebration

- Tree Plantation

35. SWOC analysis of the department and future plans:

Strength:

- Qualified and committed faculty. Some of the Staff Members are having field experience; hence they can share their industrial experience with the students.

- Student faculty ratio is maintained.

- Systematic monitoring of teaching-learning.

- Department frequently arranges guest lectures, industrial visits to enrich the knowledge of students.

- Most of the Staff members are having Master's Degree in diversified areas of Civil Engineering.

- Well-equipped laboratories with modern equipment's.

Weakness

- Rural scenario institution and majority of students are from the rural areas and hence their communication skills are poor.

- Less number of faculty publications.

- Since Our College is far away from the city we could not over stay to continue our activities of a day.

- Tie-up with professional bodies needs to be strengthened.

- Value added programs are required to conduct

Opportunities

- Never ending Infrastructural development, so higher demand for Civil Engineering course among students.

- Revenue generation through Testing and consultancy services

- Involvement in rural development activities

- Organizational Skill development

- To tie up with local industries for placement and projects.

- Enhance research activities through sponsored R&D projects.

Challenges

- Availability and retention of qualified and experienced faculty

- Coping with rapid changing in technology and the industrial requirements to improve the employability of the students are the biggest challenge.

- The up-gradation of faculty to cope up with technology changes.

- Improving communication skill for rural background students

Future Plans

- Creating the Centre of excellence.

- To start PG Course and Research Centre.

- The Department is to be accredited by NBA.

- Planned to sign a MoU with construction companies

- Hands on training along with curriculum is been planned for the students to practice themselves with the real construction activities

- To motivate the faculty members to do funded projects

- To organize national / international level seminars / conferences / workshops in collaboration with Professional Societies.

- Department administration will be digitized to facilitate easy access

- By the faculty using Information and Communication Technology.

- To start-up consultancy activities for government departments and leading industries

- Any other:

Collaboration/Linkages: **NIL**

Resource person (Chair the session/Invited Talk/Guest Lecture):

Resource person	Chair the session	Topic
Mrs. B S Shete	MS. J D Wadekar	Wastewater treatment

Life Member of various association/NGO/Society:

LMISTE

Name of Faculty	Membership In Professional Body
Mrs B S Shete	LMISTE- 89168

Convener of college committee with name of committee:

Name of Convener	Name of committee
Mrs B S Shete HOD Department of Civil Engineering	IQAC cell, Women's redressal committee, Hostel Committee, Tree Plantation committee, Domain Specific Technical Training- Testing
Prof H K Lonpande	Training & Placement committee
Prof M M Inamdar	Hostel Committee

Awards/Recognitions received by students:

R.N.	Name of student	Event Name	Position	Place	Name of Project

1	Mr. Devendra Kothwar, Payal Mukholkar and team	Prayukti-17 Project	First	DR. Sau. KGIET Darapur	Water Shed Management
2	Miss.Aashna Firdous, Miss.Payal Mukholkar	Prayukti-17 Paper presentation	First	DR. Sau. KGIET Darapur	Sonication (Paper)
3	Mr.Kushal Sangrame, Miss.Akansha Pande	Prayukti-17	Second	DR. Sau. KGIET Darapur	Flyover Bridges(Paper)

Information Technology

1. **Name of the department** : Information Technology

2. **Year of Establishment** : 2008

3. **Names of Programs/Courses offered**:

Sr. No	Name of the programme	Year of Establishment
1	UG- BE (Information Technology)	2008
2	PG –ME (Information Technology)	Not Applicable
3	Ph.D.	Not Applicable

4. **Names of Inter disciplinary courses and the departments/units involved:**

Sr. No	Name of the Inter disciplinary Courses	Departments/Units Involved
1	UG- BE Information Technology	1
2	PG –ME Information Technology	Not Applicable

5. **Annual/semester/choice based credit system (programme wise):**

Sr. No	Name of the programme	Pattern/System(Annual/semester/choice based credit system)
1	UG- BE Information Technology	Semester
2	PG –ME Information Technology	Not Applicable
3	Ph.D.	Not Applicable

6. **Participation of the department in the courses offered by other departments**:

Sr. No	Name of the Department	Class	Courses offered
1	Applied Science & Humanities	First Year	Computer Programming
2	Information Technology	Third Year	Data Communication & Networking (Free Elective)
3	Information Technology	Third Year	Software Project Management (Free Elective)
3	PG (Specialization)	Nil	Nil
4	PhD -Course work	Nil	Nil

7. **Courses in collaboration with other universities, industries, foreign institutions:**

    Nil

8. **Details of courses/programs discontinued (if any) with reasons**:

    Yeas, Information Technology branch was started by institution in year 2008 but close in year 2016 due less number admissions

9. **Number of teaching posts**

Designation	Sanctioned	Filled
Professors	1	Nil
Associate Professors	4	Nil
Asst. Professors	12	04
Visiting/guest faculty	-	02

10. Faculty profile with name, qualification, designation, specialization, D.Sc./D.Litt./ Ph.D./M.Phil. etc.,)

Sr	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for last 4
1	Prof. T. N. Ghorsad	M.Tech	Incharge HOD	Information Technology	6 Years	-Nil
2	Prof. S.M.Wange	M.E.	Asst. Professor	Information Technology	8 Years	-Nil
3	Prof. S.S. Shirbhate	M.E.	Asst. Professor	Information Technology	6 Years	-Nil
4	Prof. S. J. Dhobale	M.E. Appeared	Asst. Professor	Information Technology	1 Years	-Nil
5	Prof. M. R. Borkar	M.E Appeared	Asst. Professor	Information Technology	1Years	-Nil
6	Prof. R.J.Watane	B.E	Asst. Professor	Information Technology	1 Years	-Nil
7	Prof. M.D. Shirpurkar	M.E	Asst. Professor	Information Technology	1 Years	-Nil

11.   List of senior visiting faculty   : Nil

12.   Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty   : 2.88%

13.   Student-Teacher Ratio (programme wise) :

Sr. No	Programme	Student-Teacher Ratio
1	UG	15:1
2	PG	Nil

14. **Number of academic support staff (technical) and administrative staff; sanctioned and filled**

Staff details	Sanctioned	Filled
Academic Support Staff	6	2

15. **Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG.:**

Ph.D.	Ph.D. Pursuing	PG	UG
Nil	Nil	3	3

16. **Number of faculty with ongoing projects from National and International funding agencies and grants received**
    a)National   : Nil
    b)International   : Nil

17. **Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received**

    Nil

18. **Research Centre/facility recognized by the University**   : Nil

19. **Publications**:

 a) Publication per faculty   :

Parameters	Number
Number of papers published in peer reviewed journals(National/International)by faculty and students	92
Number of publications listed in International Database(For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database-International Social Sciences Directory, EBSCO host, etc.)	01
Monographs	Nil
Chapter in Books	Nil
Books Edited	Nil
Books with ISBN/ISSN numbers with details of publishers	Nil
Citation Index	191
SNIP	01
SJR	01
Impact factor	5
h-index	13

20. Areas of consultancy and income generated   :

Department of computer science (Web development lab) developed DGCT website and other ERP Software's. In terms of that department earns 2 lakhs .

21. Faculty as members in

a)   National committees   : Nil

b)   International Committees   **:** Nil

c)   Editorial Boards   : Nil

d. Any other committee:

22. Student projects

a)Percentage of students who have one in-house projects including interdepartmental/programme : **100**

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies

Programme	Academic Year	Percentage of in-house projects	Percentage of sponsored projects
UG	2014-15	100	0
	2014-15	100	0
	2013-14	100	0
	2012-13	100	0
	2011-12	100	0
PG	2016-17	Nil	0
	2015-16	Nil	0
	2014-15	Nil	0

23. Awards/Recognitions received by faculty and students:

Total Number of students awards	Total Number of Faculty awards
24	1

24. List of eminent academicians and scientists/visitors to the department:

Sr. No	Name of eminent academicians, scientists, visitors	Association/Affiliation	Purpose of visit/Topic Covered
1	Ankur R. Patil	Pune University	Guest Lecture
2	Sushil Kumar Jain & Santosh Pushlekar	Jain Finance	Financial Awareness
3	Vishesh Agrawal	Amravati	GATE Awareness
4	Gurmit Singh Mehtab	Studio Blacksmith, India	Communication Enhancement & Personality Development
5	Subodh Deshmukh	Amravati	Personality Development
6	Mr.Qureshi	Akola	Data warehousing & Data Mining
7	Pushkar Sathe	Informossys, Pune	Ethical Hacking Workshop
8	Snehal Ganeshpure , Gaurav Astikar	Pune	Android Workshop
9	Dr.R.N.Khobragade	SGBAU	Projects Exhibition
10	Prof. G.D. Dalvi	PRPCE,Amravati	NCERT

25. Seminars/Conferences/Workshops organized & the source of funding

a) National   :08

b) International : Nil

Year	Sr. No	Name of FDP / SDP / STTP / Workshop / Webinar etc.	National/ International /In-house	Sponsoring / Funding Agency if any	Revenue generated
2015-16	1	Android Application Development	National	Self-Sponsored	-
2014-15	2	Personality Development	In-house	Self-Sponsored	-
	3	Data warehousing & Data Mining	In-house	Self-Sponsored	-
	4	Hack Secured Championship	National	Self-Sponsored	-
2013-14	5	Communication Enhancement & Personality Development	In-house	Self-Sponsored	-
	6	GATE Awareness	In-house	Self-Sponsored	-
	7	Financial Awareness	In-house	Self-Sponsored	-
2011-12	8	Personality Development	In-house	Self-Sponsored	-

26. Student profile programme/course wise:

Name of the Course/program		Applications received	Selected	Enrolled		Pass percentage
Course	Year			*M	*F	
UG	2016-17	Admission process in the state is only through CAP and governed by Director of Technical Education (DTE),	0	0	0	Since the college wise application received is with DTE,
	2015-16		0	0	0	
	2014-15		0	0	0	
	2013-14		2	1	1	

	2012-13	Government of Maharashtra. The Institute follows the rules, regulation & guidelines set by SGBAU Amravati, State Government body. Education (DTE), Government of Maharashtra.	3	2	1	pass percentage is not available with the institute.
	2011-12		3	1	2	
PG	2016-17		Nil	Nil	Nil	
	2015-16		Nil	Nil	Nil	
	2014-15		Nil	Nil	Nil	

*M=Male *F=Female

27. Diversity of Students

Name of the Course/ programme		%of students from the same state	% of students from other States	%of students from abroad
Course	Year			
UG	2016-17	100	0	0
	2015-16	100	0	0
	2014-15	100	0	0
	2013-14	100	0	0
	2012-13	100	0	0
	2011-12	100	0	0
PG	2016-17	Nil	0	0
	2015-16	Nil	0	0
	2014-15	Nil	0	0

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Competitive Examinations/Academic	No of Students					
	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17
GATE	0	0	0	0	0	0
GRE/TOEFL	0	0	0	0	0	0
GMAT/CMAT	0	0	0	0	0	0
NET/SET	0	0	0	0	0	0
Civil services	0	0	0	0	0	0
Defense	0	0	0	0	0	0
Others	0	0	0	0	0	0

29. Student progression

Student	Against % Enrolled					
	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17
UG to PG	23.68	16	27.27	22.22	00	Nil
PG to M.Phil.	Nil	Nil	Nil	Nil	Nil	Nil
PG to Ph.D.	Nil	Nil	Nil	Nil	Nil	Nil
Ph.D. to Post-	Nil	Nil	Nil	Nil	Nil	Nil
Employed • Campus selection	03 15	1 6	0 7	1 2	0 0	0 0
Entrepreneurship/Self-employment	0	0	0	0	0	0

30. Details of infrastructural facilities

a) Library

Sr. No	Particulars	Number
1	Titles	364
2	Volumes	1460

- *Department library*
  - Titles available: 363
  - Previous years project reports and seminar reports are available to the students for reference.

- Students and staff can issue books from central library.
- E-resources of syllabus, question bank and previous question papers are available at central library.

b) Internet facilities for Staff & Students

- Staff cabins are fully furnished and equipped with computers ,Internet connections, Laser Printer.
- All staff rooms and department office have intercom facility.
- Wi-Fi facility is available in the building, labs and classrooms.
- Power back-up is also provided in all labs for smooth conduction of practical and classes.

c) Class rooms with ICT facility

- 3-class rooms for lectures (core/electives), seminars, and tutorials with Wi-Fi internet connections are available.
- 1- Seminar Halls with a fore mentioned facilities, with a capacity of 250 .

d) Laboratories

Sr. No	Name of Lab	Major Equipments in the department
1	UML Lab	Dual core 2.7
2	Matlab	Dual core 2.7
	Total	*44*

31. Number of students receiving financial assistance from college, University, Ggovernment or other agencies

Year	No of students			
	College	University	Government	Other agencies
2016-17	0	0	0	0
2015-16	0	0	0	0
2014-15	0	0	12	0
2013-14	0	0	16	0
2012-13	0	0	48	0
2011-12	0	0	102	0

32. Details on student enrichment programs (Special Lectures/workshops/Seminar) with external experts

Year	Sr. No	Name of Enrichment programs	Name of external Expert	Organization
2015-16	1	Android Application Development Workshop	Snehal Ganeshpure , Gaurav Astikar	Krix Solution
2014-15	2	Personality Development	Subodh Deshmukh	-
	3	Data warehousing & Data Mining	Mr.Qureshi	-
	4	Hack Secured Championship	Pushkar Sathe	Informossys, Pune
2013-14	5	Communication Enhancement & Personality Development	Gurmit Singh Mehtab	Studio Blacksmith, India
	6	GATE Awareness	Vishesh Agrawal	-
	7	Financial Awareness	Sushil Kumar Jain & Santosh Pushlekar	Jain Finance
2012-13	8	Microsoft Window - 8 Workshop	SGBAU	SGBAU, Amravati
2011-12	8	Personality Development	Akur Patil	-

- STP I, II, III, IV information to be added here with respect to your department.

STP-I	**S.E. Semester –I** • Modules: SWOT Analysis, Behavioral Scheme, Report Writing, Resume Writing, Public Speaking, Career Goal Settings etc. • Trainers were Gurmit Singh Mehtab. • Few Faculties from the department also trained and conducted the Sessions • Group discussion conducted. • One Seminar on soft skill development was conducted under STP-I by Subodh Deshmukh • Parent meet were conducted to aware student issue in college premises.
STP-II	**S.E.- Semester –II** • Modules: Reading , Writing, Listening and Speaking • Sessions of one Hrs. per module conducted by our faculties • TWO OAT (Online Aptitude Test) online Tests conducted for all S.E. students, OAT test marks are recorded with Department coordinator
STP-III	**T.E.- Semester-I** • Few subjects selected at department level by conducting central meeting • Then expert team for every subject is decided. After various reviews on the contents of every subject PPTs were prepared. • TWO OAT (Online Aptitude Test)online Tests conducted for all T.E. students, OAT test marks are recorded with Department coordinator

STP-IV	**T.E. Semester-II**
	• Keeping in mind about research portion in academic this session is started
	• OAT (Online Aptitude Test) online Tests conducted for all T.E. students, OAT test marks are recorded with Department coordinator.
	• Financial awareness seminar was conducted by my Sushil Kumar Jain & Mr. Santosh Pusale on date of 21 sept 2013. Faculties from different departments were participated.
STP-V	**Final Year- Semester-I**
	• OAT (Online Aptitude Test) online Tests conducted for all T.E. students, OAT test marks are recorded with Department coordinator.
	• GATE Awareness campaign was arrange by my **Vishesh Agrawal** on date of 14- 10-2013 to create awareness for higher education.
	• Personality development- Trainer(Mr. Subodh Deshmukh) Total Students:50
	• Sessions conducted during 24 August to 26 August 2015 in Parallel
STP-VI	**Final Year- Semester-II**
	• OAT (Online Aptitude Test) online Tests conducted for all T.E. students, OAT test marks are recorded with Department coordinator.
	• Hack Secured championship : Trainer - Mr.Pushkar Sathe on date - 27-28 Feb 2015
	• Data warehousing & Data mining- Trainer (Mr.Qureshi) Total Students:48 on Date - 15 Jan 2015.

33. Teaching methods adopted to improve student learning

- Mini project work and assignments for specific subjects
- Educational visits to the IT industries and guest lecturers from experts.
- Brainstorming sessions for electives offered for BE students.
- Mock practical, preliminary exams and written assignments are given to

students for practice; before final examinations.

- Group assignment.
- Animation, Video to explain academic subjects.
- Animation and Video to explain basic working of Internet in CN

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

- Social activities under National service Scheme(NSS) which students takes part for various activities such as Computer Literacy, Gram Swacch Abhiyan, Cashless India, ,career counseling, blood donation, General awareness, books and bags donation.
- Various social activities like orphanage visit, plantation, Inspirational lectures, 7-days residential camp etc. are conducted under NSS club.

35. SWOC analysis of the department and Future plans

Strengths

- Demand for the course in market
- Every year attracting very good input quality of students across the India
- Conducive working and Learning leading to faculty and staff retention
- Well qualified, experienced and dedicated faculty members.
- Emphasis on holistic development of students
- Good placement record
- Excellent Infrastructure Facility
- Well-equipped classrooms and laboratories

Weaknesses

- Industry Institution Interaction needs to be strengthened further
- Faculties with industrial experience are less in number
- Market demand changes frequently; but Syllabus Changed after Five Years
- Lack of funded projects

Opportunities

- Fund raising through consultancy and project work
- Starting Ph.D research Center is in pipelining
- Industry oriented training
- Situated in Darapur, where an opportunity for rural devotement in education sector.

- Enhancing number of students opting for entrepreneurship

Challenges

- Coping with rapid changing IT Industry and its requirements to improve the employability of the students
- Exposing the teaching faculty to the Industrial scenario and get them trained in an Industry

Future Plans

- To establish Research Centre in Mechanical Engineering for Ph.D. course
- To improve focus on research-based education
- To enhance Industry Institute Interaction

Applied Science and Humanities

1. **Name of the department :** Applied Science and Humanities

2. **Year of Establishment   :** 2008

3. **Names of Programmer / courses offered**:

Courses	UG
Year of Establishment	2008

4. **Names of Interdisciplinary courses and the departments/units involved :**
   - Course Name : Bachelor of Engineering

5. **Annual/semester/choice based credit system (programme wise) :**

Courses	Pattern
UG	Semester

6. **Participation of the department in the courses offered by other departments :**

Courses offered by other departments	Number of Faculty engaged
Engineering Drawing	02
Engineering Mechanics	02
Workshop-I & II	02
Electrical Engineering	02
Computer Programming	02

7. **Courses in collaboration with other universities, industries, foreign institutions, etc. :**
   Nil

8. **Details of courses/programs discontinued (if any) with reasons:**
   Nil

9. Number of teaching posts :

Posts	Sanctioned	Filled
Professors	01	-
Associate Professors	02	-
Assistant Professors	13	16

10. Faculty profile with name, qualification, designation, specialization, (M.E., M. TECH., M.Sc. D.Sc./D.Litt./Ph.D./M.Phil.etc.,) :

Name of the Faculty	Qualification	Designation	Specialization	No. of year of experience	No. of Ph.D./students guided (awarded)	
Dr. S. S. Dabhane	M.Sc., M.Phil, B.Ed.Ph D	Assistant professor	Mathematics	07		
Ms. M. Kathiwale	M.Sc.	Assistant professor	Mathematics	02		
Ms.N.G.Chavan	M.Sc.	Assistant professor	Mathematics	04		
Ms. S. B. Baratiya	M.Sc.	Assistant professor	Mathematics	02		
Dr. R. N. Bhagat	M.Sc, B. Ed. Ph D	Assistant professor	Physics	06		
Dr. S. G. Vidhale	M.Sc., B.Ed.Ph D	Assistant professor	Physics	08		
Ms.V.R.Kadu	M.Sc,	Assistant professor	Physics	02		
Mr.N.S.Ghotkar	M.Sc. M.Phil. B,Ed	Assistant professor	Chemistry	12		
Mr.S.S.Bangade	M.Sc. B.Ed	Assistant professor	Chemistry	05		
Mr.A.P.Korde	M.Sc.	Assistant professor	Chemistry	02		
Ms.M.A.Jane	M.Sc.	Assistant professor	Environmental	02		
Ms.S.T.Nimsadkar	M.Sc.	Assistant professor	Indus and chem	02		
Mr.A.P.Sagne	M.Sc.	Assistant	Chemistry	02		

		professor				
Mr.S.V.Shinde	M.A. B.Ed	Assistant professor	English	09		
Mr. S.B.Yawale	M.A.,MP.Ed, M.Phil	Assistant professor	Physical education	12		
Dr. P. M. Pete	M.Lib, M.Phil., Ph.D	Assistant professor	Library and Information Science	09		

- No. of temporary faculty (Fix-pay/CHB): NIL

11. List of senior visiting faculty: Nil

12. Percentage of lectures delivered and practical Classes handled (programme wise) by temporary faculty : Nil

13. Student-Teacher Ratio (programme wise):

Sr. No	Programme	Student-Teacher Ratio
1	UG	15:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Staff Details	Sanctioned	Filled
Administrative Staff	-	-
Support Staff	06	03

15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D./ M. Phil/ PG

Qualifications	Ph.D.	M.E./ M.Tech	M.Sc. (NET/SET)	M.Sc. / M.A.
Number of permanent faculty	04	-	-	13
Number of Temporary faculty	-	-	-	-

16. Publications:

a) Publication per faculty/student

Parameters	Numbe
Number of papers published in peer reviewed journals(National/International)by faculty and students	46
Number of publications listed in International Database(For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database-International Social Sciences Directory, EBSCO host, etc.)	01
Monographs	Nil
Chapter in Books	Nil
Books Edited	Nil
Books with ISBN/ISSN numbers with details of publishers	Nil
Citation Index	Nil
SNIP	Nil
SJR	Nil
Impact factor	Nil
h-index	Nil

17. Faculty as members in

a)National committees b)International Committees c) Editorial Boards

Name of Faculty	Editorial Boards	University Committees (BOS/MC/Senate/LEC/etc.)	Any other Committee
Mr. N. S. Ghotkar	ISTE	-	-

18. Students Academic Achievements:

Ph.D	Research Fellowship with Amount	Best paper/poster presentation award	Seminar/Quiz/Aptitude/Test/Competition, etc.	University	Academic Merit PG	Award from Uni./Society/College/NGO
			06	06		

19. List of eminent academicians and scientists/ visitors to the department:

Sr. No	Name of eminent academicians, scientists, visitors	Association/Affiliation	Purpose of visit/Topic Covered
1	Dr. A.V. Kadu	Amravati University	Students will learn nanotechnology safety issues, developing skill sets to assess & determine appropriate actions to maintain a safe working
2	Dr. Avinash Sawaji	Social Association	Students get to see the insight and perspective of the guest speaker's particular field
3	Mr. Shivaji Kuche	Amravati University	To integrate the new provides the necessary information to students.

20. Seminar / conferences/ Workshops organized and the source of funding

Events	Year	Level	Source of funding
Invited Talk	2016	UG	Self

21.Diversity of students :

Name of the course	% of students from same state	% of students from other state	% of students from abroad
UG	98	02	-

22. Details of Infrastructural facilities:

Sr.No.	Infrastructural facilities	Status	Nos.
1	Library (departmental)	Books: Journal:	230 02
2	Internet facilities for staff and students	No. of computer: No. of computer with internet:	40 20
3	Classroom with ICT facilities	No. of class room with capacity: No. of LCD: No. of OHP: No. of scanner: No. of printer: No. of software with cost:	04 01 01 01 01
4	Laboratories with capacity	No. of Lab: No. of research Lab:	05
5	Other	Staff room: Store: HOD & Coordinator cabin:	 01

23. Number of students receiving financial assistance from college, university, government or other agencies: Free-ships, scholarships, minority.

(Free-ships, scholarships, Prizes, Financial assistance for UG/PG needy students)

24. Details on students enrichment programmers (special lectures/workshops/ seminar/ educational tour/ industrial visit/ etc.) with external experts:

Special lectures for student's enrichment programme:

Programme	Purpose
Induction Program-2016	To integrate the new provides the necessary information to students.
Parents Meet-2016	To make a lasting bond with the parent to increase the likehood acedemic success for their child
Communication Skill Development Prog. By Mr. Shivaji Kuche	To integrate the new provides the necessary information to students.
Induction Program-2015	To integrate the new provides the necessary information to students.
Parents Meet-2015	To make a lasting bond with the parent to increase the likehood acedemic success for their child
Induction Program-2014	To integrate the new provides the necessary information to students.
Parents Meet-2014	To make a lasting bond with the parent to increase the likehood acedemic success for their child
Guest Lecture By Dr. Avinash Sawaji	Students get to see the insight and perspective of the guest speaker's particular field
Induction Program-2013	To integrate the new provides the necessary information to students.
Parents Meet-2013	To make a lasting bond with the parent to increase the like hood academic success for their child
Engineer's Day:- Guest Shri. Kiran Hatgaonkar	To make a difference in the world in the engineer career
Induction Program-2012	To integrate the new provides the necessary information to students.
Parents Meet-2012	To make a lasting bond with the parent to increase the like hood academic success for their child
Guest Lecture By Dr. A.V. Kadu (Topic-Nanotechnology)	Students will learn nanotechnology safety issues, developing skill sets to assess & determine appropriate actions to maintain a safe working environment.
Induction Program-2011	To integrate the new provides the necessary information to students.

Workshop organized for students enrichment programme:

Programme	S.E. Semester –I
	• Modules: Communication Skill, Public Speaking, Career Goal Settings etc. • Few Faculties from the department also trained and conducted the Sessions • Group discussion conducted. • One Seminar on soft skill development by Mr. S.V.Shinde • Parent meet were conducted to aware student issue in college premises.
Programme	S.E.- Semester –II • Modules: Reading, Writing, Listening and Speaking • Guest lecture by Dr.V. S. Sangawar on nanotechnology • Aptitude Test conducted for FY students

Seminar organized for FY student's enrichment programme faculty coordinator.

25. Teaching methods adopted to improve student learning:

- Mental ability (Brainstorming sessions) for electives offered for BE students.
- Mock practical, preliminary exams and written assignments are given to students for practice; before final examinations.
- Group discussion
- Animation, Video to explain academic subjects.
- Animation and Video to explain basic working of Internet.

26. Participation in Institutional Social Responsibility (ISR) and Extension Activities :

- Social activities under National service Scheme(NSS) which students takes part for various activities such as Computer Literacy, Gram Swachh Abhiyan, Cashless India, ,career counseling, blood donation, General awareness, books and bags donation.
- Various social activities like orphanage visit, plantation, Inspirational lectures, 7-days residential camp etc. are conducted under NSS club.

27. SWOC analysis of the department and future plans:

Strengths

- Well qualified, experienced and dedicated faculty members.
- Every year attracting very good input quality of students across the India
- Conducive working and Learning leading to faculty and staff retention
- Emphasis on holistic development of students
- Excellent Infrastructure Facility
- Well-equipped classrooms and laboratories

Weaknesses

- Faculties with industrial experience are less in number
- Market demand changes frequently; but Syllabus Changed after Five Years
- Lack of funded projects

Opportunities

- Fund raising through consultancy and project work
- Industry oriented training
- Situated in Darapur, where an opportunity for rural devotement in education sector.
- Enhancing number of students opting for entrepreneurship

Life Member of various association / NGO / Society: 01(ISTE)

Ref. KGIET/ 2016-17/2629

Date 30.03.2017

DECLARATION BY THE HEAD OF THE INSTITUTION

I certify that the data included in this Self-Study Report (SSR) are true to the best of my knowledge. This SSR is prepared by the institution after internal discussions and no part has been outsourced.

I am aware that the peer team will validate the information provided in this SSR during the peer team visit.

Place: Darapur -444814

Signature of the Head of the Institution

PRINCIPAL
Dr. Sau. K. G. I. E. T.
DARAPUR.
Tq. Daryapur, Dist. Amravati.

Shri Dadasaheb Gawai Charitable Trust, Amravati.

DR. SAU. KAMALTAI GAWAI
INSTITUTE OF ENGINEERING AND
TECHNOLOGY, DARAPUR
Daryapur Taluka, District Amravati - 444814

■ Ph. 7720032432, 7507473232, ■ Email : principal.kgiet@gmail.com, ■ website : www.kgiet.ac.in

Ref. KGIET/ 2016-17/2628   Date 30.03.2017

CERTIFICATE OF COMPLIANCE

(Affiliated/Constituent/Autonomous Colleges and Recognized Institutions)

This is to certify that, **Dr. Sau. Kamaltai Gawai Institute of Engineering and Technology, Darapur, M.S.** fulfils all norms

1. Stipulated by the affiliating University and/or
2. Regulatory Council/Body [such as UGC, NCTE, AICTE, MCI, DCI, BCI, etc.] and
3. The affiliation and recognition [if applicable] is valid as on date.

In case the affiliation / recognition is conditional, then a detailed enclosure with regard to compliance of conditions by the institution will be sent.

It is noted that NAAC's accreditation, if granted, shall stand cancelled automatically, once the institution loses its University affiliation or Recognition by the Regulatory Council, as the case may be.

In case the undertaking submitted by the institution is found to be false then the accreditation given by NAAC is liable to be withdrawn. It is also agreeable that the undertaking given to NAAC will be displayed on the college website.

Date: 30.03.2017
Place: Darapur -444814, M.S.

Principal/Head of the Institution
(Dr. Sanjay M. Kherde)
PRINCIPAL
Dr. Sau. K. G. I. E. T.
DARAPUR.
Tq. Daryapur. Dist. Amravati.

ANNEXURE –I
AICTE First Approval Letter to the Institute

अखिल भारतीय तकनीकी शिक्षा परिषद्
ALL INDIA COUNCIL FOR TECHNICAL EDUCATION
(भारत सरकार का सांविधिक निकाय) (A statutory body of the Govt. of India)

F.No. 06/07/MS/Engg./2008/01
March 24, 2008

To,

The Principal Secretary,
Higher & Technical Education and Employment Development,
Govt. of Maharashtra, Mantralaya,
Mumbai – 400 032

Sub: AICTE approval to Shri Dadasaheb Gawai Charitable Trust, Amravati, 44, "Kamalpushpa", Congress Nagar, Amravati, (M.S.), Pin : 444 606. for establishment of Dr. Sau Kamaltai Gawai Institute of Engineering & Technology, Darapur, At. Post. Darapur, Tq. Daryapur, Distt: Amrawati - 444 814 (M.S.)

Sir,

As per the Regulations notified by the Council vide F. No. 37-3/Legal/2004 dated 14TH September 2006 and norms, standards, procedures and conditions prescribed by the Council from time to time and based on the recommendations of the Expert Committee and EC Sub Committee, I am directed to convey the approval of the Council to Shri Dadasaheb Gawai Charitable Trust, Amravati, 44, "Kamalpushpa", Congress Nagar, Amravati, (M.S.), Pin : 444 606. for establishment of Dr. Sau Kamaltai Gawai Institute of Engineering & Technology, Darapur, At. Post. Darapur, Tq. Daryapur, Distt: Amrawati - 444 814 (M.S.) for conduct of the following courses and intake.

S.No.	Name of the Course	Intake
1.	Computer Science & Engineering	60
2.	Electronics & Telecommunication Engineering	60
3.	Mechanical Engineering	60
4.	Information Technology	60
	Total	240

The approval is valid for two years from the date of issue of this letter. The Society/Trust/Institution shall obtain necessary affiliation/ permission from the concerned affiliating University, as per the prescribed schedule of the University/ Admission Authority etc. The Applicant Society/Trust/Institution shall send information about commencement of the above courses to AICTE. Incase the Institution could not commence the above mentioned courses for whatsoever reasons during the two years period from the date of issue of this letter, the approval becomes invalid and the applicant Society/trust shall have to make fresh application to AICTE for grant of fresh approval.

The approval is further subject to fulfillment of following conditions.

That the management shall provide adequate funds for development of land and building and for providing related infrastructural, instructional and other facilities as per Council's norms and standards laid down by the Council from time to time and for meeting recurring expenditure.

(a) That the admissions shall be made only after adequate infrastructure and all other facilities are provided as per norms and guidelines of the AICTE.

(b) That the admissions shall be made in accordance with the regulations notified by the Council from time to time.

7 वाँ तल, चन्द्रलोक भवन, जनपथ, नई दिल्ली –110001
7th Floor, Chander Lok Building, Janpath, New Delhi-110001
Phone : 011-23724151-57 Fax : 011-23724183 Website : www.aicte.ernet.in

Dr. Sau. Kamaltai Gawai Institute of Engineering and Technology, Darapur

ANNEXURE –II
University Affiliation Letter to the Institute

SANT GADGE BABA
AMRAVATI UNIVERSITY
AMRAVATI - 444602
(M.S.)

℃ : 2662206, 2662207, 2662208, 2662249, 2662358.
website : www.sgbau.ac.in

FAX NO. 0721-2660949, 2662135

No.SGBAU/8/C-689 /2017.

Dt:30 -03- 2017

TO WHOM IT MAY CONCERN

This is to certify that **Dr. Sau. Kamaltai Gawai Institute of Engineering and Technology, Darapur, Dist. Amravati, Maharashtra** is affiliated to the **Sant Gadge Baba Amravati University, Amravati** since 2008 and recognized by the All India Council for Technical Education, New Delhi and the following Courses/Subjects are taught in the said college as per approval.

Sr No	Name of the Courses	Duration	Affiliation	Period of Validity for the year(s)
1.	B.E. Computer Science and Engineering	4 Years	Temporary	2016-17
2.	B.E. Information Technology	4 Years	Temporary	2016-17
3.	B.E. Electronics and Telecommunications Engineering	4 Years	Temporary	2016-17
4.	B.E. Mechanical Engineering	4 Years	Temporary	2016-17
5.	B.E. Electrical Engineering	4 Years	Temporary	2016-17
6.	B.E. Civil Engineering	4 Years	Temporary	2016-17
7.	M.E. Mechanical (CAD/CAM)	2 Years	Temporary	2016-17
8.	M.E. Computer Science and Engineering	2 Years	Temporary	2016-17
9.	M.E. Electrical Power System	2 Years	Temporary	2016-17

Asstt. Registrar (Colle.),
Sant Gadge Baba
Amravati University.

ANNEXURE –III
University Notification for Extension of Approval of the Institute

SANT GADGE BABA AMRAVATI UNIVERSITY GAZETTE
Official Publication of Sant Gadge Baba Amravati University

PART - TWO

गुरूवार दिनांक, १९ मे, २०१६

अधिसूचना

क्रमांक : २३/२०१६   दिनांक : १९-०५-२०१६

विषय : संलग्निकरणाबाबत..

सर्व संबंधीतांचे माहीतीकरीता अधिसूचित करण्यात येते की, खाली दर्शविलेल्या महाविद्यालयांकरीता, अभ्यासक्रम / विषय / अतिरीक्त तुकडी च्या संलग्निकरण वाढीसंदर्भात नियुक्त करण्यात आलेल्या चौकशी समित्यांचे अहवाल विद्वत परिषदेच्या पक्षात म.वि.कायदा १९९४ कलम १४(७) अंतर्गत मा.कुलगुरुंनी स्विकृत केल्यानुसार स्तंभ क्र.२ मध्ये दर्शविलेल्या महाविद्यालयास, स्तंभ क्र.३ मध्ये दर्शविलेल्या अभ्यासक्रम / विषय / अतिरीक्त तुकडीस, स्तंभ क्र.४ मध्ये दर्शविलेल्या कालावधीकरीता म.वि.कायदा १९९४ मधील कलम ८३, ८६ व ८७ मध्ये दर्शविलेल्या तरतुदींचे तसेच B.E, M.C.A., M.B.A., M.E., B.Pharm., M.Pharm., या अभ्यासक्रमास संबंधीत शिखर संस्थांच्या (Apex Body) मान्यतेचे अधिन राहुन संलग्निकरण प्रदान करण्यात येत आहे.

TABLE

Sr. No.	Name of the College	Subject(s) / Course(s)/ Add. Section(s)	Period of continuation of affiliation
1.	2.	3.	4.
1.	Degree College of Physical Education, Amravati. (111)	M.C.A- (II Shift)	For the session 2016-2017
2.	Prof.Ram Meghe Institute of Technology & Research,Badnera Rly. (131)	B.E. (Direct IInd year) (Civil Engg.) B.E. (IInd shift) (Elect. & Tele. Engg.) B.E. (Information Tech.) (90 to 120) M.E. (P.T.) (Information Technology) B.E.-IVth (IInd Shift) (Mechanical Engg.) M.E. i) Thermal Engg., (F.T.) ii) Ele. & Tele. Engg. (F.T.) iii) Comp.Sci. & Engg. (F.T.) B.E. i) Civil Engg. (IInd shift) ii) Comp.Sci.& Engg. (IIndshift) M.B.A.	For the session 2016-2017

SANT GADGE BABA AMRAVATI UNIVERSITY GAZETTE - 2016 - PART TWO -34

Dr. Sau. Kamaltai Gawai Institute of Engineering and Technology, Darapur

SANT GADGE BABA AMRAVATI UNIVERSITY GAZETTE - 2016 - PART TWO -35

3.	Sipna College of Engineering & Technology,Sipna Campus Nemani Godawan,Badnera Road,Amravati. (168)	M.E. 1.Comp.Sci. & Engg., 2.Information Tech., 3.Digital Electronics, 4.Comp.Engg., B. E. 1.Civil Engg. 2.Mechanical Engineering B.E.Direct 2nd Year (Electronics & Tele. Engg.), B.E. Direct 2nd Year (Computer Sci. & Engg.), M.E. (Electronics & Tele. Engg.) M.B.A.	For the session 2016-2017
4.	Shri HVPM's College of Engineering & Technology,Amravati. (180)	B.E. 1) Computer Science & Engineering 2) Electronics & Tele-communication 3) Information Technology 4) Mechanical Engineering B.E. 1) Computer Science & Engineering (First Shift) 2) Electronics & Tele-communication (Second Shift) M.E.(F.T.) (Second Shift) 1) Computer Science & Engg. 2) Computer Science & Information Technology 3) Electronics & Telecomm MBA	For the session 2016-2017
5.	Dr.Sau.kamaltai Gawai Institute of Engineering & Technology,Darapur, Distt:- Amravati. (198)	B.E. 1.Computer Science & Engg. 2. Information Technology 3.Electronics & Tele. Engg. 4.Mechanical Engineering 5.Electrical Engineering 6.Civil Engineering M.E. Mechanical (CAD/CAM) M.E. (Computer Science & Engg) M.E. (Electrical Power System)	For the session 2016-2017
6.	P.R.Patil College of Engineering & Technology, Gajanan Township Campus, Kathora Road, Amravati. (200)	B.E. 1.Electronics & Tele.Engg. 2.Computer Science & Engg. 3.Civil Engineering. 4.Electrical Engineering 5.Information Technology M.E. 1.Computer Scinece & Engg. 2.Electronics & Tele.Engg. M.B.A.	For the session 2016-2017

Dr. Sau. Kamaltai Gawai Institute of Engineering and Technology, Darapur

ANNEXURE –IV

AICTE Notification for Extension of Approval of the Institute

All India Council for Technical Education

(A Statutory body under Ministry of HRD, Govt. of India)

Nelson Mandela MargVasant Kunj, New Delhi-110067
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

F.No. Western/1-3323223460/2017/EOA

Date: 10-Apr-2017

To,

The Secretary,
Tech. & Higher Education Deptt.
Govt. of Maharashta, Mantralaya,
Annexe Building, Mumbai-400032

Sub: Extension of approval for the academic year 2017-18

Ref: Application of the Institution for Extension of approval for the academic year 2017-18

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2016 notified by the Council vide notification number F.No.AB/AICTE/REG/2016 dated 30/11/2016 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

Permanent Id	1-9713541	Application Id	1-3323223460
Name of the Institute	DR.SAU.KAMALTAI GAWAI INSTITUTE OF ENGINEERING & TECHNOLOGY DARAPUR	Institute Address	AT. PO. DARAPUR,TQ.DARYAPUR, DIST.AMRAVATI, STATE MAHARASHTRA - 444 814, AMRAVATI, AMRAVATI, Maharashtra, 444814
Name of the Society/Trust	SHRI DADASAHEB GAWAI CHARITABLE TRUST	Society/Trust Address	44, "KAMAL PUSHPA", CONGRESS NAGAR, AMRAVATI, MAHARASHTRA, 444605,AMRAVATI,AMRAVATI,Maharashtra,444605
Institute Type	Unaided - Private	Region	Western

Opted for change from Women to Co-ed and Vice versa	No	Opted for change of name	No	Opted for change of site	No
Change from Women to Co-ed approved and Vice versa	Not Applicable	Change of name Approved	Not Applicable	Change of site Approved	Not Applicable
Opted for Conversion from degree to diploma	No	Opted for Conversion from diploma to degree	No	Conversion (degree to diploma or vice-a-versa) Approved	Not Applicable

To conduct following courses with the intake indicated below for the academic year 2017-18

Application Id: 1-3323223460			Course	Full/Part Time	Affiliating Body	Intake Approved for 2016-17	Intake Approved for 2017-18	NRI Approval status	PIO / FN / Gulf quota/ OCI/ Approval status	Foreign Collaborarion/Twining Program Approval status
Program	Shift	Level								
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	CAD/CAM	FULL TIME	Sant Gadge Baba Amravati University, Amravati	18	18	NA	NA	NA

Application Number: 1-3323223460
Note: This is a Computer generated Report.No signature is required.

Printed By : AE6362273

Page **1** of **4**
Letter Printed On:20 April 2017

Dr. Sau. Kamaltai Gawai Institute of Engineering and Technology, Darapur

All India Council for Technical Education

(A Statutory body under Ministry of HRD, Govt. of India)

Nelson Mandela MargVasant Kunj, New Delhi-110067
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

ENGINEERIN G AND TECHNOLO GY	1st Shift	POS T GRA DUA TE	COMPUTER SCIENCE & ENGINEERING	FULL TIME	Sant Gadge Baba Amravati University, Amravati	24	24	NA	NA	NA
ENGINEERIN G AND TECHNOLO GY	1st Shift	POS T GRA DUA TE	ELECTRICAL POWER SYSTEMS	FULL TIME	Sant Gadge Baba Amravati University, Amravati	24	24	NA	NA	NA
ENGINEERIN G AND TECHNOLO GY	1st Shift	UND ER GRA DUA TE	CIVIL ENGINEERING	FULL TIME	Sant Gadge Baba Amravati University, Amravati	30	60	NA	NA	NA
ENGINEERIN G AND TECHNOLO GY	1st Shift	UND ER GRA DUA TE	COMPUTER SCIENCE & ENGINEERING	FULL TIME	Sant Gadge Baba Amravati University, Amravati	60	60	NA	NA	NA
ENGINEERIN G AND TECHNOLO GY	1st Shift	UND ER GRA DUA TE	ELECTRICAL ENGINEERING	FULL TIME	Sant Gadge Baba Amravati University, Amravati	30	60	NA	NA	NA
ENGINEERIN G AND TECHNOLO GY	1st Shift	UND ER GRA DUA TE	ELECTRONICS AND TELECOMMUNI CATIONS ENGINEERING	FULL TIME	Sant Gadge Baba Amravati University, Amravati	60	60	NA	NA	NA
ENGINEERIN G AND TECHNOLO GY	1st Shift	UND ER GRA DUA TE	MECHANICAL ENGINEERING	FULL TIME	Sant Gadge Baba Amravati University, Amravati	96	120	NA	NA	NA

The above mentioned approval is subject to the condition that

DR.SAU.KAMALTAI GAWAI INSTITUTE OF ENGINEERING & TECHNOLOGY DARAPUR

shall follow and adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the institution along with the application submitted by the institution on portal.

Course(s) Applied for Closure by the Institute for the AY 2017-18:

Application Id: 1-3323223460			Name of the Course	Full/Part Time	Affiliating Body	Course Closure Status
Program	Shift	Level				
ENGINEE RING AND TECHNOL	1st Shift	UNDER GRADUAT E	INFORMATION TECHNOLOGY : (Last Approved Intake 0)	FULL TIME	Sant Gadge Baba Amravati University, Amravati	Pending§

Application Number: 1-3323223460
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Dr. Sau. Kamaltai Gawai Institute of Engineering and Technology, Darapur

All India Council for Technical Education

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PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

OGY						

$ due to non submission of NOC's from University / Board and / or State Government

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation:- Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

Note: Validity of the course details may be verified at www.aicte-india.org

Prof. A.P Mittal
Member Secretary, AICTE

Copy to:

1. **The Regional Officer,**
   All India Council for Technical Education
   Industrial Assurance Building
   2nd Floor, Nariman Road
   Mumbai - 400 020, Maharashtra

2. **The Director Of Technical Education**,
   Maharashtra

3. **The Registrar**,
   Sant Gadge Baba Amravati University, Amravati

4. **The Principal / Director,**
   DR.SAU.KAMALTAI GAWAI INSTITUTE OF ENGINEERING & TECHNOLOGY DARAPUR
   AT. PO. DARAPUR,TQ.DARYAPUR, DIST.AMRAVATI, STATE MAHARASHTRA - 444 814,
   AMRAVATI,AMRAVATI,
   Maharashtra,444814

5. **The Secretary / Chairman,**
   SHRI DADASAHEB GAWAI CHARITABLE TRUST
   44, "KAMAL PUSHPA", CONGRESS NAGAR, AMRAVATI, MAHARASHTRA, 444605,
   AMRAVATI,AMRAVATI,
   Maharashtra,444605

6. **Guard File(AICTE)**

Note: ** - Approval letter copy will not be communicated through post/email. However, provision is made in the portal for downloading Approval letter through Authorized login credentials allotted to concerned DTE/Registrar.

Application Number: 1-3323223460
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Dr. Sau. Kamaltai Gawai Institute of Engineering and Technology, Darapur

All India Council for Technical Education

(A Statutory body under Ministry of HRD, Govt. of India)

Nelson Mandela MargVasant Kunj, New Delhi-110067
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

Application Number: 1-3323223460
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Dr. Sau. Kamaltai Gawai Institute of Engineering and Technology, Darapur

ANNEXURE –V
AISHE Certificate of the Institute

Government of India
Ministry of Human Resource Development
Department of Higher Education
Statistics Division
New Delhi

Certificate

Reference No. C-43134-2016

This is to certify that Sanjay Madhukarrao Kherde of Dr.Sau.Kamaltai Gawai Institute of Engineering & Technology, Daryapur. Distt:-Amravati has successfully uploaded the data of All India Survey on Higher Education(AISHE) 2016-2017.

(B N Tiwari)
Deputy Director General

Dated: 20/04/2017

ANNEXURE –VI
Campus Plan

Dr. Sau. Kamaltai Gawai Institute of Engineering & Technology,
Darapur -444814, Taq. –Daryapur, Dist. -Amravati

LOCATION MAP

A - Main Building
  - Administrative
  - Block, Dept. of Computer Science & Engg.
  - Dept. of Electronics & Telecommunication)

B - Dept. of Science & Humanities
  - Liabrary,
  - Dept. of Elect.Engg.

C - Dept. of Mechanical Engg.

D - Dept. of Civil Engineering

E - Proposed library building

F - Workshop

G - Boys hostel

H - Cafeteria

L - Parking area

M - Indoor stadium

N - ATM Counter

I - Gents toilet

J - Four wheeler parking

K - Two wheeler parking for students

O/P - Tutorial room / Cooperative store
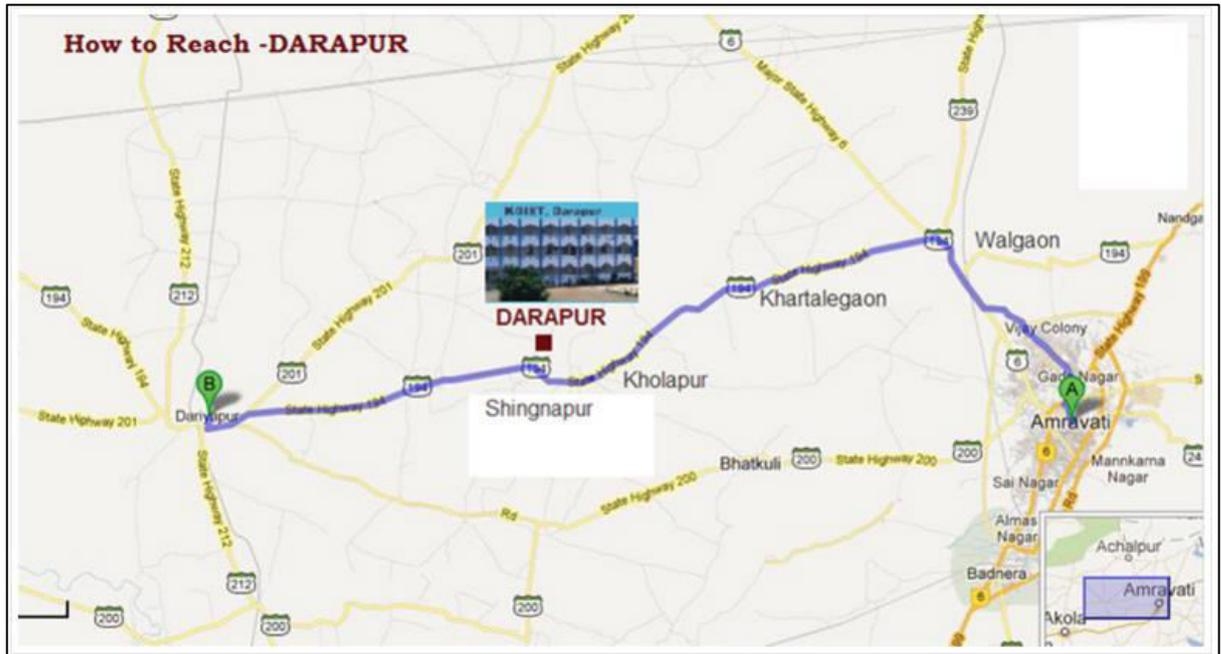
Q - Ladies toilet

R/S/T - Play-Ground

CAMPUS PLAN

ANNEXURE –VII
Institutes Location Map

HOW TO REACH INSTITUTE (DARAPUR)

Reaching to the Darapur from Amravati city of Maharashtra State, India is quite easy; since Amravati city has good air, rail as well as road links from all corners of the state. Darapur is located on Amravati–Walgaon-Daryapur-Akot State Highway No.194, about 35 kilometers from Amravati city and 20 kilometers from Daryapur town.

By Air

The nearest airport from Amravati is that of Nagpur. Nagpur has got Dr. Babasaheb Ambedkar International Airport, which is well connected with most of the key cities of India. It has regular as well as direct flights to all the metros. Since Nagpur is serviced by both public as well as private carriers, reaching here by air is no problem.

By Rail

The nearest railway station is Badnera/Amravati. Badnera falls on the Mumbai-Kolkata main line and forms the terminus of the branch line of Central Railway. The city is connected with almost all the parts of the country by regular trains. All the express trains halt at Badnera station. Badnera station is located about 12 kilometers from Amravati city.

By Road

Amravati is well connected with other towns and cities within the state as well as those in the neighboring states with a good network of roads. It is on main Mumbai to Kolkata National Highway No. NH6, and getting to Darapur is a matter of about 45 minutes road drive from Amravati city.

HOW TO REACH AMRAVATI ?

1) Air Route

Delhi - Mumbai - Aurangabad
Delhi - Nagpur
Chennai - Nagpur
Kolkata -Nagpur

2) Railway Route

Delhi-Banglore via Bhusawal
Mumbai - Nagpur via Badnera (Amravati)
Kolkata - Mumbai via Badnera (Amravati)
Chennai - Ahmedabad via Badnera (Amravati)
Kolkata - Pune via Badnera (Amravati)
Nagpur - Pune via Badnera (Amravati)

3) Road Route

Bhusawal - Amravati
Aurangabad - Amravati
Nagpur - Amravati
Pune - Amravati

Amravati is district place in Maharashtra which is exclusively known for Amba Devi Temple. Badnera(Amravati) is on Mumbai-Hawrah main line of central railway.