Shanti Education Society's

A. G. PATIL INSTITUTE OF TECHNOLOGY, SOLAPUR

Affiliated to Solapur University, Solapur Approved by AICTE New Delhi
18/2/2 A, Pratap Nagar, Opposite SRP Camp,Vijapur Road, Solapur-413008
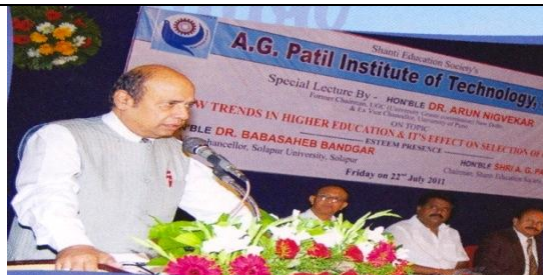
Self Study Report

APRIL 2017

Submitted to

National Assessment and Accreditation Council, (NAAC), Bangalore -560072

Milestones towards success Journey . . .

Dr. Arun Nigavekar, Former UGC Chairman 2012-13

Udyogratan Award to Hon. Chairman by Governor of Maharashtra - 2010-11

Dr. Vijay Bhatkar, Renowned Scientist 2012-13

Brigadier Dr.R.C.Pathak, Scientist and Dr. N. V. Ratnalikar, Educationist -2010

Dr. S. Gowarikar, Renowned Nuclear Scientist 2012-13

Dr. Kamla Shankar, SPIC MACAY -2013-14

Mr. Juganani, student with Hon. PM of India Shri. Narendra Modi in Germany - 2014-15

Winners of State level project Exhibition Dipex, Pune -2016-17

National conference NITET 2016-17

Mr. A. B. Pando, Student of AGPIT, Solapur University Topper - 2015-16

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PREFACE

EXECUTIVE SUMMARY

Preface

Technical education is a major empowering arm of a nation and engineers are considered as nation builders. Engineers with qualitative knowledge will bring the nation to the first place in the row of technically advanced countries. National Assessment and Accreditation Council (NAAC) has the objectives to facilitate the improvement of quality through accreditation. Shanti Education Society, Solapur is dedicated to the task of nation building on a firm foundation of quality education. However, as technical education has become the opportunity of a privileged few, greatly pained by the lack of equal opportunities for all regions of Maharashtra, Honorable Chairman of Shanti Education Society, Solapur Shri A.G.Patil embarked upon a mission to provide technical education to talented and under-privileged students of various areas of Solapur district.

Under guidance of Honorable Secretary Shri. S.A.Patil,Shanti Education Society, Solapur, with the motto 'Knowledge is Power', revolutionary ideas and ample innovativeness, to provide a World Class Education in the field of Engineering and Technology in Solapur region, established A. G. Patil Institute of Technology, Solapur, in the year 2008.

Our prime objective is to provide the right environment, knowledge, skills and values in grooming our students to become world class technologists and engineers for ever-growing industrial needs. By keeping main focus on overall development of students, A. G. Patil Institute of Technology, Solapur is bound to abide by the said commitment and is being identified by its versatile uniqueness. The thrust of our Institute is on academics, which is achieved by the faculties having in-depth subject knowledge clubbed with intelligent teaching skills supported by various teaching aids viz., audio-video clips, LCD projectors, NPTEL

Videos etc. The infrastructure of the Institution is excellent, with state-of-the-art laboratories, digital library, Wi-Fi enabled campus, well furnished hostels for boys and girls, etc. We would like to be counted as one of the best institutions in India. In view of this, it is our pleasure to submit our Self Study Report (SSR) before the NAAC, Bengaluru.

I take this opportunity to congratulate and thank the Management, the members of Steering Committee and the Internal Quality Assurance Cell (IQAC) for sharing the responsibility of drafting the SSR. I would like to express my gratitude to my team of staff members who have whole-heartedly and diligently contributed in bringing out this SSR. I also thank all administrative sections and academic departments of the Institute for providing thebest of their services to the stakeholders.

Dr. S. A. Patil

Principal

Executive Summary

Eminent Educationist and Philanthropist Honorable Shri. A.G. Patil, the founder President, established A.G. Patil Institute of Technology, Solapur under Shanti Education Society, Solapur in 2008. Hon'ble Shri A. G. Patil, Chairman of the Institute has embarked upon a mission to provide technical education to the neglected areas of Solapur district to boost the talent of employees and employers from both urban and rural. The objective of the Society is to provide KG to PG education to the aspirants from Solapur region. The Institute has a Board of Governance which includes Educationists, Social Workers, Journalists and Advocates and it is guided by an Advisory Board, consisting of eminent Educationists, Industrialists and Stalwarts from the field of engineering and technology.

The Institute is located within the Municipal Corporation limits of Solapur City with bus facility and has achieved a prominent position among the Engineering Institutes in Solapur in a very short period of time. The trustees have a definite road map and commitment to transform the Institute into a National Centre of Excellence.

The Society runs the following Institutions in Solapur:

1. A. G. Patil Institute of Technology, Solapur.
2. A. G. Patil Polytechnic Institute, Solapur
3. Shanti Industrial Training Institute, Solapur.
4. Shanti Junior College, Solapur.
5. Shanti English Medium School, Solapur.

 Vision

International Standing in Technical Education and Research, contributing towards Improvement and Empowerment of Society, Country and in turn, Mankind.

Mission

1. To develop technically sound and globally accepted professionals.
2. To enhance capability of updating with cutting edge technologies and innovative research ideas.

3. To make aware of social commitments and highest ethical values as inner strength for upliftment of mankind.

4. To needlecraft career oriented courses and interactive teaching-learning process.

Objectives

1. To develop effective teaching-learning environment in all the programs of study.

2. To organize short-term courses, National / International level Conferences, Workshops and Seminars for faculty and students on current technological developments.

3. To conduct skill enhancement programs for students.

4. To organize job oriented training programs for students to bridge the gap between professional requirements and curriculum.

5. To conduct value added programs like developing soft and professional skills for students and staff.

6. To arrange social, ethical and environmental awareness activities among staff and students.

7. To enter into Memorandum of Understanding (MoU) with R&D Institutes, Industry and University.

8. To provide Campus placement facilities to the students.

PROGRAM DETAILS

The Institute conducts the following UG and PG programs as below-

1. Civil Engineering (UG)

2. Computer Engineering (UG)

3. Electronics & Tele Communication Engineering (UG)

4. Mechanical Engineering (UG & PG)

The Institute has spacious buildings with ample scope for future development and expansion. It has good infrastructure to cater to engineering UG and PG education. The Institute interacts with industry, research bodies and university for effective implementation of the curriculum and has signed MoUs with reputed organizations like:

- IIT, Mumbai

- Reliance Jio, Mumbai

- Treezec E-Solutions Pvt.Ltd. Mumbai

- Vibrant Minds Technologies, Mumbai

- NIIT, Solapur Geometric Limited, Pune.

- Swift Infocom India Pvt.Ltd, Pune.

- Vidyalankar Educational Services, Mumbai

- Corporate Bridge Consultancy Pvt.Ltd. Mumbai Informatics Publishing Limited, Bengaluru

- Fantasy Technologies, Solapur

- TechnoWings International IT Solutions, Solapur

- Spenca Mineral Water, Solapur

- Global Talent Track Private Limited, Pune

- Imperial Institute of Excellence Pune

The Institute is recognized as the Remote Education Centre for 'National Programme on Technology Enhanced Learning (*NPTEL*)' of IIT, Mumbai and also has life-time membership of ISTE and CSI. The Institute has also applied to Solapur University for establishing Research Centre to offer Ph.D. programs in Mechanical Engineering. Teaching-learning has also been enhanced by implementing learning tool 'MOODLE', arranging workshops, seminars, and conferences on the recent developments in engineering and technology.

Job oriented Software training programs like STAAD-Pro, CATIA, MATLAB, Xilinx, Proteus, REVIT, ANSYS, Advanced JAVA programming, etc are arranged for student and staff enrichment. The Institute also sponsors its faculty for qualification improvement such as M. Phil/Ph.D.

The final year results of the students are consistently excellent and some of the students have achieved university ranks since three years. There is a consistent record of placing many of the eligible students during on and off campus recruitment drives. 158 students so far have been placed in CMC Ltd, Tech Mahindra, TCS, Cognizant, Infosys, BSNL, Mahatransco, Mahagenco, HNB Constructions, Associates Constructions, Conand, BHEL etc. It has signed

MoU with reputed organizations to provide soft skills training for all the students. General and technical aptitude of the students is continuously analysed using advanced technologies such as MOODLE, Google forms etc. Apart from this, it arranges pre-placement programs on personality development, corporate etiquettes, resume writing, interview skills etc.

The Institute arranges faculty development programs for better teaching-learning process. Faculties are always encouraged to use modern teaching methods and sent to short term technical training programs arranged by premier educational institutions like IIT, NIT, etc for improving their knowledge.

The Institute has an NSS unit which makes students socially aware and responsible. It also has a Self-Awareness Cell called "Vivekananda Circle" which arranges philosophical lectures by spiritual leaders, Meditation camp, etc. The NSS members conduct various social drives like blood donation camps, donations to old age homes, orphanages, to name a few.

Institute organizes National conference on Innovative Trends in Engineering and Technology (NITET) every academic year. The conference proceedings are published by Novateur publications, Pune and selected technical papers are published in International Journal of Research publications in Engineering and Technology (IJRPET, ISSN: 2454-7875) having impact factor 5.2.

Campus Special Features:

- Training for GATE exam by team of experts from reputed organizations
- Online NPTEL Videos within campus
- Online national and international Journals and e-books through DELNET
- J-Gate from informatics for e-journals
- Regular industrial visits for all students of all programs
- Emphasis on project based learning
- Personality development and soft skill development training to all students
- Remedial coaching for slow learners
- Regular training for YOGA by experts from Vivekanand Centre, Solapur
- Spacious separate building for library
- An effective RO and UV based water purification system
- 100 Mbps leased line from Reliance Communications

- Wi-Fi facility in campus

- Earn and learn scheme.

The institutional region is highly favored by sun light throughout the year. As per the figures in energy audit, to improve the energy utilization and also to bring Green Revolution, management has installed a 50 kW solar power plant with net metering. It maintains and encourages eco-friendly campus by tree plantation, reuse of waste water and elimination of all types of wastes such as biodegradables, e-waste. Therefore nature conservation is one of the best practices of the Institute. It has installed Reverse Osmosis Ultra violet (RO and UV) based water purification system as the utmost care for the health of students. The Institute has a spacious playground for outdoor sports and a gymnasium for indoor sports. On play ground, students can play cricket, volley ball, kabaddi, base ball, foot ball, etc.

For accomplishment of the objective, the Institute has an effective Entrepreneurship development unit through which maximum approach is given to the development of budding engineers and entrepreneurs. The unit work is made more effective by arranging a number of guest lectures and workshops for development of entrepreneurship. The chairman, for his continuous efforts has been honored by 'UDYOGRATAN AWARD' at the auspicious hands of His Excellency Mr. Jameer, Governor of Maharashtra state. The institution is blessed by the presence and guidance of a number of dignitaries from different fields.

SWOC Analysis

Strengths

- Solar Plant of capacity of 50kW

- The Institute functioning under Progressive committed management and dedicated intellectuals

- Well established IT infrastructure having 374 computers distributed in 5 Computer laboratories in departments.

- 100 Mbps, 24×7 Wi-Fi connectivity throughout the campus

- Green campus with maximum use of natural solar energy for lighting, power back up and trees plantation in and around the campus.

- State-of-the art infrastructure with Well-equipped laboratories and workshops.

- Experienced and University approved faculty.
- Spacious playground within the campus for various outdoor games.
- Ragging free green academic environment.
- Encouragement to sports, cultural, social activities so as to develop overall personality of the

  Students
- Entire campus under CCTV surveillance for added safety along with security guards

Weaknesses

- Number of Government of India funded R & D projects
- Number of consultancy works undertaken by the faculty
- The college is situated in the outskirts, from the heart of the city.
- Though faculty have strong capability of handling national level funding and sponsored project in R and D with maximum interest, but still they are waiting for that golden opportunity.

Opportunities

- Institutional ability to cater to the growing demand for engineers who possess sound technical knowledge, problem-solving skills,
- Launching additional postgraduate and can involve postgraduate students in R and D and consulting activities.
- Using faculty expertise for training industry professionals in the areas of technical, Software and soft skills

Challenges:

- Changing external environments in the Institute's functioning and development.
- Learners with rural back ground including First generation learners
- Dwindling aspirants for engineering and competition from new and upcoming Institutes in the region.
- Retaining dedicated faculty members of national competence overcoming location and socio-economic constraints

- Faculty switching over to the new Institutes
- Diminishing input quality and diversity of incoming students
- Recruitment of science graduates by industries, in place of engineering graduates.

PROFILE OF

THE INSTITUTE

Profile of the Affiliated/Constituent College

1. Name and Address of the College:

Name:	Shanti Education Society's A.G. Patil Institute of Technology
Address:	18/2/2A, Pratap nagar, Opposite to S.R.P. camp, Vijapur Road, Solapur
City:	Solapur	Pin: 413008	State: Maharashtra
Website:	www.agpit.edu.in

2. Contact details:

Designation	Name	Telephone With STD code	Mobile	Fax	Email
Principal	Dr. S. A. Patil	0217-2342499 Ext -202	9730160904	0217-2342221	principal @ agpit.edu.in
Vice Principal	Prof. V. V. Potdar	0217-2342499 Ext-203	9422646428		v.principal @agpit.edu.in
Steering Committee Coordinator	Prof.R.V. Darekar	0217-2342499 Ext -303	7875282080		rvdarekar @agpit.edu.in

3. Status of the Institute:

1.	Affiliated College	✓
2.	Constitute College	
3.	Any Other (Specify)	

6. Type of Institution

1.	Regular	✓
2.	Day	
3.	Evening	

1.	For Men	

a. By Gender

2.	For Women	
3.	Co-education	✓

b. By Shift

It is arecognized minority institution?

Yes	✓
No	

√

If yes,specifythe minority status (Religious/linguistic/any other) and provide documentary evidence.- Linguistic Minority

6. Sources of funding:

1.	Government	
2.	Grant-in-aid	
3.	Self-financing Any other	✓

7. a. Date of establishment of the college:06/06/2008

b. University to which the college is affiliated/or which governs the college

(If it is a constituent college):- Solapur University, Solapur

c. Details of UGC recognition:

Under Section	Date, Month andYear	Remarks (If any)
i.2(f)	Applied vide letter No. AGPIT-Aff./2016-17/3297 Dated: 22/08/2016	Awaiting Reply
ii.12(B)	Not Applicable	Not Applicable

d. Details of recognition/approval by statutory/regulatory bodies other than UGC(AICTE,NCTE, MCI, DCI, PCI, RCI etc.):

Approved by AICTE, New Delhi

Under Section/ Clause	Recognition/Approval details Institution/Department Programme	Day, Month and Year (dd-mm-yyyy)	Validity	Remarks
Notification No. F- No.37-3/Legal/2012 dtd.27/09/2012.	Mechanical Engg.	05/04/2016	One year	Approval renewed annually
	Computer Engg.			
	Electronics and Telecom. Engg.			
	Civil Engg.			
	M. E. Mechanical (Manufacturing Process Engg.)			

(Approval letter enclosed)

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 | √ |

    If yes, date of recognition :…………………….(dd/mm/yyyy)

    b. For is performance by any other governmental agency?

    Yes | | No | √ |

     If yes, Name of the agency…………………….and

        Date of recognition :…………………….(dd/mm/yyyy)

10. Location of the campus and area in sq. mts:

Location*	Urban
Campus area in sq. mts.	40,468.73 sq.mts.
Built up area in sq. mts.	18,701 sq. mts.

(*Urban, Semi-urban, Rural, 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.

- Auditorium/seminar complex with infrastructural facilities : Yes
- Sports facilities:

Play Ground	✓
Swimming Pool	
Gymnasium	✓

- Hostel

- Boys' hostel

Number of hostels	1
Number of inmates	100
Facilities- Hostel rooms with attached toilet bathrooms, Wi-Fi Connection, Common room with newspaper, Indoor games, Solar Water heater, RO and UV purified drinking water ,water Coolers, Fire fighting equipments	✓

- Girls' hostel

Number of hostels	1
Number of inmates	100
Facilities – Hostel rooms with attached toilet bathrooms, Wi-Fi Connection, Common room with newspaper, Indoor games, Solar Water heater, RO and UV purified drinking water ,water coolers, Fire fighting equipments, Security	✓

Working women's hostel : No

Number of inmates	
Facilities (mention available facilities)	
Residential facilities for teaching and non-teaching staff (give numbers available—cadrewise)	NO

Cafeteria	✓	Health centre	✓

First aid, Inpatient, Outpatient, Emergency care facility, Ambulance….Health centre staff–

Qualified Doctor	Full Time		Part time	✓
Qualified Nurse	Full Time		Part time	✓

Generator or other facility for management/regulation of electricity and voltage	Yes
Solid waste management facility	Yes
Waste water management	Yes
Water harvesting	Yes

Facilities like banking, post office, book shop	No
Transport facilities to cater the needs of students and staff	Yes
Animal House	No
Biological waste disposal	No

12. Details of programmes offered by the college (AcademicYear 2016-17)

Sr. No.	Programme Level	Name of the Programme/ Course	Duration	Entry Qualification	Medium	Sanctioned/ approved Student strength	No.of students admitted	
							FE	DSE
1.	Under-Graduate	Civil Engineering	4 Years	12thScience Pass with min.50% for open and 45% for reserved category And Non zero score for JEE or MH-CET	English	60	06	68
		Computer Engineering	4 Years			60	16	68
		Electronics and Telecomm. Engineering	4 Years			60	03	06
		Mechanical Engineering	4 Years			120	07	59
2.	Post-Graduate	Manufacturing Process Engg. (Mechanical Engineering)	2 years	B. E. / B. Tech. with First Class and Non zero GATE Score	English	18	01	

13. Does the college offer self-financed programmes?

Yes	√	No	

If yes, how many

UG	4	PG	1

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

Yes	√	No		Number	1 (PG)

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 and Technology	Civil Engg.	√		
	Computer Engg.	√		
	Electronics and Tele Communication Engg.	√		
	Mechanical Engg.	√	√	

16.   Number of Programmes offered under

Annual system	---
Semester system	05
Trisemester System	---

17.   Number of Programmes with

Choice Based Credit System	05
Inter/Multidisciplinary Approach	---
Any other (specify and provide details)	---

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

Yes		No	√

If yes,

a.   Year of Introduction of the programme(s)…………………(dd/mm/yyyy)

and number of batches that completed the programme

b.NCTE recognition details (if applicable)

Notification_No……………………………………

Date:……………………………(dd/mm/yyyy)

Validity:…………………………

c. Is the institution opting for assessment and accreditation of Teacher Education Programme separately?

Yes		No	√

19. Does the college offer UG or PG programme in Physical Education?

Yes		No	√

If yes,

a. Year of Introduction of the programme(s)………………(dd/mm/yyyy) | No |

and number of batches that completed the programme

b.   NCTE recognition details (if applicable)

 NotificationNo.…

        Date:……………dd/mm/yyyy) Validity:………

c. Is the institution opting for assessment and accreditation of Physical Education

Programme separately?

Yes		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	*M	*F	*M	*F	*M	*F	*M	*F
Sanctioned by the UGC/University/State Government *Recruited*	09		17		39 16	17 15	**	**	**	**
Yet to recruit	09		17		23	02				
Sanctioned by the Management/ society or other authorized bodies *Recruited*	02 02		04 04	02 02	05 05	07 07	23 23	01 01	13 13	04 04
Yet to recruit	---		---	---	---	---	---	---	---	---

 *M-Male*F-Female   ** Not Applicable for Minority Institution.

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			01			
M.Phil.							
PG	01		04	01	21	22	
Temporary teachers							
Ph.D.							
M.Phil.							
PG							
Part-time teachers							
Ph.D.							
M.Phil.							
PG							

22. Number of Visiting Faculty/Guest Faculty engaged with the College - 03

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

Categories	Year - 1 2012-13		Year- 2 2013-14		Year - 3 2014-15		Year - 4 2015-16		Year - 5 2016-17	
	Male	Femal	Male	Female	Male	Femal	Male	Female	Male	Female
SC	61	36	45	33	50	35	34	25	38	28
ST	1	1	1	1	2	1	0	1	1	1
OBC	151	50	92	39	102	44	62	33	76	37
General	375	135	409	127	366	112	256	110	223	99
Others	73	36	89	53	94	57	84	45	112	60

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

Type of students	UG	PG	Total
Students from the same State where the college is located	32 -FE / 201-DSE	01	234
Students from other states	Nil	Nil	Nil
NRI students	Nil	Nil	Nil
Foreign students	Nil	Nil	Nil
Total	233	01	234

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

UG	0.2	PG	0

26. Unit Cost of Education

(Unitcost=total annual recurring expenditure (actual) divided by total number of students enrolled)

(a)Including the salary component   **Rs.1,10,872/-**

(b)Excludingthe salary component   **Rs.12,553/-**

27. Does the college offer any programmes in distance education mode (DEP)?

Yes		No	√

If yes,

a) Is it a registered centre for offering distance education programmes of another University

Yes		No	√

b)   Name of the University which has granted such registration.

c) Number of programmes offered

d) Programmes carry there cognition of the Distance Education Council.

Yes		No	√

28. Provide Teacher-student ratio for each of the programme offered(2016-17)

Sr. No.	Programme	No. of Students	No. of Faculty members	Teacher- student ratio
1	Civil Engineering	187	09	1:20.8
2	Computer Engineering	195	12	1:16.25
3	Electronics and Telecommunication Engineering	76	13	1:5.84
4	Mechanical Engineering (UG)	180	10	1:18
5	Mechanical Engineering (PG)	05	02	1:2.5
6	First Year Engineering	32	05	1:6.4
Overall		**675**	**51**	**1:13**

29. Is the college applying for

Accreditation:

Cycle1	YES	Cycle2		Cycle3		Cycle4	

Re-Assessment:

(Cycle 1refers to first accreditation and Cycle 2, Cycle3 and Cycle 4 referto re-accreditation)

31. Number of working days during the last academic year = 288

32. Number of teaching days during the last academic year = 204

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

CRITERION-WISE EVALUATION

CRITERION I:

CURRICULAR ASPECTS

CRITERIA-WISE INPUTS

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, teachers, staff and other stakeholders.

VISION

International standing in technical education and research, contributing towards improvement and impowerment of society, country and in turn mankind

MISSION

1. To develop technically sound and globally accepted professionals.

2. To enhance capability of updating with cutting edge technologies and innovative research ideas

3. To make aware of social commitments and highest ethical values as inner strength for upliftment of mankind.

4. To needlecraft career oriented courses and interactive teaching- learning process.

OBJECTIVES:

1. To develop effective teaching-learning environment in all the programs of study.

2. To organize short-term courses, National / International level Conferences, Workshops and Seminars for faculty and students on current technological developments.

3. To conduct skill enhancement programs for students.

4. To organize job oriented training programs for students to bridge the gap between professional requirements and curriculum.

5. To conduct value added programs like developing soft and professional skills for students and staff.

6. To arrange social, ethical and environmental awareness activities among staff and students.

7. To enter into Memorandum of Understanding (MoU) with R&D Institutes, Industry and University.

8. To provide Campus placement facilities to the students.

Vision and Mission of the Institution are communicated to the students, teachers, staff andother stakeholders through the following ways:

- Vision and Mission of the Institute is displayed at main entrance of the Institute and at all important places in the campus such as the departments, library, laboratories, canteen, Training and placement cell and central computing lab.It is displayed on the tute website.

- It is conveyed during various students/faculty orientation/induction programs and published regularly inInstitute's broacher, Institute's magazine-AGglomeration and Newsletters.

- It is displayed during important events of the Institute like - technical paper presentation contest, conferences / seminars / workshops / symposiums etc. organized by the Institute.

- A technical event like AGTechfest, Parents and alumni meets etc.

- Communication with various industries and society include vision and mission statements of the Institute.

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 example(s).

For an effective implementation of the university prescribed curriculum, the Institute deploys its action plan in the following steps and processes:-

I) Before the commencement of classes

II) During the Course of semester

III) After End of teaching session

I) Before the commencement of classes

- Every department has defined its specific Vision and Mission in tune with the Vision and Mission of the Institute.

- Program wise curriculum/ syllabus for the semesters is provided by University.

- Each program of the department is elaborated in terms of Program Outcomes (POs) which are aligned with graduate attributes. Furthermore, Curriculum is defined in terms of Course Outcomes (COs) for every course taught for effective deployment of the curriculum.

- Formulation of Institute's Academic Calendar/Almanac for the semester at the beginning of each semester.

- Extra lectures are planned in regular time table of SE and FE for the subjects like Engg. Mathematics III and Numerical Methods etc. in which students require detail explanation and practice.
- Experience based allotment of subjects is done to various faculty members of the department.

Before commencement of classes

1. Collection of syllabus from the university.

2.Study of syllabus by HOD with Academic Monitoring

    Committee

3. Formulation of academc calendar.

4. Work load distribution.

5. Formulation of timetable.

6. Preparation of course files by individual faculty.

7. Distribution of curriculum to students.

Action plans for effective implementation of curriculum

During the course of semester

1.Monthly review meetings by Academic Monitoring

    committee

2. Monthly mentor and Class Monitoring

    Committee meetings with students.

3. Conducting class tests   and preliminary exam.

4. Evaluation of internal marks.

5.Collecting student feedback.

After end of semester

1. Submission of internal marks.

2.Conducting university exams.

3.Review of faculty wise feedback.

4.Result analysis of university exam.

5.Corrective measures for improvement of result in

    next semester.

Figure 1.1: Flow-Chart for Effective Implementation of Curriculum

- Formulation of faculty wise weekly teaching load includes theory lectures/tutorials/ practical's/ problem solving sessions (if any) as per university curriculum.

- Preparation of class time table as per weekly teaching load of subjects by time table faculty in-charge.

- Preparation of teaching plans by individual faculty for the subjects they are handling including the laboratory planning within the ambit of the academic schedule. The academic schedule is strictly followed as per the almanac.

- Academic files and Course files are prepared by the individual faculty as given below in tabular form and these records are assessed by IQAC and the concerned heads of department internally in the mid of semester to identify areas which need improvement.

Table 1.1: Contents of Academic File and Course File

Index of Academic File		Index of Course File	
Sr.No.	Contents	Sr. No.	Contents
1	Academic Calendar	1	Syllabus
2	Individual Time Table	2	Course objectives
3	Roll call List	3	Course outcomes
4	Teaching Plan	4	University Question Papers set
5	Attendance (Theory and Practical)	5	Test Question Papers
6	Continuous Assessment Sheet	6	Question Bank – theory paper and oral exam.
7	Mentoring Record	7	Assignments
8	Extra Classes Record	8	Mapping of CO's With PO's
9	Remedial Classes Record	9	Learning Materials
10	Term work Record	10	New Facility Created (Model Answer book, NPTEL Videos, List of Books, Sample Answer Papers)
11	Beyond the Syllabus Teaching Record		
12	Visits (Industry Institute Interaction) Reports		

- Display of class time tables on notice boards.

- Distribution of academic curriculum/syllabus including evaluation scheme to each student

of the class.

II) During the Course of semester after commencement of Classes

- Regular conduct of lectures/tutorials/ lab classes duly monitored by Academic Monitoring Committee (HOD, Vice Principal and Principal) on regular basis.
- Conduct of monthly review meeting by Academic Monitoring Committee with faculty members regarding progress on syllabus coverage.
- Lesson plans are uploaded in ERP systems.
- Feedback is taken from student for any short fall, deficiency in teaching, behavioral problems of faculty, and corrective measures are conveyed to concern Faculties.
- Conduct of two/three class test, preliminary exam after approximate completion of syllabi, evaluation of answer sheets, distribution of evaluated answer sheets to students and uploading of marks in ERP Marks System.
- Evaluation of lab work and term work on regular basis and continuous assessment marks are given.
- Uploading of term work marks (allotted for attendance, teacher's assessment and compilation of subject wise term work marks)
- Conduct of mid semester student feedback for each teaching faculty on the pre-defined parameters.

III) After End of teaching session

- Compilation of term work marks based on continuous assessment sheet for each subject by concerned department and submission to exam section of Institute.
- Review of student performance in internal term work marks by Academic Monitoring Committee.
- Review of Faculty wise student feedback and conduct of counseling/mentoring of individual by HOD for any shortfall and improvements.
- Conduct of university examination.
- On declaration of university results, Compilation of result analysis sheet of students of each class by each department.
- Analysis and review of 'Results' by Academic Monitoring Committee and corrective measures decided for implementation in next semester.

Additional measures in curriculum implementation are as follows:-

- Poor performance of the students is regularly informed to their parents by telephonic conversation who can contribute in the improvement of the student. The parents are encouraged to meet the HOD and class coordinator to have on the spot feedback of the student.

- Practical lab session is conducted synchronously with the theory. Thus at the end of the semester, the students get theoretical knowledge blended with practical application.

- Students are given opportunity to exhibit their skills and leadership qualities by attending and organizing national /international conferences, seminars, workshops, project contests and other extracurricular activities.

- The communication skills of the students are incorporated through various programs like aptitude session, PDP/ Soft Skill classes, group discussion and mock interviews and social media like Whatsapp, Facebook, E-mails. Class coordinator of every class and each branch have created Whatsapp group for circulation of notices, circulars as well as for discussion of academic activities.

- Each department is having a Departmental Advisory Board (DAB), which includes representatives from Faculty, Academicians, Industrialists, Student and Parent. This board helps in improving and implementing academic quality as per local and global need. Tabulation given below indicates the details about Department Advisory Board-

Table1.2: Department Advisory Board

Name	Affiliation	Designation
Department of Mechanical engineering		
Prof. V.V.Potdar	Vice- Principal	Chairman
Prof. S.B.Gadwal	HOD	Member from Institute
Prof. S.R.Gavhane	Assistant Professor	Member from Institute
Prof. S.D.Bapat	Academician	Member from academia
Mr. Kashinath Sangumule	M.D,R.M.applied engineers, Mumbai	Member from Industry
Mr. Subhash Guruji	Century cooling system Solapur	Member from Industry
Mr. A.U.Sarade	Student	Student member UG
Mr. Sudeep Upadhye	Student	Student member PG
Prof. G.R.Deshpande	Assistant Professor	Member Secretary
Department of Electronics and telecommunication engineering		

Prof. S.R.Sakhare	Associate Professor	Chairman
Prof. S.J.Ligade	Assistant Professor	Member from Institute
Prof. R.V.Darekar	Assistant Professor	Member from Institute
Miss. D.Upadhye	Student	Alumni Member
Prof. P.K.Dhage	Assistant Professor, MIT, Pune	Member from Academia
Mr. S.P.Akiwate	AkiwatePCB Design, Pune	Member from Industry
Mr. S.S.Sathe	Manager, Sathe Industries, Solapur	Member from Industry
Prof. A.S.Jirage	Assistant Professor	Member Secretory
Department of Civil Engineering		
Prof. T.D.Maslekar	Assistant Professor	Chairman
Prof. P.S.Swami	Assistant Professor	Members from Institute
Prof. P.R.Hedgire	Assistant Professor	Members from Institute
Er. P. V.Joshi	Consulting Civil Engineer	Member from Industry
Er. G. N. Chitari	Envirosafe consultants,Chatigalli, Solapur.	Member from Industry
Prof. D.S.Yerudkar	Assistant Professor, MIT Academy of engg., Alandi, Pune.	Members from Academia
Prof. P.S.Bhopale	Professor SES,HOD (Civil Dept.)	Member from Industry
Mr. Shaikh Shabaaz	Lecturer at A.G.P.P.I.,Solapur.	Alumni Member
Mr. Kalmankar Srinath	Student	Student member UG
Ms. Shaikh Nayera	Student	Student member UG
Prof. S.M.Birajdar	Assistant Professor	Member Secretary
Department of Computer Engineering		
Prof. M.A.Khureshi	Associate Professor	Chairman
Prof. A.K.Kannur	Associate Professor	Member from Institute
Prof. A.S. Patil	Assistant Professor	Member from Institute
Dr. N. V. Dharwadkar	Professorand HOD CSE RIT, Islampur.	Member from Academia
Mr. Sandip Desai	Managing Director, NIIT Solapur division.	Member from Industry
Er. Bharath Kumar L.	Sr. Engineer, Tesco-Amazon, Bengaluru.	Member from Industry
Mr. Rohit Tuljapurkar	Student	Alumni Member
Prof. S.V.Kulkarni	Assistant Professor	Member Secretory

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?

Support from University: Solapur University organizes syllabus setting workshops whereby faculty members re-define and finalise the depth and coverage of the curriculum along with question paper pattern with a committee of staff members from different colleges in university area. It is well structured, unitized and modeled giving the details like teaching and marking scheme. Thus curriculum is prepared and provided by Solapur University.

Support from Institution: Faculty orientation are organized for helping the faculty to acquire and improve the art of teaching to achieve goals of technical education and to keep abreast of the latest developments in their specific areas of engineering and basic sciences.

Staff members are given support (duty leaves) from institution to attend National and International seminars / conferences and short term training programs conducted in other Institutions so that faculty are enriched with subject knowledge. Through such lectures faculty get systematic orientation in specific subject, teaching techniques and methodologies for effective dissemination of knowledge.

Table 1.3: Continuous learning program attended by faculty

Year	2016-17	2015-16	2014-15	2013-14	2012-13
No.of programs	8	35	29	30	28

Institute also provides necessary support and encourages faculty to present and publish their research papers at national and international level.

Table 1.4: Number of publications and paper presentations by faculty members

Name of Department	Publication			
	National Journal	**National Conference**	**International Journal**	**International Conference**
Mechanical engineering	18	32	54	4
Civil engineering	25	13	---	---
Computer engineering	1	1	15	2
Electronics and telecomm. engineering	13	6	6	4
General science and engineering	1	1	8	3

- The Inputs obtained through student feedback are conveyed to concerned faculty members forimprovement in effective teaching.

- Expert faculty members guide (depending upon their field of interest / expertise) relatively less experienced faculty to overcome the problems faced by them during the teaching

learning process typically building subject understanding, solving drill problems, setting test papers and quizzes etc.

• For promoting effective translation of curriculum the departments, classrooms, laboratories are equipped with resources such as

(i) Models and Charts: are used to explain concepts effectively.

(ii) Wi-Fi facility, LCD projector: help to show various curriculum related videos

(iii) Digital library and e-Journal is provided to faculty which helps to know and work in current research area.

(iv) Laboratories are set up with latest equipments to strengthen the curriculum delivery.

(v) Computer labs are with standard configuration hardware systems to meet growing challenges of the industry.

(vi) Appropriate budgetary planning is done to meet financial requirements for setting up and maintaining the laboratories as per the curriculum requirements as suggested by university.

(vii) For enrichment of knowledge,Institute encourage faculty to pursue Ph.D. Faculty members are provided study leave facility.

Table 1.5:List of faculty members persuing Ph.D.

Sr.No.	Name of Faculty persuing Ph.D.	Department
1	Prof. V.V. Potdar	Mechanical Engineering
2	Prof. S.B.Gadwal	
3	Prof. G.R. Deshpande	
4	Prof. A.K. Kannur.	Computer Engineering
5	Prof. S.R. Sakhare	Elecrtonics and Telecommunication Engineering
6	Prof. R.V. Darekar	

•   Institute takes efforts to develop network to various industry and research organizationsthrough industry Institute interaction cell.

Table 1.6: Industry Institute Interaction Cell

Sr. No.	Name of Staff Member	Department	Designation
1	Prof.S. J. Ligade	E and TC Engg.	Chairman
2	Prof.S.V.Patil	T.P.O.	Member
3	Prof.A.S.Patil	Computer Engg.	Member
4	Prof.M.M.Chakole	Mechanical Engg.	Member
5	Prof.P.R.Hedgire	Civil Engg.	Member

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 is continuously taking efforts throughout the year to enhance the curriculum delivery quality.

• The quality objectives and goals are prepared. These are communicated to all staff and students of the department. The action plan to achieve these objectives is prepared and implemented upon. The Institute prepares the academic calendar.It consists of two calendars one at Institute level and other at department level. Institute level calendar focuses on the main academic activities at central level.

• Department level calendar includes all the academic and non academic activities that will be carried out in a semester.

• Course file of a teacher contains vision and mission of the Institute and Department timetable, teaching plan, student list, syllabus and unit by unit notes, contents beyond syllabus and previous year question papers, model answers. The monitoring of this course file is done by the respective head of the departments on monthly basis.

• The Institute encourages faculty to make use of ICT based learning for effective curriculum delivery. To support this, Institute has enriched classrooms with a facility of LCD. Also provisions are made for on-line lectures in Samarth hall. Many e-books aremade available to the students through DELNET facility.

• Effectiveness of deploying the curriculum delivery is measured by continuous evaluation of the students through assignments, chapter wise tests. By seeking feedback from students, corrective steps are taken accordingly.

- Industrial visits are arranged so that students can get practical exposure on the subjects of curriculum.

- Suitable lab experiments are designed as per curriculum and conducted to make the students to understand the concepts more effectively. Some beyond syllabus experiments are also designed and conducted.

- The question bank, lab manuals are prepared by faculty and made available to the students.

- Institute is having well defined process to identify weak and bright students and to guide them. Slow learners and advanced learners are identified thorugh –
    i. Mentor activities
    ii. Internal tests
    iii. Analysis of University Results
    iv. Attendance records
    v. Observation during practicals and tutorials.

- Remedial teaching is arranged for slow learner students who have lower percentage of passing.

- Additional inputs are given to bright students as and when required.

- Soft skill programs are organized for overall developments of students and prepare them to face interviews.

- The faculty mentor establishes a close relationship with each student which orients them to follow college practices and monitors their progress regularly (e.g., monthly meetings with students) and guides them throughout the academic year.

- Review of syllabus completion and its effectiveness is taken in students council meeting in addition to feedback.

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

Networking and Interaction with Industry

The Institute has a Training and Placement cell for effective relation mentaining professional relations with the industry. The HR managers of various companies are invited to the Institute campus to interact with the students through expert guidance lectures. Reputed industries are conducting interviews with priority in campus recruitment drives. The institution has appointed training and placement officer (TPO) to promote, maintain strengthen network

with industries through signing of MoUs, their effective implementation and arranging placement by industries in the on campus and off campus. The Institute have signed MOUs with different training Institutes. Students are encouraged to execute industrial projects. They are taken for Industrial visits. Under research policies Institute has arranged a number of conferences, workshops and seminars to encubate research aspect in budding engineers, to name a few as belows-

- Workshop on "Scope of Mechanical Engineers in Software Industries" during 2016-17
- National conference "Innovative trends in engineering and technology"during 2015- 16
- " PLC and robotics" two days faculty development program during 2015 -16
- Workshop on "Teaching methodology for Plastic Engineering" during 2015-16
- Workshop on "Various open source software [FOSS]" during 2015-16
- Solapur University sponsored National workshop "Research approach in graph theory during 2011-12.

- **Interaction with University**

i) Faculty of the Institute participate in subject wise syllabus setting workshops organized by Solapur university, Solapur.

ii) Institute cooperates to conduct University examinations of other disciplines like Architecture and Pharmacy.

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 faculty members of the institution represent various Local Inspection committees of Solapur University, Solapur. In addition, faculty members participate in subject wise syllabus setting workshops organized on behalf of the university. The details in this respect are given below:

Table 1.7: Faculty contribution at University level

Department of Mechanical Engineering:

Sr. No	Name of Faculty	Representation on University Bodies/ Committees/Workshop
1	Dr. S.A.Patil	Chairman, Local Inspection Committee Solapur University, Solapur
		Subject Expert in Mechanical Engineering. Solapur University, Solapur
2	Prof. V.V.Potdar	Member of Local Inspection Committee Solapur University, Solapur

3	*Dr. S.R. Dulange	Subject Expert in Mechanical Engineering.
		Chairman of Flying Squad, Solapur University, Solapur
		Member of Local Inspection Committee Solapur University, Solapur
4	Prof.S.B.Gadwal	Member of Syllabus setting workshop Solapur University, Solapur
5	Prof. G. R. Deshpande	Member of Syllabus setting workshop Solapur University, Solapur
6	Prof. M. A. Shaikh	Member of Syllabus setting workshop Solapur University, Solapur
7	Prof.J. S. Mujawar	Member of Syllabus setting workshop Solapur University, Solapur

Department of Civil engineering:

Sr. No	Name of Faculty	Representation on University Bodies/ Committees/Workshop
1	Prof. T. D. Maslekar	Worked as Member of Local Inspection Committee Solapur University, Solapur.
		Member of syllabus setting workshop Solapur University, Solapur
2	Prof. A. S. Ligade	Worked as Member of Local Inspection Committee Solapur University, Solapur.
		Member of syllabus setting workshop Solapur University, Solapur
3	Prof. S. M. Birajdar	Worked as Member of Local Inspection Committee Solapur University, Solapur.
		Member of syllabus setting workshop Solapur University, Solapur
4	Prof. P. S.Swami	Member of syllabus setting workshop Solapur University, Solapur
5	Prof. A.G. Ghalimath	Member of syllabus setting workshop Solapur University, Solapur

Department of Electronics and Telecommunications engineering:

Sr. No	Name of Faculty	Representation on University Bodies/ Committees/Workshop
1	Prof. S. R.Sakhare	Worked as Member of Local Inspection Committee Solapur University, Solapur
		Member of syllabus setting workshop Solapur University, Solapur
2	Prof. A. S.Jirage	Member of syllabus setting workshop Solapur University, Solapur
3	Prof. S. J.Ligade	Member of syllabus setting workshop Solapur University, Solapur
4.	Prof. S. P.Katke	Member of syllabus setting workshop Solapur University, Solapur

5	Prof. R.V.Darekar	Member of syllabus setting workshop Solapur University, Solapur

Department of Computer Engineering:

Sr. No.	Name of Faculty	Representation on University Bodies/ Committees/Workshop
1	Prof. A. B.Valsang	Member of syllabus setting workshop Solapur University, Solapur
2	Prof. S.V. Kulkarni	Member of syllabus setting workshop Solapur University, Solapur
3	Prof. A. K. Kannur	Member of syllabus setting workshop Solapur University, Solapur
4	Prof. M. A. Khureshi	Member of syllabus setting workshop Solapur University, Solapur

Department of General Science:

Sr. No.	Name of Faculty	Representation on University Bodies/ Committees/Workshop
1	Dr. P.V.Vedula	Member of syllabus setting workshop Solapur University, Solapur
		Member of paper setting committee for EM II Solapur University, Solapur
2	Prof. R. B. Kulkarni	Member of syllabus setting workshop Solapur University, Solapur
3	Prof. S. K. Konapure	Member of syllabus setting workshop Solapur University, Solapur
4	Prof. R. M. Bhaganagare	Member of syllabus setting workshop Solapur University, Solapur

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. Institute provides Communication skill developing program for all students as communication plays a vital role in the employability of the graduates. The students come from both rural area and urban area, studied in Marathi medium prior to admission to the institution get benefit in improving English communication and stage courage.

Following short term courses other than those offered by the University are conducted, keeping in view of the growing demand and relevance of skill oriented certification.

Table 1.8:List of Add on programs

Sr.No.	Title	Goal	Target Students
1	CATIA	To enhance the software knowledge of students.To improve career development and job opportunity. Enable students to do in-house final year real time projects	TE and BE Students of Mech. Engg.
2	PRO – E	To enhance the software knowledge of students.	TE and BE Students of Mech. Engg.
3	UNIGRAPHICS by Ambitec Technologies, Pune.	To enhance the software knowledge of students.	TE and BE Students of Mech. Engg.
4	PCB designing workshop	To get knowledge of PCB design professionally.	Students of EandTC
5	Electronic circuit design and simulation	Exploration to various electronic circuits based on projects.	SE and TE EandTC students
6	SCILAB	To get knowledge of Analog,digital communication etc.via simulation.	S.E.and T.E. EandTC students
7	Soft skill development	To devolope soft skills amongst the students	S.E., T.E., B.E., Students of all branches
8	AUTOCAD	To create interest among students about civil engg.drawing	S.E. Civil Engg. Students
9	MATLAB	To get knowledge of GUI and project based learning.	B.E. Students of EandTC
10	ARDUINO	To get knowledge of advanced processor and high ended peripheral interfacing	S.E.and T.E.,B.E.E and TC students
11	RASPBERRY Pi	To get knowledge of advanced embedded operating system	B.E. Students

1.1.8. How does institution analyze/ensure that the stated objectives of curriculum are achieved in the course of implementation?

The Institute meticulously develops action plans for effective implementation of the curriculum by achieving the learning outcomes. Every department has defined its specific Vision and Mission in tune with the Vision and Mission of the Institute. Each program of the department is elaborated in terms of Program Outcomes (POs) which are aligned with graduate attributes. Furthermore, Curriculum is defined in terms of Course Outcomes (COs) for every course taught for effective deployment of the curriculum.

- Before the beginning of every semester, faculty meeting is conducted. Strategies for effective deployment of curriculum and for effective development of activities beyond the curriculum are evolved. Planning is done to impart the curriculum through innovative teaching methods such as presentations, assignments, discussions, workshops, seminars, industrial visits, NPTEL videos, webinars, computer education apart from regular/traditional teaching methods.

- Academic calendar is evolved to incorporate all the curricular and co- curricular activities such as tests, industrial visits, guest lectures, etc.

- Teaching plans of teachers are prepared based on the Academic Calendar. Subject Files are prepared and maintained by each faculty which is reviewed on continuous basis by the Head of the Department during the monthly meetings.

- Any deviation from the Academic Calendar and in the teaching plan will be compensated at the earliest to ensure minimum variation.

- The laboratories and lab manual are made ready prior to the start of the semester. Lab manuals are reviewed periodically audited and modified as per the requirement.

- Continuous evaluation of the students' performance in the chapter wise tests, class tests, university examinations, etc is used to measure the achievement of the set objectives. Data of students taking admission to higher studies and the students placement data is also used to analyze the achievement of learning outcomes.

- Feedback is sought twice in a year from students and at regular intervals from all the stakeholders. Information from the feedback is analyzed and corrective steps are taken to ensure that the stated objectives of curriculum are achieved.

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.

Short term courses other than those offered by the University are designed, keeping in view the growing demand and relevance of skill oriented certification. The courses serve as value addition thereby enhancing the student's employability skills.

Table 1.9:Skill oriented certification programs

Sr.No.	Title	Goal	Target students
1	Revit Arch. (Two Days Workshop)	To understand the concept and working design of Revit Arch.	T. E. and B. E. students
2	Total station Instrument orientation by Er. Upase	To understand and learn modern equipment in surveying.	T. E. and B. E. students
3	Orientation program on primavera, MS-Pro By Er. Loni Sir	MS-Project	Civil Engg. T. E. and B. E. students
4	Orientation program on AUTO-CAD By Mr.Kandhale	To create interest among students about AUTO-CAD	Civil Engg. S.E. year students
5	PCB Designing Workshop	To create interest among students about PCB Designing.	E and TC Engg. T. E. and B. E. students
6	ART of writing a technical paper and emotional engineering	To create interest among students for paper presentation	All Faculties from Solapur University
7	Technical university Quo-vadis	Introduction	All Principals, Directors from Engg. Institutes in Maharshtra state
8	Lab view and simulink	Introduction	All Faculties from Solapur University

9	Workshop On Quad copter for Mechanical Engineer students.	Introduction to copter technology.	Mech. Engg. Students
10	One Day workshop on Auto CAD-Primer for final year Diploma Students	Introduction to Auto CAD	Mech. Engg. Students
11	Faculty Development Training programme in Entrepreneurship	Introduction to development of Entrepreneurship.	All Faculties

1.2.2. Does the institution offer Programs that facilitate twinning/dual degree?

If yes, give details.

Institute offers programs provided by Solapur University only.

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.

The syllabus and curriculum is designed by the University. However for an enhancement of curriculum, University invites proposals from various affiliating Institutes, which includes review/ modification of existing syllabus, introduction of new subjects of current technological significance. The Institute actively participates in these activities. The final year students choose electives from the ones offered by the University. This choice is based on the latest trends in the industry.

Table 1.10:List of Elective subjects offered

Sr.No.	Department	Elective subjects offered
1	Civil Engg.	Design of Bridges
		Managerial Techniques
		Optimization Techniques
		Solid and hazardous waste management
2	E and TC Engg.	Image Processing
		Pattern Recognition
		Advanced telecommunication Network

		Embedded system
		Advance digital signal processing
		Wireless Sensor Network
		DSP processors and Applications
3	Computer and IT Engg.	Information Retrieval
		Software testing and quality assurance
		Storage Area Network
		Object Oriented Modeling Design
		Human computer interaction
		Distributed Computing
		Cloud Computing
4	Mechanical Engg.	Experimental Stress Analysis
		Automobile Engineering
		Power plant energy
		Material handling system
		Tool engineering
		Production and operation management
		Entreprunership development program
		Plastic engineering

- Content beyond syllabus is covered by conducting workshops and guest lectures by experts from the industry.

- Industrial visits are arranged for S.E, T.E and B.E students to help them understand the work culture of the industry.

- The Institute has signed MoU with different Organization

- Additional lecture hours introduced for problem oriented and difficult subjects.

- Mini projects and industry based final year projects are preferred.

- Students are encouraged for presenting Seminars (Topic/ Unit wise)

- Industrial visits are conducted in every semester.

- GATE coaching and training programs are conducted by professionals

- Provision for vacation training / in-plant training for academic mobility. The in-plant training activity is not included in the course curriculum of many programs. But the Institute encourages students of Third year to undergo in-plant training in their fields of interest for a period of one to two weeks during their winter/summer vacation. After completion of the training, students prepare the training report.

- Encouraging students for interdisciplinary projects.

- This knowledge goes a long way and helps in the job selection process. This meets our aim to confer with global requirements.

- Choice of selection of final year project in Undergraduate course. The students of final year begin their survey of project selection right at the end of sixth semester. The Institute encourages the students to visit the nearby industries and take-up an industry problem as the project task. The Institute offers complete flexibility to students in finalizing the project application area.

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

Yes. This is an exclusively self-financing professional institution for technical education. The Institute offers the following undergraduate and post graduate programs.

Table 1.11: Undergraduate and Post graduate programs

Sr. No.	Program Level	Name of the Program/Course	Duration
1.	Under-Graduate (UG)	Civil Engineering Mechanical Engineering Computer Engineering Electronics and Telecommunication Engineering	4 years
2.	Postgraduate (PG)	M.E. (Mech.Engineering-Manufacturing Process)	2 years

- **Students admission**

    Admissions are made as per the DTE norms.
    80 % of the seats are admitted through DTE quota and 20 % of the seats are admitted by the management quota.

Table No. 1.12: Students fees structure

Sr.No.	Program	DTE Quota	Management Quota
1	**UG**	As per Shikshan Shulka Samiti of Maharashtra state government.	
2	**PG**	As per Shikshan Shulka Samiti of Maharashtra state government.	

Table 1.12 A: Teaching staff

Sr.No.	Total Teaching Staff	Teaching Staff (Post Graduate)	Teaching Staff (Persuing Ph.D)	Teaching Staff (Ph.D)
1	51	51	6	2

Qualification: M.E., for Engineering discipline or Masters Degree for Science and
                Humanities

Salary: As per AICTE Norms

1.2.5 Does the Institute provide additional skill oriented programs, relevant to regional and global employment markets? If 'yes' provide details of such program and the beneficiaries.

Yes. The institution has identified a number of regional and global employability skills that would uphold better productivity and performance among students. Some of the programs are as given below in table.

Table 1.13 :Details of the Program and Beneficiaries

Sr.No.	Name of the Program	Beneficiaries
1	Entrepreneurship Awareness Camp	All Students
2	Communication Skills Lab.	F.E. Students
3	Aptitude Training Program	S.E. T.E.and B.E. Students of all branches
4	Technical university Quo-vadis	All Students of EandTC Engg.
5	Lab view and simulink	MECH. Students
6	Workshop On Quad copter .	MECH. Students
7	Lokmat Aspire career fair	Students around Solapur district
8	Career Fair at Government polytechnic Solapur	Students around Solapur district
9	Civil department participated with stall in 'Sthapatya exhibition' Solapur	Citizens around Solapur

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?

As Institute is affiliated to Solapur University, Solapur.The University does not provide this flexibility at present.

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 programs and Institution's goals and objectives are integrated?

Additional efforts are made by the Institute to supplement the University's Curriculum to meet the goals and objectives of the Institution. To develop well qualified, globally accepted graduates for employment and entrepreneurship the Institute is active by

- Covering content beyond syllabus in theory subjects during class room teaching.
- Conducting experiments beyond syllabus in practical subjects.
- Conducting Remedial classes for slow learners.
- Arranging guest lectures.
- Organizing workshops and seminars.
- Conducting Soft Skill Programmes

The Institute ensures that the curriculum framed by the University is implemented in such a way that it reflects Vision and Mission of the Institute. For this purpose the Institute academic calendar is prepared in every semester with the active involvement of the Heads of all the departments.

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?

The institution can only enrich the curriculum by supplementing it with practical oriented teaching of basic concepts for F.E students and by extra Add – on courses for S. E., T. E., and B. E. students so that the students are benefited in the best possible manner.

- Apart from the academic activity the students are sent for the industrial visit to get the practical

sense of the education they are acquiring.

- The training and placement cell of the Institute regularly interacts with the HR managers of companies and organizes Seminars and workshops in order to meet the global market needs.

- To integrate the academic programs and institution's goals, the initiatives are take to

Suppliment the University's curriculum.

- Every department has its students association like
  - ➢ Association of Computer Engineering Students (ACES)
  - ➢ Mechanical Engineering Student Association (MESA)
  - ➢ Students of Electronics and Telecommunication Association (SETCOM)
  - ➢ Civil Engineering Students Association (CESA).

- These associations supplement the University curriculum by organizing Cocurricular activities which help to develop leadership and managerial skills in the students.

- The Institute is promoting self-learning capabilities among students by organizing project contests, robotics events, and seminars on latest technologies.

- Personal counseling is done at department level for motivating students to take nterdisciplinary projects.

- Every year technical event 'AGTECHFEST' is organized by the Institute where students can exhibit their own innovative ideas.

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?

Project groups consist of boys and girls.Technical resources are equally shared by boys and girls. Joint participation in cocurricular and extra curricular activities like paper presentation, paper publication, sports and cultural events etc is common practice.

The Institution takes the necessary initiatives for the growth and development of its Stakeholders.There are various committees in the institution to maintain the peace and harmony among the different class of the stakeholders.

Sangini for girl students: - For women empowerment Institute has been established women's forum 'Sangini'in 2015. Sangini team regularly organizes seminars on women empowerment, workshops on self protection, stress management etc.

Table 1.14:List programs arranged by 'Sangini'

Sr. no.	Name of the activity	Date
1	Women empowerment	09/03/2015
2	Self Health Awareness	15/07/2015
3	Women empowerment and Self protection	12/01/2016
4	Women health	07/10/2016
5	Women Empowerment - Understanding Equality	08/03/2017

- Mentors are assigned for a group of students for each semester in FE, SE, TE and BE classes. Mentors conduct meetings once in every month for their respective groups and sort out problems if any.

- Internal Complaint Committee:- This committee looks after the complaints of students if any.

- Anti-ragging:- Anti-ragging rules are displayed at entrance of both buildings, all departments, library and canteen.Institute establishes anti ragging committee every year and committee is active in maintaining peace and harmony in Institute.

- NSS Committee:- Institute has elected NSS committee members from students and coordinator from faculty of the Institute . Various programmes are organised by NSS committee as follows:-

1) Swacch Bharat Abhiyan:- All the faculty and students of the Institute actively participate in Swacch Bharat Abhiyan (IInd Sunday of October).

2) Departmental student associations with coordination of NSS arrange blood donation camps every year.

3) Some of the faculty teaches in orphanage every Sunday since 2014.

4) Departmental student associations with coordination of NSS frequently visit orphanages and donate books, teaching and playing aids.

5) NSS unit has organized Free Dental Camp by Pandit Deendayal Upadhyay Dental college on 5th Sept. 2014

6) NSS unit celebrated "Sadbhavana Day Pledge" on 20th Aug 2015 in Institute campus.

7) NSS unit continuously strive to spread environment awareness about the need for saving water, electricity and to make the earth a better place to live in.

- For Yoga and sports activities Institute has signed MoU with Vivekananda Kendra in 2015 which regularly organises Yoga camps in the Institute.

- Environmental Education:- Environmental education is included as a part of the second year curriculum of the University. Classes are regularly conducted by faculty as a part of curriculum.

- Human Rights:- The Institute has formed an Anti-ragging Committee to ensure a ragging free environment.

- ICT:- All faculty rooms are equipped with furniture, HOD rooms with furniture , desktop and printer.

- Wi-Fi connectivity is also available throughout the campus.

- Class rooms are equipped with LCD Projectors and LCD Screens, for effective teaching learning process.

- A public address system is available.

- Digital library facility

- Language laboratory.

- NPTEL Video lectures.

1.3.4. What are the various value-added courses/enrichment Programs offered to ensure holistic development of students? Moral and ethical values, employable and life skills, better career options,Community orientation.

- Moral and ethical values:- To inculcate the moral and ethical values of students, the NSS wing of the Institute engages the students in community development activities which motivate the students to take up the cause of Social Service. The Institute NSS team regularly visits surrounding areas and villages where people are made aware about various social, moral and ethical issues. The Students are also motivated by way of special lectures so as to instil moral and ethical values in them.

- Employable and life skills for employability communication skills play vital role. As a part of curriculum Institute has communication lab. To inculcate communication skills among students debate competitions, group discussions etc. are regularly conducted by respective faculty. For developing competency among the students they are also allotted different responsibilities in organizing various events and activities such as cultural programs, competitions, seminars, workshops etc. and this helps them to improve their team building and organizational skills.

- Better career options:- The institution has signed MoUs with various organisations recently and Institute conduct different value added certification courses such as CCNA, LINUX, Network Security, Automobile Design and CAD Development to bridge the gap between education and employment.

- Community orientation:-
  - ➢ The Institute makes students aware of their responsibility towards society.
  - ➢ Institute arranges expert lectures for career guidance and engineering admission process every year.
  - ➢ The institution has been creating JEE/MHCET awareness among students from all over Maharashtra since 2014-15. Along with this it also focus in career guidance as well as Centralised Admission Process (CAP) of DTE. Faculty of the Institute engage in counselling and guidance regarding CAP through out the year.

➢ Institute hosted (a)University level Avishkar Project competition and exhibition in 2010 (b) 18 th Annual National Convention of Maharashtra council of Education, Administration and Management.

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

The Institution collects feedback from the stakeholders like

- Mid semester and end semester feedbacks from students.

- Yearly Alumni feedback during alumni meets

- About project groups from project examiners appointed by Solapur University, Solapur.

    from recruiters of campus recruitments

- Parents and Employer's feedback from time to time.

- The senior faculty of each department suggest to the university to enrich curriculum in syllabus updating workshops conducted by Solapur University.

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

Institution has Academic Monitoring Committee to monitor the academic process regularly. The institution maintains an academic calendar where various meetings of all the levels of the institution are conducted to evaluate the academic activity.

- The institution has a very clear and transparent way to monitor and evaluate the quality of various enrichment Programmes initiated by it. The feedback in the form of interactions, discussions and suggestions are analysed by a specially constituted committee and a report is submitted to the Head of the Department. The Institution makes sure that the Programmes offered in the curriculum include contribution to National development, fostering global competencies among students, inculcating a value system among students, promoting the use of technology and quest for excellence. The Institute efforts to ensure that the curriculum bears a thrust on these core values include the initiative for Contribution to national development.

- The training and placement cell conducts aptitude tests, group discussions on their training programs to assess the effectiveness of training.

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 faculty members of the institution have represented and have contributed in the development of curriculum in various subjects.

1. Syllabus setting workshop for second year Mechanical engineering during A.Y.2013-14

2. Workshop on 'Teaching methodology and Plastic Engineering' during A.Y 2015-16

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 programs?

Yes, the Institute has a formal mechanism to obtain feedback from students and stakeholders.

- **Current Students Feedback**:

- Students feedback at least two times during every semester and once at the end of the course.

- Based on the continuous evaluation from the results of the students in tests and their feedback, bridge courses are added to the curriculum for enhancement of the same.

- **Faculty Feedback**: Faculty shares their experience and give feedback at the faculty meetings in departmental level and also at the Institute level general meeting. Such feedback is utilized greatly to enhance the curricular contents.

- **Parents' feedback**: Parents' meet is conducted every semester in the department and the feedback is sought from the parents and effectively utilized for the enrichment of the curriculum.

- **Alumni Feedback**: From year14-15 Institute organizes Alumni Meet in which feedback is collected and is gone through with a view to enhance the various aspects. Alumni feedback has been used to review and revise the learning outcomes.

1.4.3 How many new programs/courses were introduced by the institution during the last four years? What was the rationale for introducing new courses/programs? Any other relevant information regarding curricular aspects which the Institute would like toinclude.

Recognizing the need and in order to expand the horizon of offered courses in tune with the technological advancements; following are the list of new Programs /courses introduced by the institution during the last four years:

Table 1.15: List of new programs.

Sr. No	Branch	Modified (latest) intake	Year of Introduction
1	Civil Engineering (UG)	60	2010-11
2	Mechanical Engineering in (Manufacturing Process) (PG)	18	2012-13

The new courses/programs are introduced.

i)   To impart diversified knowledge to the society.

ii) To develop the manpower in the specialized streams of engineering.

iii) To encourage research and development.

iv) To develop the centre of excellence in related areas.

CRITERION II:
TEACHING - LEARNING AND
EVALUATION

CRITERION II: TEACHING - LEARNING AND EVALUATION

2.1 Student Enrollment and Profile

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

The Institute is a part of the Centralized Admission Process (CAP) of Directorate of Technical Education (DTE), Government of Maharashtra. This ensures total transparency in admission process. Admission notification is hosted by DTE, Maharashtra on their www.dte.org.in website. DTE has appointed/authorized the Institute as Application Receipt Centre (ARC) for on-line application process.

Publicity

Institute advertises the admission process in leading local, State and National level news papers, website www.agpit.edu.in and by appropriate media like hoardings, TV channels etc. Institute has its own admission cell to provide the information about the admission process to parents and candidates. Since academic year 2014-15 and 2015-16, admissions were based on Joint Entrance Examination (JEE) merit and H.S.C. score in physics, chemistry and mathematics (Minimum 150 marks for open category and 135 for other reserved categories).A composite score based on JEE and PCM (Merit number) is displayed by DTE, based on this admission process was carried out. Institute takes initiation in creating awareness among the students about JEE examination. Institute has organized JEE awareness camp at junior Institutes. Institutes faculty members had visited more than one hundred and ninety junior science colleges in Maharashtra and other states including Karnataka, Andhra Pradesh, Telangana etc to help the students about opting the engineering as a best career option, on-line form filling, and the steps/stages in ARC. For admission in engineering JEE are mandatory entrance examinations. Institute conducted awareness camps for the same.

For Direct Second Year Engineering admissions (DSE), the centralized process is available similar to the first year admissions, which is governed by DTE.

Transparency

The admission process for 80% of intake is governed and managed by the Centralized Admission Process (CAP), Govt. of Maharashtra. On-line counseling process and the whole

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process is fully transparent for everybody from students to the Institute authority.Students can fill up both the choice of the stream and the Institute, by on-line counseling process followed by online registration.Management takes initiation for giving admissions to the students who belong to economically backward class and also the weaker section of the society.

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 programs of the Institution.

The Institute participates in centralized admission process of DTE, Maharashtra State Government. It follows all admission rules, regulations and guidelines set up by the state government. Eligibility criteria for the selection of students for admission in different level of courses for different academic year are as given below.

In 2014-15, admissions were based on JEE merit and 12th score in physics, chemistry and mathematics. A composite score was displayed by DTE, based on this, admission process was carried out. CAP quota was 80 % and Management quota was 20 %. In academic year 2015-16, 65% seats based on CET merit, 15% seats based on JEE merit and 20% were allotted for management quota. From academic year 2016-17, there is no management quota and admissions are based on pure merit of the students in Centralized admission process by DTE.

Undergraduate program

- **65%** Students are admitted through Maharashtra State Common Entrance Exam. (MH-CET).
- **15%** Students are admitted through Joint Entrance Examination (JEE).
- **20%** Students of approved intake are admitted through Central Admission Process conducted by DTE, Maharashtra for Lateral Entry in 2nd year.

Post Graduate

The Selection Process for admission is based on the score in the national level Graduate Aptitude Test for Engineering (GATE).

2.1.3 Give the minimum and maximum percentage of marks for admission at entry level for each of the programs offered by the Institute and provide a comparison with other Institutes of the affiliating university within the city/district.

The minimum and maximum percentage of marks for admission at entry level for each of the programs offered by the Institute and a comparison with other Institutes of the affiliating university within the city/district is as shown on the next page.

Table 2.1: Minimum and Maximum CET marks of students

Sr. No.	Programs	Year of Admission	Minimum CET /JEE score of admitted students		Max. CET/JEE score of admitted students	
1	Civil Engineering		A	25	A	49
			C	22	C	43
2	Computer Engineering	2016-2017	A	39	A	85
			B	35	B	69
			C	33	C	65
	Electronics and telecommunication engineering		A	45	A	45
			B	36	B	37
			C	40	C	42
	Mechanical Engineering		A	06	A	42
			B	05	B	44
			C	07	C	43

* Marked values indicates composite score of 12[th]Science and JEE main Exam

A - A.G. Patil Institute of Technology Solapur

B - V. V. P. Institute of Engineering and Technology, Solapur

C- Bramhadevdada Mane Institute of Technology, Solapur

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?

Yes, the Institute analyses student profile in terms of PCM, JEE and CET/AIEEE marks this helps the Institute to understand the expectations of prospective students from different branches.

Role of the Institute: The Institute has set up an admission cell, which is responsible toreview the admission process and student profile annually. Institute reviews the ranks of students admitted as compared to previous years to know applicability of the students and the Institute. Institute adopts various methods like teaching the basics of science, mathematics and remedial coaching for needy students. Every year, English communication classes are arranged on Saturdays for students with rural background and for students from weaker sections. For first year students, there is regular communication to parents if a student is absent for a day or laboratory work. All such efforts have helped majority of the students to score good results, in turn helping in increasing confidence among them and

total number of placements in final year.

Through the review process many initiatives such as night study sessions, practice sessions, chapter wise tests, preliminary examinations, etc. are planned and conducted. With the result, the passing percentage at the first year is increased in the university exam for the past three years. Such initiatives have helped in bringing improvement of admitting students profiles.

Since Academic year 2014-15 it was decided to include one more working hour from 4.00 to 5.00 pm on every Saturday to enhance knowledge of F.E students. The goal of this lecture was to encourage students to express their views with confidence on different subjects.Along with the same, effective teaching learning methodology is adopted by the Institute and value added courses and awareness camps are conducted for welfare of students. The sample copy of lectures which were conducted as shown below

Table 2.2: Orientation programs for F. E. and D.S.E. students

Sr. No.	Date	Subject	Speaker
1	01/10/2016	Introduction to semester subjects, University Exam guidelines	Prof. R.B. Kulkarni, Asst. Professor
2	23/01/2016	Concentration and self motivation	Dr. P. N. Khatavkar, Psychatrist, Solapur
3	30/01/2016	Maths MCQ Tips	Prof. P.V.Vedula, Asst. Professor
4	06/02/2016	Motivational Stories, communication skill and language lab.	Mr. K. M. Bhatgunaki, Founder, Dream IAS, Solapur
5	13/02/2016	Shayari andShort stories	Mr. Jabbar Patel, Artist, Star Melodies, Mumbai
6	20/02/2016	Views of students on environmental issues	Prof. P.S. Dange, Asst. Prof. DYP, Pune
7	27/02/2016	Guidance for Scoring in EG	Prof. J. S.Mujawar, Asst. Professor
8	05/03/2016	Guidance for Scoring in BCE	Prof. P.S.Swami, Asst. Professor
9	12/03/2016	Social awareness	Prof. S.J.Ligade, HOD,E andTC Dept.
10	06/08/2016	Motivational video	Mr. N. V. Dhage, Motivational lecturer, Sangli.
11	13/08/2016	Personality Development	Dr.S.A. Patil, Principal
12	20/08/2016	Logic behind Programming	Prof.M.A.Khureshi, HOD, COMP. ENGG. Dept.
13	27/08/2016	Motivational stories	Mr. K. M. Bhatgunaki, Founder,

			Dream IAS Centre, Solapur ,
14	03/09/2016	Career in Civil Engineering	Prof. T.D Maslekar, HOD, Civil Dept.
15	10/09/2016	Career in Mechanical Engineering	Prof. S.B.Gadwal, HOD, Mechanical dept.
16	17/09/2016	Importance of soft skills	Prof. S.V. Patil, T. P. O.
17	24/09/2016	Career in Computer Engineering	Prof. A.K.Kannur, Asst. Professor

Contribution to Improvement of the process: Based on the outcome of the overall process, the Institutedecides the strategy viz. teaching process, extra lectures and orientation to improve the admission number.

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**

Admission process in the State is governed by Director Technical Education. Institute follows the rules, regulations and guidelines set up by state government body. It admits students of all the reserved categories along with SC, ST and OBC, women and economically weaker sections as per the government norms, rules, regulations and allotments.

Institute offers the admissions under the Tuition Fee Waiver Scheme (TFWS). Three seats per branch which is mainly developed for Economically Weaker Section of the society as allotted by the central admissions committee. There is special reservation for the candidates of J and K and government of India (Mizoram student) as per the norms.

Management takes initiation for giving admissions to the students belonging to economically backward and weaker section of the society. Students belonging to the above categories need additional support and the Institute adopts following strategies to increase/improve access.

• Institute has book bank facility for SC/ST students separately.

• For students facing learning problems as well as having personal issues, counseling is provided

to help them perform better by counseling by doctor and academicians.

- Ramps are available for easy access at appropriate place.

- Special care is taken to provide personal attention.

- The faculty is sensitized to the requirements of physically handicapped students during the classroom teaching and laboratory work.

- A special ramp is provided in the campus for physically handicapped students and also as per the Solapur university norms extra half time is provided in exam.

- There is a Women Grievance Cell headed by a lady faculty and frequently meetings are conducted and also a complaint box is available.

- Institute has about 38 % lady teachers who interact with girl students.

- A grievance cell is established for girls and faculty members.

- "Sangini" is a women welfare forum through which diffrenet activities and programs are conducted for women empowerement.

- Support is extended to students coming from economically weaker sections through Earn and Learn facility initiated by the Institute.

2.1.6 Provide the following details for various programs 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.

Table 2.3:List of programs offered by the Institute

Sr. No	Name of Program	Year	No. of students admitted	
			FE	DSE
1	Mechanical Engineering	2012-13	69	62
		2013-14	17	76
		2014-15	14	64
		2015-16	15	19
		2016-17	07	59
2	Computer Engineering	2012-13	26	08
		2013-14	11	37
		2014-15	10	61
		2015-16	10	67
		2016-17	16	68
3	Electronics and Telecommunication Engineering	2012-13	22	35
		2013-14	08	34
		2014-15	06	27
		2015-16	06	10
		2016-17	03	06
4	Information Technology	2012-13	15	09
		2013-14	---	10
		2014-15	---	---

		2015-16	---	---
5	Civil Engineering	2012-13	26	08
		2013-14	11	37
		2014-15	10	61
		2015-16	10	67
		2016-17	06	68
6	M. E. Mechanical Engineering	2012-13	18	
		2013-14	18	
		2014-15	08	
		2015-16	06	
		2016-17	01	

The reasons for the increase or decrease in admissions are as follows:

- Increase in the number of Institutes coming up every year and increase in intake for various programs in and around Solapur and in Maharashtra.

- Global and National employment scenarios.

Action initiated for improvement

- Accreditation by NAAC

- Counseling before and during admission process.

- Providing better Training and Placement activities.

- Conducting Value Added Courses in consultation with Industry.

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 caters to the needs of differently-abled students as per the requirements of the individual student. In addition, the Institute makes special arrangements for those students in University examination as per the University guidelines. The Institute is fullyadhering to government policies regarding the needs of differently-abled students. The facilities for ease

Welcome address with HODs and TPO

of mobility such as ramps, hand railings, wheel chairs etc. are provided. Wherever required, scribe is provided to the students to assist in writing examination. Extension in time is given to students for completion of the written exams by 30 min. in case of 3 hours exam and 45 min. in case of 4

hours exam as per norms.

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

Yes, The Common Entrance Test (CET) is conducted by DTE, Government of Maharashtra for admission to the First Year of Engineering. In addition, the admission process is carried out through JEE quota. Admission process from 2016-17 is made more convenient in students respect with by addition of Freeze, Slide and Float options.

Considering these scores, the Institute assesses the student's needs in following ways is arranged to make the students aware about skills and knowledge requirement of the programs.

The qualifying marks and overall ranking in the merit list of the students gives an idea about the caliber of the students for entry-level analysis.

Institute organizes orientation Programs for newly admitted students and their parents to help them understand the engineering curriculum.

Students are also categorized according to their medium of instructions (English or regional language) and area (Urban or rural) for ease of effective teaching and communication.

Senior teachers handling first year classes are allotted students for mentoring. The concern teacher maintains a register, covering entire background of students that are at different academic levels.

Continuous contact with parents, particularly in the irregular cases.

Feedback and advice of parents is taken which has become useful to improve subsequent year planning.

Parents meet

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 programs of their choice?

Based on the identification of the needs of the students in terms of knowledge and skills, efforts are made by the Institution in the following manner to bridge the knowledge gap.

• The faculty organizes extra lectures.

- Mentors are appointed for every class to take special care to monitor, guide and help the students and by conducting periodic class tutorials and home assignments. Classroom notes to facilitate slow learners.

- Practice sessions are taken after the Institute hours and one to one attention is given to such students.

- Counseling facility is made available to students to motivate them by bringing a change in their attitude towards learning.

- Chapter wise tests (class tests), Unit tests and preliminary tests are used as a tool for continuous evaluation of the students and corrective measures are employed based on their performance in such tests.

- For the students with poor performance in the final examinations, special remedial classes are conducted for improving their performance. Parents of such students are also counseled to ensure support to the student.

- Faculty encourages students to prepare models to understand the concept

Add-on learning

Add-on programs are conducted in the areas like soft skills and communication skills. Communication skills especially for first year students and language lab for all the students are introduced in the curriculum. Students and faculty members are encouraged to use NPTEL, Virtual lab, Webinar facilities. After mapping the gap of the newly enrolled students in their respective domain the following Add-on courses are conducted by the respective departments.

- Experts from the industriesand research are invited for giving lectures to bridge the knowledge gap of the enrolled students.

- Special training to the students is provided by conducting add-on courses to minimize the knowledge gap of the students during the regular class itself. Faculty members provide extra efforts to the students by giving information on contents beyond the syllabus to enrich their knowledge.

- Useful practical training is given to the students during the laboratory periods itself.

- Additional laboratory exercises such as practical assignments are planned accordingly.

- Seminars by students are conducted for the students in the evening after regular class timings.

- Industrial visits are arranged for the students every year for all departments to build their

strong practical knowledge to meet the future needs of the industries.

- To bridge the knowledge gap of the students, various add-on courses are conducted.
- In-plant trainings are provided to students to fill the gap between industry and academics.
- Special training is given to the students on the recent needs of the industries on domain.

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

The Institute does not discriminate the students and its staff on the basis of their gender. Equal opportunities are given to both. It can be seen nearly 38% of the faculty and 33% of the students are females. Mechanisms are developed to address their grievances in case of any.

The institution has set up following cells to cater to the problems and issues related to students:

Moraya Festival

- Grievance Redressal Committee
- Anti ragging Committee
- Hostel and mess committee
- NSS committee
- Internal complaint committee

Others:

- Providing equal opportunities for both genders of faculty members and students in different committees and activities.
- For girl students security is provided in the campus.
- The institution never discriminates on gender and religious basis.
- Academic help is provided for the benefit of the economically weaker section of students.
- Tree plantation activity and environment awareness program is conducted.
- Blood donation camp is organized.
- Institute organizes Women's Day, woman empowerment lectures
- Institute NSS Unit is actively participating in every social cause like awareness about natural resources, blood donation, plantation, and different programs related with road safety, meditation, yoga, with are useful for students and society.

Event :Initiated by women for women- under the banner of 'Sangini', women cell in 2015-16	Institute donated Relief Fund to Jammu Kashmir flood affected people through NSS to District Collector, Solapur.Academic year: 2015-16

Magazine AGglomeration

Institutions various activities like cultural, technical, national level events, sports activities, orientation programs and workshops organized and the various achievements are made available through the magazine every year. All of these are reflected through a media called AGglomeration- Annual magazine of the Institute.

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

The performance in the examinations, regularity in attendance, class room discussion, participation in group discussion, showing interest in advanced learning, talent in innovation and his aptitude help to identify the advanced learner.

- Institute provides book bank facility and additional two books for technical and other competitive examinations for first three topper students. Institute conducts meeting to seek feedback of such students and decisions are taken based on their suggestions.
  - ➢ GATE entrance books are issued from Second Year
  - ➢ GATE classes are organized for students from third year
  - ➢ Library and laboratory hours are extended.
  - ➢ Various competitions, National level technical events are organized by the Institute.

- Students are motivated to take part in summer training programs / workshops at various leading research Institutes and laboratories, as well as industries. Financial support is extended to students who present/publish papers in conferences and journals.

- Resource persons from industries and academic institution are invited to deliver lectures on the advanced topics for the benefit of the students.

- Meritorious prizes are given to students based on performance in the examinations to further

encourage the students.

- Technical help and assistance is provided for Sponsored projects, Mini projects, Seminars on recent trends, Workshops, Paper Presentations, GATE, CAT, GRE, and TOEFL, IAS / IES and other competitive exam.

- Institute motivates students to develop through Software skills, Field works, Case studies, Project competition, Entrepreneurship development etc.

- Career guidance cell, Industrial training and MOUs with Industry and Institute

AGTechFest 2k17 National level Technical Event

2.2.6 How does the Institute collect, analyze and use the data and information on the academic performance (through the programs 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 data is collected through university result analysis, unit test performance and preliminary examinations.

- The Institute has a good mentoring system, where a group of fifteen to twenty students are assigned to a faculty. The mentor monitors their performance, advises them, informs the parents about their progress through report card and, if necessary, through telephonic conversations.

- The socially and economically disadvantaged students are supported with scholarships, fee reimbursement and concession facilities as per government rules.

The following measures are taken for the students -

- Provision of Earn and learn scheme for students

- AGPIT film society organizes motivational videos by international eminent speakers as Sandeep Maheshwari, Tony Robbins etc.

- Provision of scholarship (by the Institute) for economically backward students.

- Special classes and tests, retests for the needy students.

- For slow learners the Institute arranges remedial classes where individual attention is given to each student.

- Regular parents meet.

- Scholarships for disadvantaged section of the society, especially a SC/ST, OBC, Minority, EBC as per Government rules.

- Office superintendent provides guidance about Social Welfare Schemes.

- Tuition Fee Waiver Scheme (TFWS) for economically backward students including women and handicapped students, every year.

- The Institute has permitted a few student for paying the fees in installments

- Few of the students are allowed with a concession in the total fees.

- The Institute has offered 100% concession in course fees and hostel fees in special cases.

2.3 Teaching-Learning Process

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

- Academic year starts one week prior to the schedule provided by Solapur University, Solapur for revision of syllabus completed in previous year.

- The head of department conducts a meeting of faculty before the semesters begins and discuss the syllabus of the program and their subject preferences. Work load distribution is made accordingly. Before the beginning of Academic Year, well planned academic calendar is prepared by taking inputs from students, other stake holders, faculty and administration. Such prepared calendar has provisions and schedules for the following

- In a semester, a maximum emphasis is given to teaching so that complete syllabus can be ensured for both theory and practical.

- Teaching plan of the subjects is in coordination with the academic calendar by the faculty members.

- Dates of conduction of unit tests, lab tests and result declaration are a part of academic calendar.

- Industrial visits and other curricular activities including the R and D events, technical events, and professional chapter events are planned at the beginning of the academic year.

- By optimizing the teaching period adequate preparatory leave is also provided to the students.

- Various committees are constituted for executing, monitoring and ensuring the teaching, learning and evaluation schedules and coordinators are appointed for viz. class coordinators, time-table in-charge,industrial visit coordinator, departmental grievance redressal committee, etc.

- Weekly departmental meetings are taken to review the teaching, learning and evaluation schedules.

- Evaluation

The details of planning and organizing teaching, learning and evaluation schemes are evident from the following flow-chart-
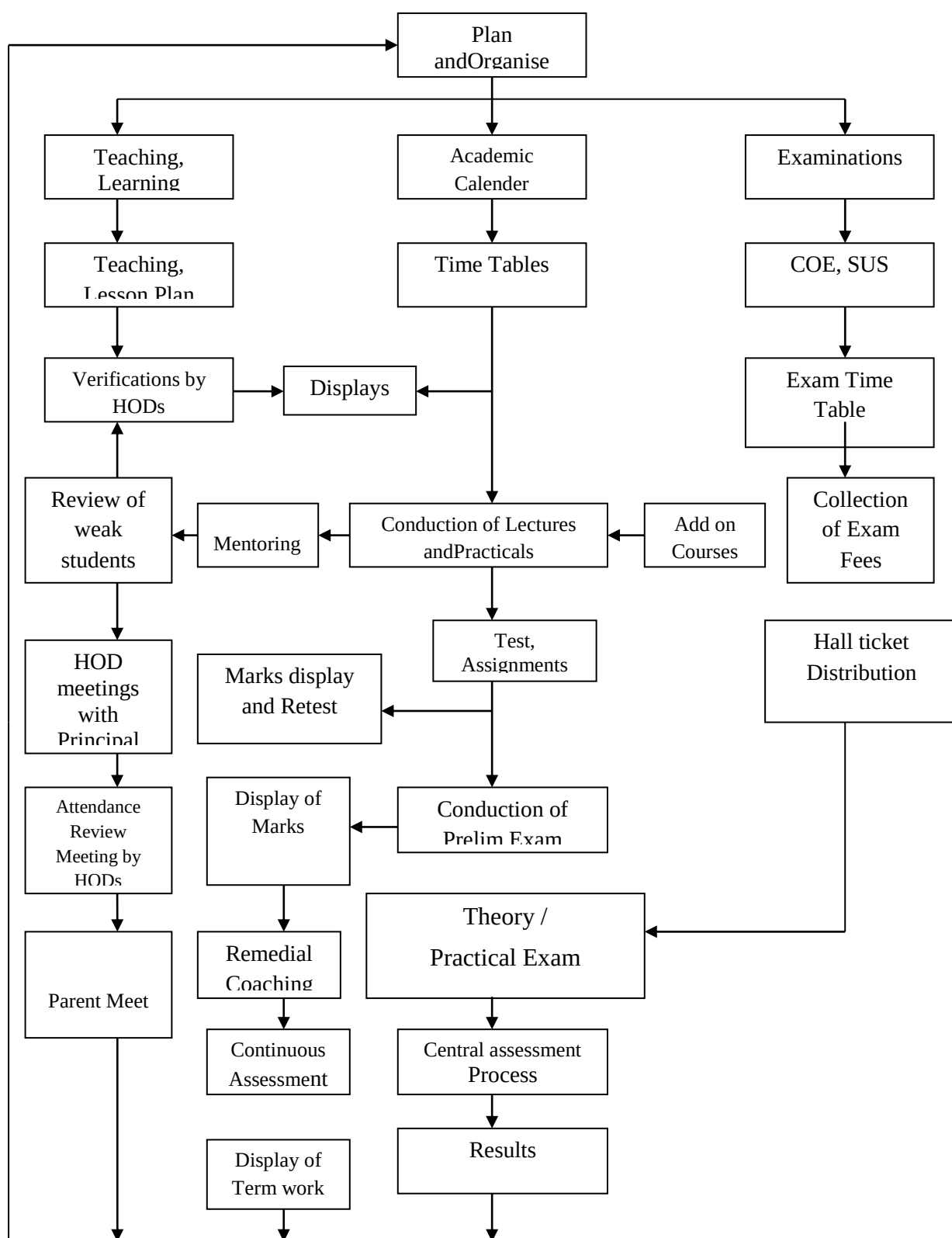
Figure2.1 :Flow diagramof work in planning,organizing teaching, learning and evaluation

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

The Institute has setup an IQAC in year 2015, it is chaired by the Principal. Weekly meetings are conducted to take a review of the teaching-learning process. IQAC will involve in the following functions

- Development and application of quality benchmarks/parameters for various academic activities of the institution.

- Facilitating the creation of a learner-centric environment conducive to quality education and faculty maturation to adopt the required knowledge and technology for participatory teaching and learning process.

- Arrangement for feedback response from students, parents and other stakeholders on quality-related institutional processes.

- Dissemination of information on various quality parameters of higher education.

- Organization of inter and intra institutional workshops, seminars on quality related themes and promotion of quality circles.

Table 2.4: Members of IQAC

Internal Quality Assurance Cell	
Chairperson :	Dr. S.A. Patil
Administrative Officers :	Mr. G.N. Kulkarni Mr. A.M. Savalgi
Teaching Staff :	Prof. V. V. Potdar Prof. M.A. Khureshi Prof. T.D. Maslekar Prof. S.B. Gadwal Prof. R. B. Kulkarni Prof. G. R. Deshpande Prof. S.J. Ligade Prof. A.K. Kannur
Management :	Shri S.A. Patil
Students and Alumni:	Ms. Afreen Shaikh Mr.Abdul Husain Rangwala Mr. Suhas Admane Mr. Ganesh Bhosale
Industrialist :	Mr. Kashinath Ghogare Mr. Chetan Shah
Director :	Prof. R. V. Darekar
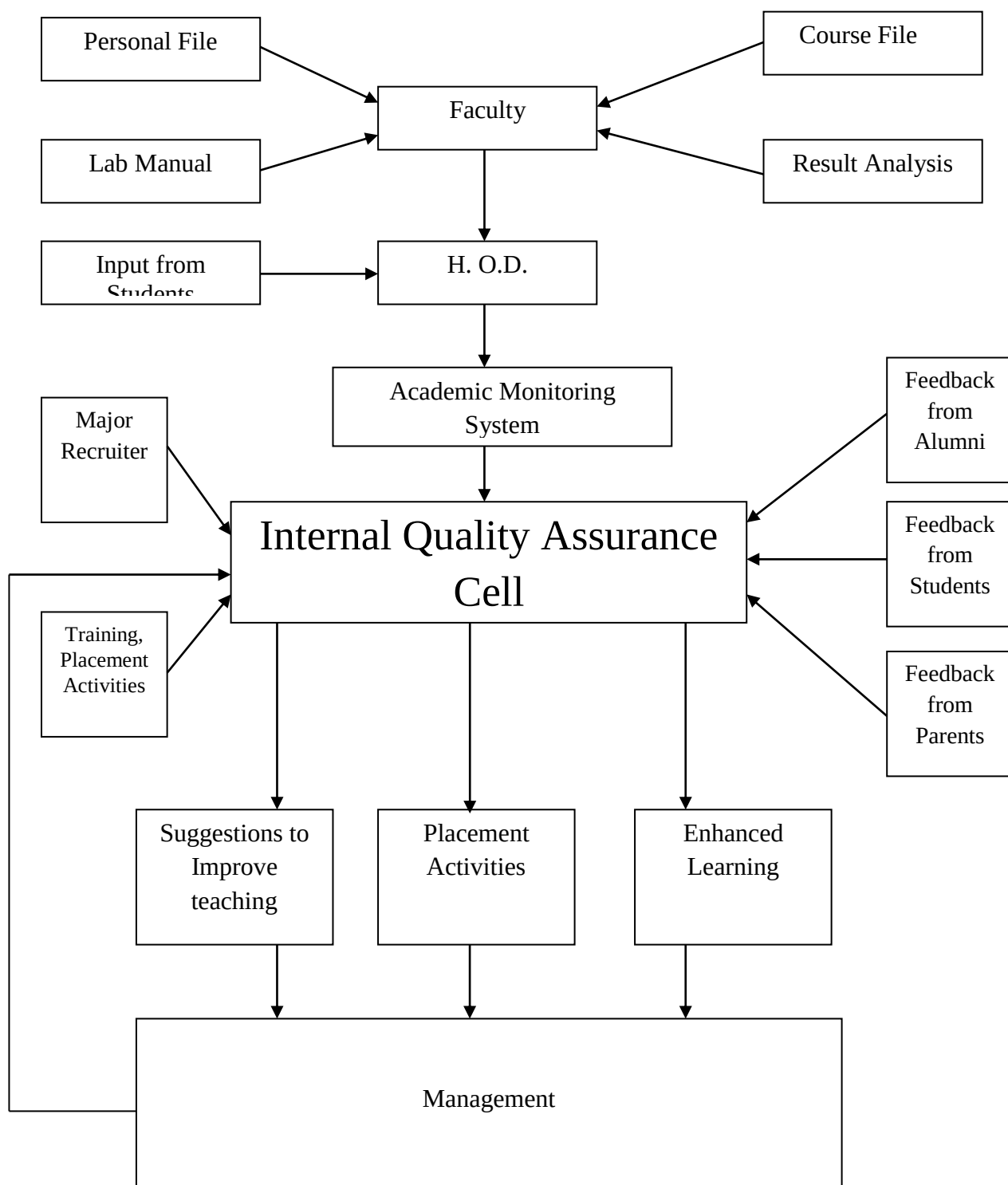
Figure2.2: Flow diagram of Work flow of IQAC Cell

2.3.3 How learning is 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?

Institute organizes technical aptitude test at the entry level to judge the aptitude of the students, and

then each department takes following measures to make learning more student-centric

- For each subject a question bank is provided and unit wise tests are conducted.
- For each batch assignment is given and it has been evaluated in the next practical hour.
- Old university question paper bank is provided to each student.
- PPT, video and animation based learning are incorporated in teaching process to understand each subject.
- Expert lecturers from industries, academics, research are organized by each department.
- A language lab is utilized by all classes and soft skill programs are organized at Institute level for each student.
- Industrial visits are organized by subject teacher to understand the subject.
- Wi-Fi facility is available in the campus.
- Digital library facility is available at each department.
- T and P organizes personality development programs.
- Institute arranges NPTEL series of lectures.
- Students select topics based on their interest and give the presentation in the class room during zero hours / tutorial time.
- Add on courses are organized by different departments based on the need of the subject.
- Frequent aptitude test and technical quiz are organized by the departments.
- Inter collegiate events are organized to harness the potential of the students.

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?

Institute is committed to make the student life long learner. The following measures are taken to nurture critical thinking, creativity and scientific temper among the students

- Creativity is nurtured through the co-curricular and extra-curricular activities; technical, non–technical and literary events are a part of the academic calendar and are implemented meticulously.
- Students who organize and participate in such events will get opportunities to exhibit and improve their creativity.
- Institute organizes AGTechfest a national level technical event every year and provokes the students to participate in the same and in the other institutions too.
- Students are encouraged to get involved in industry sponsored projects, to write a technical paper on their project and to write a technical article in the Institute magazine.

- Institute organizes entrepreneurship development programs for students.

- MoU has been signed with the training Institutes and Industries. .

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

- The Institute has licensed softwares as per the requirement of all the departments.

- Computers with internet facility is available in all the departments and the entire campus is connected with high speed Wi-Fi facility.

- Use of multi-media projectors, Free and open educational resources, power point presentation, Working models, charts and demonstration experiments.

- E – Learning material is kept in individual department and in digital library.

- NPTEL lectures are made available to the students. In NPTEL system there is collection of Video Lectures for different engineering streams and subjects, available on intranet.

- MOODLE server is established for Learning Management System (LMS) and conduction of tests viz. GATE, Aptitude tests etc.

- Communication Lab is equipped with LCD projectors, DVD players, computers and interactive CDs that are used for the screening of documentaries and information visuals setup with an aim of equipping the learners of English with a good command of the language for communication purposes.

- Language laboratory for communication skill development for higher classes also.

- The literature of professional society is made available to students as the entire faculties are members of professional bodies like ISTE, SAE, IE and IEEE etc.

- Department wise LCD projectors are made available for effective teaching.

- Awareness regarding the NPTEL, MOODLE, Journals available is done through notices and sessions conducted for students and faculties.

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 Institute provides exposure to students and faculty members for obtaining advanced level of knowledge and skills.

- Every department organizes guest lectures, expert lectures of eminent professionals and

academicians.

- Institute conducts and deputes the faculty for Seminars, Conferences and Workshops.

- Students are motivated to participate in training programs and competitions to enhance their professional skills.

- Institute has the student's forum in each department (MESA, CESA, SETCOM, ACES) which organizes the events to expose the students for advanced level of technology.

- Institute deputes the faculty for continuous learning programs, academic programs, conferences, workshops etc. Institute organizes the talk for other faculty members by the faculty who has attended the program. Institute takes the feedback from the faculty member and plans the event for next academic year.

- Institutes organize National Conferences for different Programs and also have planned for International conferences.

- Institute organizes the paper presentation, project competitions, expert lectures.

2.3.7 Detail (process and the number of students \benefitted) on the academic, personal and psycho-social support and guidance services (professional counseling /mentoring/ academic advise) provided to students?

Details of the process and the academic, personal and psycho-social support and guidance services provided by the Institute-

- A group of 15-20 students are allotted to one teacher as a mentor.

- Every week, students of the batch spend about an hour with the mentor who guides the students on all the fronts and makes the students get involved in activities for their development.

- Each class is appointed with a class coordinator (CC) from teaching staff.

- CC acts as a friend and guide to the students.

- CC keeps track of the academic performance of the students and send the progress report of the students to the parents for all internal assessments and also end semester assessment.

- CC also monitor the attendance of the students in their class. If any student lags or shows deviation in his/her academic and attendance, the students will be counseled and appropriate actions are initiated.

- Students who require personal guidance approach the CC for assistance to overcome their difficulties.

- T and P cell does professional counseling for final year students, as TPO is having faculty co coordinators from each department.

- HOD's help in counseling, psychological guidance and advise to students about competitive examinations and career building.
- NSS activity spreads the social and ethical awareness among student. It also provides psycho-social support.

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 faulty to adopt new and innovative approaches and the impact of such innovative practices on student learning?

Different innovative teaching approaches/ methods are adopted by the faculty during the last four years. Few of the examples are teaching models, video lectures and presentations to deliver the content in the syllabus effectively. For conceptual understanding of the subject, special projects are given to students.

Efforts made by the institution:

- Institute deputes the faculty for teaching learning programs like WIPRO Mission 10X for Improvement in teaching, IUCEE Teacher Academy membership and IIT remote centre coaching for research and development.
- Institute encorouges faculties for attending national and international conferences and are provided with financial assistance.
- Institute makes arrangement to telecast special Webinars on the related topics.

Impact of innovative practices on student learning:

- Learning process have became increasingly personalized.
- It have enabled students to develop and realize their personal potential.
- Learning process helps the learners to not only enjoy learning, but acquire skills that empower them to actively engage in the development of their personal skills and competences and improve their performance and achievement

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

- Teacher uses the library resources like text books, reference books education CDs, free downloads available through net, NPTEL videos, presentations etc. to develop the teaching material.
- Teacher takes the help of various library materials to decide to make the students comprehend the topics in the curriculum which the students find difficult.
- Students get the books issued for one week. Also they have access to reference section and

digital library. They can study; prepare seminars, papers and projects using the library resources. News papers and other branch related magazines are made available for students to get aware with current trends affairs.

Table 2.5: Particulars of journals and books

Sr. No.	Particulars	Qty.	Sr. No.	Particulars	Qty.
1	Total Volumes	20461		**JOURNALS (UG and PG)**	
2	Title	2885	1	National	29
	DONATED BOOKS		2	International	03
1	Total Books	385	3	Periodicals	05
2	Titles	212	4	Total Journals	37
			5	E-journal (Delnet)	296
			6	Newspaper	12

- Students can avail the additional books and references as per their need to study the regular subject in curriculum, project work, paper presentation, seminars etc.
- Students and faculty refer to UG and PG project reports, Research Journals, Proceedings for development of study material, projects and seminars.
- Students use tutorial offered by renowned publishers to understand the topic in depth.
- Students are encouraged by faculty to search and study topics beyond the syllabi.

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.

Yes, for very few of the times, due to natural calamities heavy summer or famine late admissions, Institute extends the teaching hours to make up for the academics. Additional periods are planned in the time table to overcome the challenge.

Teaching plans are prepared in view of the ability of the students and as and when needed they are modified. Also, the individual faculty plan depends upon individual perfection and capacity; it may not match with the academic calendar and hours by University. So it cannot be followed totally. Time slots are given for all subjects as per the structure prescribed by University. But certain subjects need lesser or more time. Late admission schedule of direct second year makes it difficult for these students to cope up the complete syllabus. However special coaching is provided to these students. Course material prepared by subject incharges is provided to speed up learning process.

Efforts to overcome the challenges

- Institute observes some holidays as working days and make up the academics.
- Additional lectures are adjusted in time table for difficult subjects.
- Teachers arrange extra lectures as per the requirement and convenience.
- Extra slots are made available in time-table during zero hours for typical subjects like Engineering Mathematics, Applied Mechanics, Basic ElectricalEngineering, etc.
- Senior faculty from renowned Institutes and industries are invited to deliver guest lectures.

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

- Academic calendar and time table are prepared well before the start of the session every year.

- All the teachers are allocated the subject to be taught well in advance and they prepare a teaching

  plan for that subject before the commencement of the session.

- Course file of individual faculty containing study material, assignments is evaluated by IQAC.

- Institute evaluates the papers and projects prepared by the students

- Class coordinator meetings are conducted twice in a month to discuss the effectiveness of the

  teaching-learning process.

- Classes are engaged and monitored regularly.

- Regular monitoring of the academic progress is done by taking a review in the meetings with

  HODs.

- Unit tests, assignments, preliminary exam, viva etc are conducted on regular intervals. The results are analyzed to improve teaching learning process.

- Further, university results are analyzed with respect to percentage of score in respective subjects. Feed-back from stake holders is taken and suggestions are implemented after the discussion and decisionby academic committee.

2.4 Teacher Quality

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

The details of the qualified and competent teachers in the Institute:-

Table 2.6: Details of qualified teachers

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent teachers							
D.Sc./D.Litt.							
Ph.D.	01			01			
M.Phil.							
PG	01		04	01	21	22	
Temporary teachers							
Ph.D.							
M.Phil.							
PG							
Part-time teachers							
Ph.D.							
M.Phil.							
PG							

Recruitment Strategies

The Institute recruitment policy consisting industrial experts of all fields is intended to provide guidelines and policy framework useful for the faculty search process, developing position announcements, interviewing and evaluating candidates and making suitable offers. In this process, advertising in print media for faculty recruitment to ensure large number of candidates apply for faculty recruitment program. Instituteidentifies potential candidates who are driven by good experience and support a diverse learning environment. The following process is adopted to recruit qualified and suitable faculty members:

- Search through publications, seminars and conferences
- Advertisements in print media
- Advertisement on Institute website.
- Personal contacts
- References
- Visiting faculties
- **Screening:**

Application collected from different sources and segregated as per category and experience.

Potential candidates are identified by the Directors/ Principal/Dean. Invitation for interview is send individually to all candidates through email and physical letter.

3. Presentation and Interview

The demo lectures of the applicants are conducted in presence of students in classroom. Interviews of all candidates are conducted in-front of senior faculties/ experts. The senior faculties/experts give their feedback in a prescribed format.

4. Appointment letters

An appointment letter is issued to selected candidate based on recommendation of the selection panel. The selected candidate will sign and return the duplicate copy indicating their acceptance of the offer of the appointment and the date of joining.

Retention strategies

- Pay scale as per 6th Pay Commission is provided to faculty members.

- Financial incentives are given to the faculty members for participation in research activities and also for publication in national and international journals and conferences.

- Provide accommodation with minimal rent upon request.

- Financial support is given to the faculty members for enhancing the skills in various fields by organizing and participating in different programs and workshops.

- The Institute has a well structures promotional policy, Leave Policy to retain best faculties.

- Awarding Best Teacher for outstanding faculties by providing appreciation certificates and cash incentives.

- Providing Maternity leaves for lady faculty members as and when needed.

- Policy for annual faculty appraisal based on student's feedback and teacher's performance.

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

Experts in emerging area are invited as guest faculty for various courses where add on learning is required.

The visiting faculty serves the purposes as -

- To teach add on courses to students

- To train faculty members on emerging technologies.

- Initiatives are taken under Digital India program for creating digital awareness among students

and faculties through e-learning, use of information, communication technology, e-commerce use of online resources etc.

- Institute extends the services of retired faculty to get benefit of their expertise.
- Necessary books and journals in thrust areas are identified, procured and made available in the library on request of the teachers.

In last three years, the Institute has invited the visiting faculty in the following fields

.**Table 2.7: Expert lectures for the students**

Sr. No.	Dept.	Name of Resource person	Area of specialization	Aca. year	Participants
1.	Mechanical Engineering	Mr R.N.,Kulkarni Trainer, Indo German tool room design.	Indo-Germen tool room	2011- 12	B.E
2.		Prof. A.V.Deshmukh., Asso. Prof., WIT, Solapur	3D Printing	2013-14	T.E, B.E
3.		Prof. U.A. Ankulgi, Asst. Prof. MS. Bidve College of Engg, Latur	Vibration	2012-13	S.E
4.		Prof. K.H. Jatkar HOD, Mech Deptt., WIT, Solapur	Element characterization	2011-12	B.E
5.		Prof.Avinash Pede, Asst. Prof. M. S. Bidve College of Engg, Latur	Isometric scale template	2014-15	F.E
6.		Prof.A. V.Gokhale Asso. Prof., MIT, Pune	Variable compr. ignition	2014-15	B.E
7.		Prof. P.P. Mitragotri Asso. Prof., WIT, Solapur	Trunnion fixture design	2015-16	S.E, T.E
8.		Prof. S.R. Tandale, Asst. Prof. MS. Bidve College of Engg, Latur	C programming (Aptitude)	2015-16	S.E
9.		Prof.D.V. Joshi, Asso. Prof., WIT, Solapur	LPP application	2015-16	B.E
10.		Prof. P. R. Kulkarni, Asso. Prof., WIT, Solapur	Applied mechanics	2016-17	F.E
11	Electronics and Telecomm. Engineering	Mr.Ramesh K. Jakati, Senior Scientist in BARC, Mumbai	Micro controller	2012-13	S.E, T.E
12		Dr.S.T.Patil, VIT, Pune	Communication Systems	2012-13	S.E, T.E
13		Dr. Aditya Abhyankar, VIT, Pune	Image Processing	2014-15	T.E
14		Mr.RameshK.Jakati, Senior Scientist in BARC, Mumbai	Signal and Systems	2015-16	S.E, T.E
15		Dr.A.B. Gambhire, Vice President Marathi VidnyanParishad, Solapur	Recent Trades in Electronics	2015-16	B. E.
16		Prof.H. V. Kulkarni, Asst. Prof., SKN Sinhgad College,Pune	Microcontrollers	2016-17	T. E.
17		Prof.P. C. Dhage, Asst. Prof.,MIT, Pune	Embedded systems	2016-17	B.E.

Sr. No.	Deptt	Name of Resource person	Area of specialization	Aca.year	Participants
18	Civil Engineering	Er. Kumbhar Sachin, Exe. Engineer, State Govt, Solapur	Competitive examsin civil Engg.	2014-15	B. E.
19		Mr. Ritesh Khaire andVijay Bamanalli, H. R. Manager, OMTMT, Solapur	Manufacturing of steel bars	2014-15	T. E. and B. E.
20		Er. Sunil S. Furde, Former president CREDAI, Solapur	Qualities for Good Entrepreneur	2015-16	All
21		Er. Chetan Loni, Project Manager,Alacrity const. pvt.Ltd., Solapur	Selection criterion of Civil MNC companies	2015-16	B. E.
22		Er. Shrikant Pathak, H.R. of Rohan Builders, Satara	Industry Institute Interaction	2015-16	S. E. and T. E.
23		Er. Deepak D. Maslekar Phd, Research Scholar, IIT Bombay	Structural Mechanics	2015-16	T. E.
24		Er. Kore P.N. Assistant Engineer-I, PWD, Maharashtra	Preparation of MPSC Examination	2016-17	B. E.
25		Mr. Dhanajay Suryavanshi, Yoga Teacher,Solapur	Health and Yoga	2016-17	All
26		Er. Deepak D. Maslekar Ph.D*, Research Scholar, IIT Bombay	Fluid Mechanics	2016-17	S. E.
27	Computer Engineering and Info. Technology	Mr. Patil, MD, JavaPatil, Kolhapur	Java Technology	2013-14	TE, BE Comp/IT
28		Mr. Sumeet Joshi, MD, Techstar Technology, Pune	Placement Awareness	2013-14	BE- BE Comp. /IT
29		Mr. Paresh Degaokar, Deputy Director, NASSCOM, Mumbai	IT Industry Today and Beyond	2014-15	Compengg. /IT
30		Mr. Ashutosh Sathe, Tibco Associate Consultant, Pune	Hadoop Technology	2014-15	BE- BE Comp. /IT
31		Mr. Chandrakant Sharma, CEO, TMC, Mumbai	CRT	2015-16	BE- BE Comp. /IT
32		Mr. Shah, CEO, Consumer Society of India, Mumbai	Consumer Awareness	2015-16	SE, TE, BE- BE Comp
33		Ms. Sneha Kurri, World Vision Solution, Hyderabad	Awareness C, C++	2016-17	SE- BE Comp.

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

- Staff development programs

- Mission 10X

- Mission 10X advanced

- FDP by Dr. Y. S. Rao and Prof. Satish Mane, VJTI, Mumbai on PLC and Automation

- Faculty Training programs are organized by the Institute to empower the use of various tools andtechnology for improved teaching learning process.

Table 2.8:Participants for staff development programs

Academic and Staff Development Programs	Number of Staff members nominated			
Faculty development Programs	2015-16	2014-15	2013-14	2012-13
	12	10	11	13

Table 2.9:Participants for workshops / seminars

No. of Invited Resource persons in Workshop / Seminars	No. of Staff participated in Workshop / Seminar	No. of staff organised Workshop / Seminars
10	46	34

Faculty Development program on PLC and Robotics through IEI, by Dr. Y. S. Rao and Prof S. T. Mane in A.Y2015-16

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 programs industrial engagement etc.)

The Institute and its Local Management Committee have played a very supportive role and motivated teachers to recharge, participate in orientation and refresher courses as well as in research activities, publish and present research and other academic endeavors.

The policies of the management to train and recharge the faculty

- Depute teachers for orientation, refresher and short-term training programs, which are necessary for career advancement schemes

- Motivate teachers to participate in workshops for revised curricula and upgrade their skills

- Encourage teachers to participate in seminars and conferences to expand their knowledge base and domain related expertise

- Provide opportunities to teachers to learn new technologies and ICT in teaching-learning.

 This is possible through following measures:

- Provide seed money to undertake short term research projects.

- Orient teachers to do research by making them aware about funding agencies for research, help them in writing and process research proposals, and submit it to funding agencies.

- Ensure optimum utilization of funding obtained under research schemes and ensure timely submission of utilization to the funding agency.

- Grant study/special leave for participating in research programs, industry engagement and exchange programs for sharing expertise at Universities/Institutes in the countryand abroad.

2.4.5 Give the number of faculty who received awards / recognition at the state, national and international level for excellence in teaching during the last four years. Enunciate how the culture and environment contributed to such performance/achievement of the faculty.

The management support and institutional culture have contributed for the excellence in teaching and similar achievements. The inspiration of the achievement is boosting the faculties to continue the same in nearby future. Following are the faculties who have received awards from different organizations.

Table 2.10:Awards / recognitions of the Management and faculties

Sr. No.	Name of the faculty	Designation	Award	Awarded by / Organisation	Date
1.	Hon. Shri. A. G. Patil	Chairman, Shanti Education Society, Solapur	**Udyog Ratan Award**	Governer of Maharashtra,Citizen Integration Peace Society, New Delhi	17/01/ 2010

2.	Dr. S. P. Kallurkar	Former Principal	**Best Principal award**	International Instituteofeducation and Mgmt, NewDelhi	23/01 /2011
3.	Dr. S.A. Patil	Principal	**Best teacher award**	Lion's club, Solapur twin city	05/09 /2015
4.	Prof. V. V.Potdar	Vice Principal	**Dronacharya Adarsh Shikshak Puraskar**	Vice Chanceller, Solapur University, Solapur	24/02/ 2010
5.	Prof.V. N. Jokare	Asst. Professor	**Best teacher award**	Vice Chanceller, SolapurUniversity, Solapur	24/02/ 2010

2.4.6 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?

The Institute has established a mechanism for taking feedback on teaching. The IQAC implements the feedback process for all programs in each semester, analyses the feedback and shares it with teachers to seek improvement in the teaching-learning process. The IQAC has external experts who share their expertise in this regard. Quality of teaching, resources used and prescribed, methods adopted for teaching in terms of teaching aids and models and course completion are presented by every teacher in the yearly appraisal reports. These reports are assessed by the IQAC and Principal and the scores are given. These scores are again verified and validated by the University Experts. Academic and administrative audit (AAA) is done every academic year.

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?

Faculty members are informed about evaluation process in faculty meet at the start of the semester. At the start of semester, faculty member reads the instructions in the class room. Students are clearly made aware of the eligibility conditions and evaluation processes (like minimum attendance requirement, submission, rechecking and retotalling process of University etc) to appear in the final examination.

Notification related to evaluation process and related documentation is displayed on notice board and Institute website. Academic calendars are provided to students at the beginning of semester

which includes all important dates and schedules.

Transparency is maintained in the evaluation process to the student through displaying the chapter test marks, unit test marks, assignment marks, model examination marks, and internal marks determination criteria, university marks on the departmental notice board.

Institute organizes LMC meeting and presentation of evaluation process to management, stake holders.

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?

University Reforms:

The university has started "Digital Exam Paper Delivery System (DEPDS)" where all question papers are received online at all exam centres before one hour of the commencement of exam. The answer scripts have OMR coding and the evaluation of Multiple Choice Questions (MCQs) is done by computer recognition. University has developed software for filling internal marks online to reduce paper work as well as accuracy is maintained in results.

University has started credit and grading system which has In Semester Exam (ISE) –End Semester Exams (ESE) with 70-30 patterns. In this, 30 marks are allotted for In Semester Examination which is conducted at Institute level. However 70 marks are allotted for End semester exam which is conducted by university. Student's marks in ESE will not be considered unless they passes in ISE.

Institution Reforms: Internal Marking Scheme:

Institute Controller of full exam is appointed at the Institute level along with the allocation of separate office, exam section for smooth conduction of examination. Institute controller conducts meeting with departmental exam coordinator under which he asks for question paper setting, model answer sheet, redressal mechanism and internal, external review duties.

Two unit tests of 30 marks and one preliminary exam at the end of syllabus are conducted in every semester to evaluate the performance of the students. For every subject journal checking is done in the practical/tutorial session of respective subject.

The internal marks to the students are given on the basis of unit test performance, laboratory performance, internal oral, over all behavior of the student and attendance.

Institute also conducts aptitude test for student's departmentwise and soft skill development programs.

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?

University Examination:

Institute ensures the examination process is going on strictly in adherence with the norms and principles laid by the university in confidence manner. In this regard, University appoints external senior supervisor, internal senior supervisor, Flying squads which are independent of each other. These entities cross verify the processes.

By the Institution:

The exam controller appointed by the Institute conducts a meeting of examination committee regarding the smooth conduction/implementation of examination. This enables further improvement in the subsequent examination and evaluation.

Examination committee allots Jr. Supervisors duties to faculty members and inform all rules and regulations for smooth conduct of examinations.

Internal Evaluation:

Each department has exam coordinator working under Institute's controller of examination for smooth conduction of Internal Tests. The results of evaluation are declared within eight days. The students can see their respective answer books and discuss their queries with concerned staff. The model answers are also displayed on notice board.

The term work evaluation is done by respective subject teachers. The performance evaluation of students is displayed on notice board through Continuous Assessment Sheet (CAS). Student can discuss any queries about CAS with the concerned teacher. The information about the results is sent to parents through SMS.

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 and summative evaluation approaches to measure student achievement by the institution.

• By conducting verbal tests, group discussions, seminars, students'achievements are evaluated. This formative approach gives information about student achievement after teaching a particular unit. The performance of the student gives opportunity to the teacher gets idea about student ability and skills in the concerned subject so teacher can take necessary steps to improve the performance of the particular student. Quiz competitions, group discussions, verbal tests, assignments, surprise tests are followed by all the faculty members to measure student's performance by formative approach.

• Institute arranges Industrial visit for the students.

• The summative evaluation is done during internal test. For summative approach two internal tests

and one preliminary examination are conducted department wise.

- The above approach of formative and summative evaluation followed in the institution has positively impacted upon the performance of the students. The students are trained to attempt the University examination without any fear. Students have also improved their internal exam score. Teachers understand areas in which student require guidance. Post-test discussion by the respective faculty members benefits the students getting inputs on expected answers. Project work is also evaluated through presentations before experts and oral examinations.

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.)

To monitor the student progress, Institute has the continuous internal evaluation system which consists of two internal assessment tests and one preliminary exam.In continuous assessment process, opportunities to improve marks are given to the students participating in activities based on the course like group discussion, seminar, poster presentation etc.

Table 2.11: In Semester exam (ISE) distribution out of 30

Roll No.	Exam Seat No.	Test Marks					Extra Curricular (10)	Total Marks (30)
		I	II	Prelim	Total	Out of 20		

Table 2.12: Term work marks distribution out of 25/50

Roll No.	Test Marks					Assignment Marks		Practical Marks		Attendance Marks			Internal Oral 4/8	Extra Curricular 2/4	Total Mark 25/50
	I	II	Prelim	Total	Out of 6/12	Total	Out of 4/8	Total	Out of 4/8	Overall 1%	Out of 5/10				

Affiliated university also conducts the theory, practical and oral examination at the end of semester. The result of same are communicated to the student and parents on the website. The academic monitoring is done on the basis of university result. It organizes parents meet to have a communication once in semester.

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

Following are the attributes for graduates specified by the Institute under affiliated university-

Engineering Knowledge: Apply knowledge of mathematics, science, engineeringfundamentals and an engineering specialization to the solution of complex engineering problems.

Design/ Development of Solutions: Design solutions for complex engineering problemsand design

system components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal and environmental considerations. Conduct investigations of complex problems using research based knowledge and research methods including design of experiments, analysis and interpretation of data and synthesis of information to provide valid conclusions.

Modern Tool Usage: Create, select and apply appropriate techniques, resources andmodern engineering and IT tools including prediction and modeling to complex engieering activities with an under- standing of the limitations.

Environment and Sustainability: Understand the impact of professional engineeringsolutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development.

Ethics: Apply ethical principles and commit to professional ethics and responsibilitiesand norms of engineering practice.

Life-long Learning: Recognize the need for and have the preparation and ability toengage in independent and life- long learning in the broadest context of technological change.

Project Management and Finance: Demonstrate knowledge and understanding ofengineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

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

At University Level

For external evaluation by the affiliating university, re-evaluation is done once again. The university has adopted the mechanism for redressal of grievances. Within stipulated days of announcement of the results, students can apply for revaluation/rechecking by filling a form through the student section of the Institute. Student section forwards applications for revaluation to the university.

Student can draft their opinion regarding the expected changes in the answer sheet through the application.University assigns faculty members for the re-evaluation except from the faculties who have evaluated the answer paper for the first time. Within a short time period, result for the subject is communicated to the student through Institute office.

At Institute Level

Internal evaluation is made by the concerned subject teacher. The evaluated answer sheets are

made available in the class. The students approaches the subject teachers in case they need a clarification on the marks based on the answers and scheme of evaluation discussed in the class. If clarification by teacher is not at the satisfactory level, students can appeal to the HOD. With the help of head of the department, the grievances can be resolved.

2.6 Student performance and Learning Outcomes

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

Yes, the Institute has clearly stated learning outcomes. Faculty explains the outcomes of each course and at the end of the course, a course end survey is taken to evaluate if the set outcomes have been achieved. With the help of a committee consisting of students, faculty, alumni, management, industry, society, etc. the Institute has defined the learning outcomes for the programs offered at department level. In addition, each of the courses has well defined course objectives.

- The learning outcomes are notified by presentations, academic files.

- Learning outcomes are displayed in the departments.

- Learning outcomes are notified to parents during parent meet.

- Display on Institute website.

Program Outcomes prescribed by Solapur University, Solapur

Students attain the following outcomes:

- an ability to apply knowledge of mathematics, science, and engineering

- an ability to design and conduct experiments, as well as to analyze and interpret data,

- an ability to design a system, component, or process to meet desired needs within

- realistic constraints such as economic, environmental, social, political, ethical, healthand safety, manufacturability, and sustainability

- an ability to function on multidisciplinary teams

- an ability to identify, formulate, and solve engineering problems

- an understanding of professional and ethical responsibility

- an ability to communicate effectively

- the broad education necessary to understand the impact of engineering solutions in global, economic, environmental, and societal context

- a recognition of the need for, and an ability to engage in life-long learning,

- a knowledge of contemporary issues

- ability to use the techniques, skills and modern engineering tools necessary for engg. practice.

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

- To monitor the student progress, Institute has the continuous internal evaluation system which consists of unit tests (twice in term).

- Results are also displayed on notice boards.

- University examinations results are made available on the university website and are also displayed on the department notice boards.

- It organizes regular parents and guardians meet to have a communication with students and parents.

- The Institute carry out the analysis of University examination result for each Program

- Following chart shows the summary of the result analysis for previous academic years.
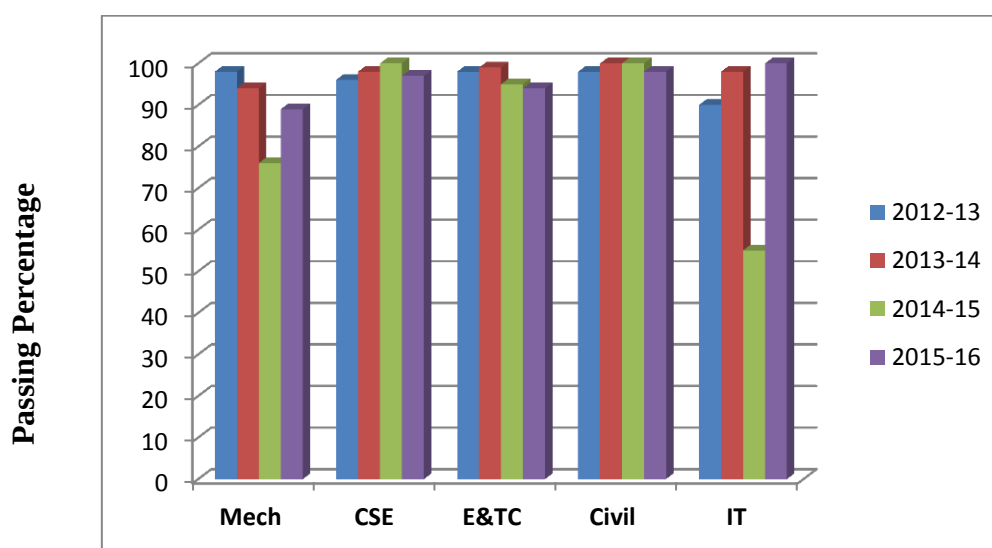
Figure 2.3: Result analysis

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:

- Faculty members are asked to prepare the course file before the start of each semester which includes quality policy, quality objective, syllabus, lesson plan (session plan), assignments, lab manuals, previous year question papers and hand-written notes/softcopy notes, presentations

considering the defined learning outcomes of the subject.

- Laboratory manuals are prepared to understand the procedural aspects of the experiment to be performed. It is supplemented by the frequently asked questions on that experiment

- Setting of internal test papers keeping in view the university pattern and fulfillment of learning outcome.

- All Head of the Departments monitor the progress of syllabus by checking the course file (academic diary-memorandum) on regular basis at department level.

- Procurement of Books in the library according to the syllabus designed.

- Head of the Department supports the faculty to improve the teaching standard by providing positive suggestions and instructions as and when required.

- **Assessment Strategies**

- Regular tests and semester exams are conducted and the result analysis helps in assessment of student performance.

- The performance of the students during technical events, workshops are carefully observed to assess students.

- Final year Project work is assessed in phase in order to achieve the intended learning outcomes.

- Each and every strategy of the Institute is well planned to convert the budding engineers into responsible citizens with the knowledge, skills, attitudes and values. It helps to enhance their employability and progression opportunities.

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?

- Institute arranges relevant training programs for aptitude, soft skills, technical training, etc. for placements of the students. The training of the entrepreneurship development programs from the experts is provided to the students to improve their entrepreneur quality.

- The syllabus includes the subjects that help in understanding modern tools and techniques that are expected by potential recruiters. These subjects are helpful to students for their placements as well as entrepreneurship.

- Institute has signed MOUs with different industries and Institutes.

- Institute promotes implementation of live projects.

- Students are motivated to search the need based problems as their final year projects.

Student placements:

- Institute has "Training and Placement Cell" to look after the training and placement activities.
- Employability skills development programs are conducted for the final year students. It consists of training regarding CV preparation, aptitude test, group discussion and interview techniques.
- Soft skills and personality development programs are organized by incorporating lectures/ sessions in time table.
- Institute has structured research committee with the objective to develop research environment in the Institute and motivate faculty and students to get actively involved in research projects. It also helps the faculty to apply for research projects funded by professional bodies like AICTE, UGC, DST and CSIR etc.
- Students are encouraged to take social issues as their problems for mini and major projects.

The summary of the number of students seleceted in on and off campus during current and previous academic years is shown as below:-

Table 2.13: Placement details for four years in percentage branch wise

Year	Campus Selection		Off Campus Selection	Higher Studies	Entrepreneur	Total
	Eligible	Selected				
Department of Mechanical Engineering						
2012-13	49	16	30	20	10	76
2013-14	42	15	35	10	15	75
2014-15	35	12	42	13	17	84
2015-16	38	15	35	10	15	75
2016-17	23	12	42	13	17	84
Department of Civil Engineering						
2012-13		---	---	---	---	---
2013-14	14	08			20	100
2014-15	23	11	20	50		70
2015-16	41	15	35	10	15	75
2016-17	25	12	42	13	17	84
Department of Electronic and Telecommunication Engineering						
2012-13	46	32	20	15	03	70
2013-14	28	13	25	16	08	62
2014-15	19	10	30	15	10	65
2015-16	19	15	35	10	15	75
2016-17	24	12	42	13	17	84
Department of Computer Engineering						
2012-13	37	15	40	10	06	71
2013-14	35	10	30	15	05	60
2014-15	60	18	30	10	10	68

2015-16	26	15	35	10	15	75
2016-17	21	12	42	13	17	84
	Department of Information Technology					
2012-13	34	15	35	20	10	80
2013-14	26	17	38	16	09	80
2014-15	34	17	25	20	15	77
2015-16	41	15	35	10	15	75
2016-17	22	12	42	13	17	84

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.

Institute has the continuous internal evaluation system which consists of unit tests (twice in term), improvement (retest) and POE. University conducts end semester examination. Analysis of internal examination result and end semester examination result is carried out and the same is related to achievement of learning outcomes. Student performance is evaluated on the basis of their performance in academics, extra and co curricular activities.

Exit feedback is taken from the outgoing students every year. The feedback from the alumni and also from the recruiter is collected. The data pertaining to the graduates seeking higher education and involved in research is also collected.

The feedback collected is analyzed and the necessary modifications in the curriculum and evaluation strategies are suggested to meet the desired learning outcomes. In every semester for all the subjects mapping of COs with POs is done and by the end of semester the achieved target is taken as a bench mark for next year.

Sample copy of mapping of COs to POS for Applied Thermodynamics of SE (Mech.) - I

Objectives:

- To study fundamental laws of thermodynamics and its real life applications.
- To study and analyze power producing devices used in practice such as boilers and turbines.
- To study power consuming devices used in practice such as compressor and their analysis

Outcomes:

Learner will be able to

- Apply fundamental concepts of thermodynamics to solve real life problems.
- Identify problems and analyze power producing and consuming devices. Schedule for measurement of outcomes

Table 2.14: mapping if COs to POs

Mode of assessment ⟹ Assessment tool Outcomes	Home assignment	Internal assessment	Prelim Exam
1		✓	✓
2		✓	✓
3		✓	✓
4	✓	✓	✓

Outcome1: Learner will be able to demonstrate understanding of basic concepts ofthermodynamics.

Target goal set: 70%

Assessment tool: Theory Exam (Internal assessment, prelim) Category: Knowledge – Remembering, Understand.

This outcome deals with basic understanding of concept of thermodynamics.

Question for internal assessment /prelim:

Table 2.15:Learning outcomes

Define		Expected answer
a)	Pressure	
b)	Temperature	
c)	Work	
d)	Power	
e)	Heat	
f)	Macroscopic view	
g)	Microscopic view	Proper statement in Precise word.
h)	Path	
i)	Process	
j)	Thermodynamic cycle	
k)	Mechanical, thermal, chemical equilibrium	
l)	Quasi static process	
m)	Internal energy	

Table 2.16:Rubrics for grading

% grading	100%	70%	40%
Expected points in answer	Proper statement with Precise words.	Meaning of statement is same but not in precise words.	Meaning of statement is somewhat similar.

Assessment of outcomes for Batch-I of A. Y 2016-17

Table 2.17:Assessment of outcomes

Sr. No	Roll No	Applied Thermodynamics (Sem-III) Outcome -2 (GOAL -60%)		Average (10)	Attainment of outcome	Average % of Achieved
		UT-1	PRELIM			
		10	10			
1	1	10	3	6.5	1	
2	2	10	4	7	1	
3	3	10	5	7.5	1	
4	4	6	0	3	0	
5	5	8	5	6.5	1	
6	6	10	4	7	1	
7	7	10	8	9	1	
8	8	8	8	8	1	
9	9	10	5	7.5	1	
10	10	4	4	4	0	68
11	11	4	0	2	0	
12	12	10	2	6	1	
13	13	10	8	9	1	
14	14	4	5	4.5	0	
15	15	4	4	4	0	
16	16	10	7	8.5	1	
17	17	4	8	6	1	
18	18	10	10	10	1	

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

• The institution has a well defined, set mechanism to monitor the learning outcomes.

• Attendance is compulsory for every lecture.

• Weekly and monthly academic monitoring is done by HOD.

• Theory and laboratory hours are fixed.

• Institute maintains record of the marks scored by the students ine unit tests and university exams.

• Feedback meetings of respective subject teacher are conducted with principal for monitoring the progress of students. If students are lagging somewhere steps are taken to minimize that gap by conducting remedial classes.

• Through weekly departmental meeting academic performance is monitored by taking review of

chapter test, unit test, and lab test.

- Academic performance is monitored through university result analysis, and practice sessions are conducted for tough subject after Institute hour.
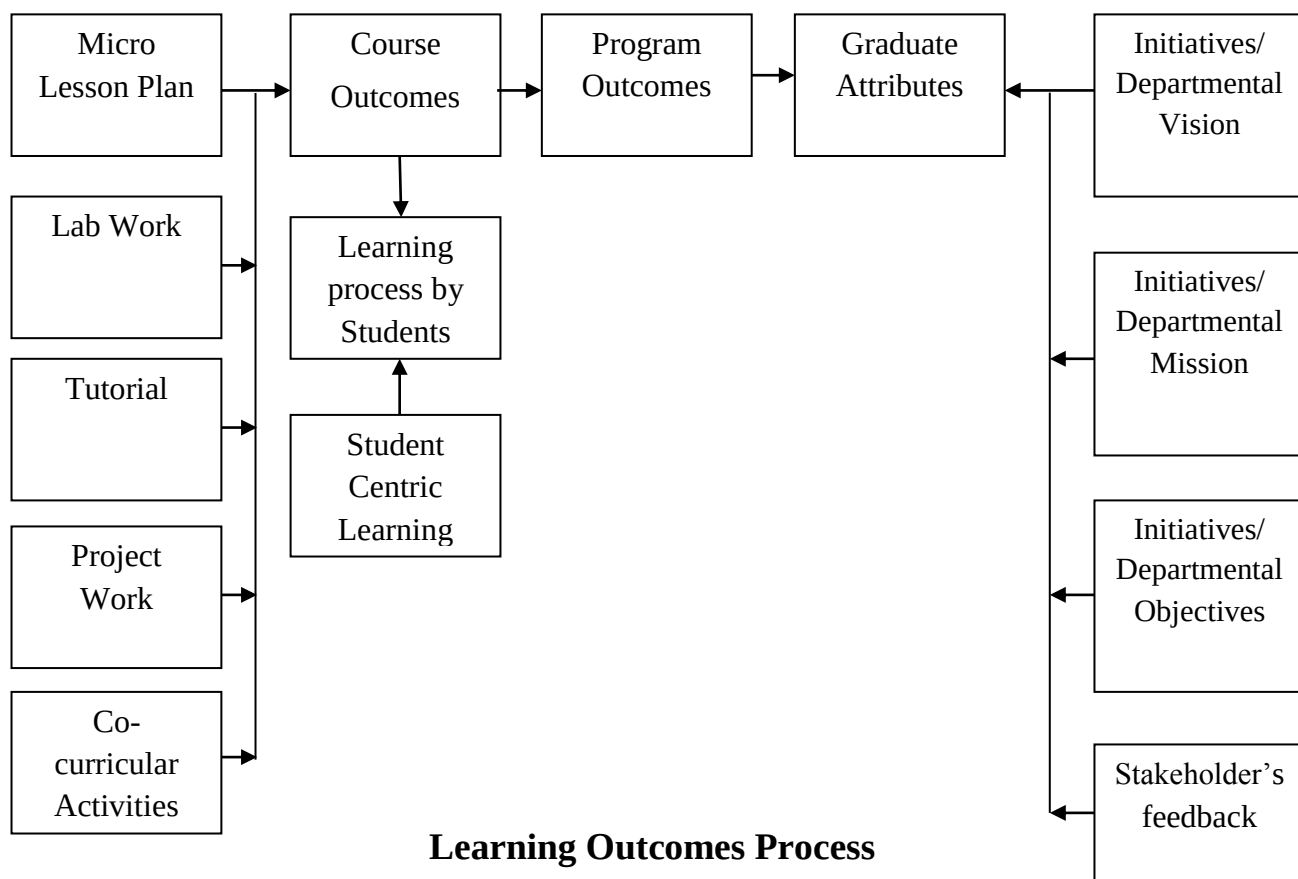
2.6.7 Does the institution and individual teacher use assessment/evaluation outcomesas an indicator for evaluating student performance, achievement of learningobjectives and planning? If 'yes', provide details on the process and cite a few examples.

The Institute and all individual faculty members use assessment/evolution outcomes as an indicator for evaluating student's performance, achievement of learning objectives and planning.

- Students participate in different academic activities viz. tutorial, mini projects, solution of numerical problems, quiz, seminar, oral etc. These activities help to assess proficiency of students in application of mathematical and engineering concepts, effective communication skills. This process helps in achievement of learning outcomes.

- Institute has strong methodology for continuous evaluation/assessment which is a part of teaching file/staff diary.

- Subject /class wise result analysis is done, through which learning objectives are mapped.

- On the basis of class test, unit test and university result analysis, practice sessions/remedial classes are planned for slow learners.

- **Table 2.18: Computational details**

Sr. No.	Particulars	Quantity	Sr. No.	Particulars	Quantity
1	Computer Systems	314	6	Reliance lease line	100 MBPS
2	Scanner	6	7	UG bundle for CAD/ Cam/ CAE (Mech. Engg.)	15
3	Printer	21	8	Gram Plus (Civil)	02
4	Operating System	120	9	Visual Studio (Comp. Engg)	35
5	BSNL Lease line	100 MBPS	10	MS Office (Comp. Engg)	70

Learning Outcomes Process

Figure 2.4: Flow diagram of learning outcomes

CRITERION III:

RESEARCH, CONSULTANCY AND EXTENSION

CRITERION III: RESEARCH, CONSULTANCY AND EXTENSION

3.1 Promotion of Research

3.1.1 Does the institution have recognized research centre-s of the affiliating University or any other agency-organization?

The Institute has planned all the necessary provisions to have a research centre and will get probably by next Year, also the Institute is having internal research committee to monitor and address the issue concern with research work.

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 Institute has a research committee to monitor and address the issue concern with research work. The composition of the Committee is as follows:

Table 3.1: Institute Research Committee

Sr. No.	Name of faculty/ Industrialist	Department/ Organization	Position
1.	Dr. S.A. Patil	Mechanical Engg., A.G. P. I. T., Solapur	Chairperson
2.	Prof. V.V. Potdar	Mechanical Engg., A.G. P. I. T., Solapur	Convener
3.	Prof. S.B. Gadwal	Mechanical Engg., A.G. P. I. T., Solapur	Member
4.	Prof. R.V. Darekar	E and TC Engg., A.G. P. I. T., Solapur	Member
5.	Prof. A.K. Kannur	Comp. Engg., A.G. P. I. T., Solapur	Member
6.	Dr. P.V. Vedula	Mathematics, A.G. P. I. T., Solapur	Member
7.	Prof. T.D. Maslekar	Civil Engg., A.G. P. I. T., Solapur	Member
8.	Dr. S.S. Hegde	Academician, Solapur University, Solapur	Member
9.	Dr. S. M. Shiyekar	Academician, S.G.G.I, Atigre	Member
10.	Er. Chetan Loni	Industry, Alacrity constructions Pvt. Ltd.	Member

A few recommendations made by the committee are:

- An integrated research laboratory in the Institute should be set up.
- Every year at least one department should take initiative to organize state/national level conference to bring the researchers on a common platform and share the information
- To invite eminent researchers to motivate and share his research work with our facilities.
- To increase Institute – industry interactions.

- The faculty members should involve more in minor/major research projects.
- The faculty members should increase their participation in national/ international level   research oriented programmes, like conferences, seminars and workshops.

Impact: Due to encouragement and motivation from research committee, the publications by the facultiesand students in national/international journals and conferences have improved.

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

Autonomy to the principal investigator: Faculty members are engaged with doctoraland other minor and major research projects. The principal investigator has full freedom in deciding the research area, research methodology, choice of books and instruments / equipment's etc. for conducting the research projects.

Adequate infrastructure and human resources: The Institutehas all the necessary and sufficient preliminary infrastructure facility in all departments regarding instruments. The Institute provides ICT enabled facility in different segments through computers with internet and Wi-Fi campus.

Time-off, reduced teaching load, special leave etc. to teachers:

- The Institute gives permission to the principal investigator to carry out research Schemes /projects without hampering his/her normal duties in the Institute.
- The faculty members going for research paper presentation in state/national/international level seminar/conference/workshop are supported with duty leave.

Support in terms of technology and information needs:

The Institute supports its faculties in terms of technology and information needs through providing the existing resources available in the institution like laboratories, library and computer with internet facilities in different segments of the Institute.

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

- The Institution fosters scientific temper and research culture in students. The First year students are made aware about infrastructure, Library and other facilities through specially arranged orientation programmes. The strong mentoring activity also helps to identify student's inclination towards research and innovation. From second year onwards the students are motivated to participate in National level paper presentation and project presentation competitions.

- There is an open access to students to various facilities like Wi-Fi, Library, Laboratories and workshops even after college hours. Institute provides strong support for raw material procurementand testing facilities for conducting trials etc.

- The Institute is having student Association of respective branch like, MESA for Mechanical Engg., ACES for Computer, SETCOM for ENTC and ACES for Civil Engg. The activities of the Forum are participation in the Engineering competition, debates, quiz and essay writing competition, model presentation in annual State Level Technical Fair, arranging popular talk, etc. Students are encouraged to participate in these programmes organized by the Technical Fest.

- Encourage to participate in conferences, to do small and mini projects involve them in seminars/ conferences arranged by Institute.

- Conducted GATE coaching for students of the Institute.

- The Institute encourages the students to participate in the educational tours to different industries.

- By conducting workshops on emerging techniques and advances in technology by inviting eminent scholar to impart hands-on training for the students.

- By holding intra-college and inter-college competitions based on various latest research topics.

- Students are encouraged to go for internships, and Institute facilitates students to undergo summer internship- training at various reputed industries and research organizations. Institute has tie up with some industries to provide problem based projects to students during internship. Institute also has Entrepreneurship Development Cell (EDC), Industry-Institute Partnership Cell (IIPC) through which the students are encouraged to nurture their innovative ideas.

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.)

Involvement of faculty members in the research activities is as follows:

1. Guiding student research – Ph.D./PG/UG courses.
2. Leading research projects – Agency / Industry sponsored.

- **Through Doctoral study:**

Table 3.2: Research through doctoral study

Sr. No.	Name of Research Supervisor	Name of Research Student	Topic
1	*Dr. S.P.Kallurkar	Mr. Chougule M.A.	Application of value Engineering concept for cost reduction in furniture manufacturing small scale industries.

2		Mr. KulkarniP.R.	Towards improving productivity of Solapur based textiles SMEs
3		Mr. Vyavahare R. T.	Ergonomic considerations in the Design of Farm Equipments being used in Maharashtra
4		Mr. Rajmane S. M.	Improvement in Design of Centrifugal Pump for domestic use from stake holder Perceptive
5		Mr. Jagtap S. T.	Product design of Automobile Component using Six-Sigma and QFD.
6		Mr. Mitragotri P. P.	Improvement in Process Performance of a Foundry through Environment Perceptive
7		Mr. Naik S. B.	Optimal design of Plant Layout for Process Industry.
8	**Dr. S.A. Patil**	Mr. Mirage A.A.	Fatigue analysis and optimization in the design of multi-layered compound cylinders with different materials subjected to fluctuating internal pressure using Finite Element approach.
9		Mr. Kahalekar S.A.	An investigation of role of business intelligence and management in Telicom and Automobile industries in Maharastra.

*Resigned from the Institution in August 2012

- **Through Postgraduate Study:**

The Institute offers only one postgraduate programmes. Following staff members are approved PG teachers for guiding PG research projects. They guide PG students every year.

Table 3.3: Details of recognized supervisors for PG Courses with research area

Sr. No.	Department	Name of faculty	Research area
1.	Mechanical Engg.	Dr. S.A. Patil	Product design and Development
2.	Mechanical Engg.	Prof. V.V. Potdar	Product design and Developmentand Analysis
3.	Mechanical Engg.	Prof. G.R. Deshpande	Advanced materials, design, developmentand Analysis
4.	Mechanical Engg.	Prof. S.B. Gadwal	Product design and Development

- **Through Undergraduate Study:**

Table 3.4: Students projects

Sr. No.	Department	Name of faculty	Title of Research Project	Collaborative/ Individual
1	Mechanical Engg.	Prof. V.V. Potdar	Design and Development of Aquatic Weed Removal Machine	Group
2		Prof. S. Varadrajan	Energy audit of Sugar Factory	VitthalCoporation, Madha

3		Prof. R.R. Anyapanawar	Design andMfg of Media Bridge- Operation Theatre Equipment	Pratibha MeidiNax, Solapur
4		Prof.G R Deshpande	Stress Analysis of uniform and laminated Composite pressure vessel with cut out by using Ansis	Group
5		Prof.S K Kusekar	Indexing bottle filling Mechanisim	Thermax Limited,Chincholi MIDC Solapur
6		Prof. M.A. Shaikh	Experimental investigation of wall static pressure distribution using circular air jet with long pipe Nozel	Group
7		Prof. S.B.Gadwal	Experimental invesigation of wall static pressure distribution using circular air jet with short Nozzle using circular air jet on flat surface	Group
8		Prof. V S Jakukore	Rose deleafing Machine	Ramchandra Flowers
9		Prof.S.B. Gadwal	Experimental Investigation of single cylinder DI engine using waste oil as biofuel (PPO and TPO)	Group
10		Prof. S.K. Kusekar	Electrical Car	Group
11		Prof. V.V. Potdar	On Energy Audit at Kirloskar ferrous Indst.Ltd	Kirloskar Ferrous Industries Limited, Solapur
12		Prof. S.B.Gadwal	Micro Wind genrator with novel flywheel on Automobile (Two Wheeler)	Group
1		Prof. S. J. Ligade	Design and Development of Aquatic Weed Removal Machine	Group
2		Prof. R. V. Darekar	Design, Analysis and Implementation of New paradigm in Medical field using Wireless digital stethoscope	Group
3	E and TCEngg.	Prof.R.S. Khamitkar	Helping hand for deaf and dumb	Group
4		Prof.L.A.Palange	Accident detection using GPS and GSM	Group
5		Prof.A.S.Jirage	Energy saving room based on human movement using ARM7	Group
6		Prof.S.J.Ligade	Automated Toll tax collection using RFID technology	Group

7		Prof.S.R.Sakhare	TCP/IP patient monitoring Sysytem	Group
8		Prof.S. J. Ligade	IVR system for college automation	Group
9		Prof.S.R.Sakhare	Agriculture management using GSM	Group
10		Prof.M.S.Chaudhari	Simulation of earthquake and Tsunami through GSM Network	Group
11		Prof.L.A.Palange	Voice operated wheelchair	Group
12		Prof.R.P.Landage	Intelligent responding system to accident using GPS and GSM with Alkohhol detection	Group
13		Prof.A.A. Kannur	The smart vision local navigation and for blind andvisually impaired persons	Group
14		Prof.A. S. Jirage	RFID based library management system	Group
15		Prof.S.R.Sakhare	Green train	Group
16		Prof.S.R.Sakhare	Railway Track security system	Group
17		Prof.S.M.Shaikh	Railway automation	Group
1	Computer Engg.	Prof. A. S. Patil	Auto-typer	Siddheshwar Data Entry Company, Solapur.
2		Prof. A. S. Patil	SMS Based Blood Bank Management System	Damani Blood Bank Solapur.
3		Prof. A. S. Patil	Third EYE	Group
4		Prof. Khureshi. M. A	Complex event and data processing and data mining for smart cities	Group
5		Prof. Kone shivaraj	Towards differential query services in cost-effective clouds	Group
6		Prof. Anil patil	Real time energy meter billing through mobile	Group
7.		Prof. Amey doshi	Navigational app for Amnesia patients based on web services	Group
8.		Prof. Amey doshi	Geographical location based tracking system	Group
9.		Prof. Anil kannur	Webcam based credit card reader with face recognition	Group
10		Prof. Anil Patil	Detection and localization of multiple spoofing attackers in wireless networks	Group

11.		Prof. Anil Patil	Password based authenticated key exchange using three party setting	Group
12.		Prof. S. V. Kulkarni	Web base treatment intimation system	Group
13.		Prof. S. Dodamani	PDA based womens security system	Group
14.		Prof. Kulkarni S.V	Traffic detection through smart phone based on Anctroid	Group
15.		Prof. Doshi Amey	A secure control protocol for USB mass storage	Group
16.		Prof. Patil Anil	E - Campus	Group
1.		Prof. Hedgire P.R.	Estimating and Costing of Solar Power	Group
2.		Prof. Birajdar S.M.	Development of self-sustainable township by using various smart city concepts	Group
3.		Prof. Ghalimath A.G	Soft storey	Group
4.		Prof. Bhogade V.M.	Comparative Study on Conventional and Simplified Elastic Analysis of Rectangular Combined Footing	Group
5.	CivilEngg.	Prof. Bhogade V.M.	Developing graphical user interface for analysis of beam	Group
6.		Prof. Bhogade V.M.	Mix design of concrete using Plastic Waste.	Group
7.		Prof. Bhogade V.M.	Comparative study on fly-ash brick-replacement of cement by glass powder.	Group
8.		Prof. Maslekar T.D.	Landscaping of College building	Group
9.		Prof. Hedgire P.R.	Applications of GIS for designed town.	Group

- Some faculty members have completed their minor research projects.
- Two faculties have completed their Ph.D. programme in service.

Table 3.5A: Ph. D. Completed faculty

Sr.No	Name of Faculty	Department	University
1	*Dr. S.R. Dulange	Mechanical Engg.	NITI, Mumbai
2	Dr. P. V. Vedula	General Science	Gulbarga University, Gulbarga

1. *resigned the institution on 09.04.2016

- Six faculties are engaged in individual research activity towards Ph.D. programme.

Table 3.5B: Ph. D. Persuing faculty

Sr.No	Name of Faculty	Department	Ph.D. pursuing /Registered	University
1	Prof. V. V. Potdar	Mechanical Engg.	Pursuing	JNTU, Hyderabad
2	Prof. A.K. Kannur	Computer Engg.	Pursuing	VTU, Belgaum
3	Prof. S.R. Sakhare	E and TC Engg.	Pursuing	VTU, Belgaum
4	Prof. S. B. Gadwal	Mechanical Engg.	Pursuing	VTU, Belgaum
5	Prof. R.V. Darekar	E and TC Engg.	Pursuing	SPPU, Pune
6	Prof. G. R. Deshpande	Mechanical Engg.	Pursuing	VTU, Belgaum

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.

Table 3.6: Programmes organized by Institute to strengthen research culture

Sr. No.	Year	Title	Resource person	Audience
1.	**Academic Year (2011-2012)**	Workshop on "PRO – E andUnigraphics"	Indo – German tool room Pune	Students
2.		Workshop on "PCB Designing"	Mr. A.A. Akiwate, M.D. PCB Design Tech., Pune	Students
3.		Training on "Signal and Systems"	Mr. Ramesh K. Jakati Seniour Scientist, B.A.R.C., Thane.	Students
4.	**Academic Year (2012-2013)**	Training on "Microcontroller"	Mr. Ramesh K. JakatiSeniour Scientist, B.A.R.C., Thane.	Students
5.		Workshop on "PCB Designing"	Mr. A.A. Akiwate, M.D. PCB Design Tech., Pune	Students
6.		Workshop on "Research approach in Graph Theory"	Dr. M.H.Muddebihal, Gulbarga University. Dr. M.S. Biradar, Govt. College, Basawakalyan.	Open to all

7.	**Academic Year (2013-2014)**	Workshop on "Introduction to AUTOCAD"	Prof..J.S.Mujawar Prof..R.M. Patil, AGPIT.	Students
8.		Online course on Scilab	FOSEE (Online)	Students
9.		Workshop on "Electronic Circuit Design and Simulation"	Prof. S.J.Ligade AGPIT	Students
10.		Online course on OSCAD	FOSEE (Online)	Students
11.	**Academic Year (2014-2015)**	Robotryst 2015 National Level workshop	Robosapiens, Delhi	Students
12.		Recent Trends in Foundry	Prof.. A.V. Deshmukh	Students
13.		Faculty Development program on "Neuro-Linguistic programming (NLP)"	Prof.. Bharat Chougule, Director King college of Technolgy, Nemakkal, T.N.	Staff
14.		Workshop on "Automobile Mechanics and IC Engine Design"	EI Systems, Bangalore	Students
15.		Workshop on "Basics of Surface Modeling Using CATIA V5"	Prof. S.R. Shaikh andProf. P.S. Karande, A.G.P.I.T., Solapur	Students
16.		Course on CATIA	Er. SumitKarde, Consultant, Pune	Students
17.	**Academic Year (2015-2016)**	Workshop on "Electronic Circuit Design and Simulation	Prof.. Ligade S.J., A.G.P.I.T., Solapur	Students
18.		Workshop on "PCB Designing Workshop"	Mr.Akiwate Subhash (At present Director of Omikron Pvt.Ltd.,Pune)	Students
19.		National Conference on "Innovative trends in Engineering and Technology" NITET - 2016	Dr. R.S. Mente, Solapur University, Solapur	Open to all
20.		Workshop on CFD	Dr. V.A. Gundale, Director, Vira Pumps, Kolhapur.	Students
21.		Faculty Development program on "PLC and Robotics"	Dr. Y.S. Rao, Sardar Patel Institute of Technology, Mumbai	Faculty A.G.P.I.T
22.		Workshop on "Teaching methodology for Plastic Engineering."	Er. Mr. S.A. Jeurkar,Dr. A.A. Utpat, Fabtech, Sangolaand	Faculty Solapur University
23.		workshop on "Surface Modeling Using CATIA V5"	Mr.J.S.Mujawar Miss. P.S.Karande, A.G.P.I.T., Solapur	Students
24.		Workshop on "Skill Development training"	Lokmat, Solapur	Students
25.		Workshop on "Various open source software [FOSS]"	Mr. Amey Doshi, A.G.P.I.T., Solapur	Staff and Students

26.		Workshop on "Basics of CATIA V5"	Mr.J.S.Mujawar, A.G.P.I.T., Solapur Ms Karande P.S. A.G.P.I.T. Solapur	Students
27.		Workshop on STAAD-Pro software	Mr. Birajdar.S.M, A.G.P.I.T., Solapur	Students
28.		Workshop on "Introduction to Revit Architecture Software".	Mr. Bolli V.B, Professional Trainer of Revit Architecture Software.	Students
29.		Workshop on "Entrepreneurship Development Program"	Mr. Nitin Kale, NYDC, Pune	Students
30.	Academic Year (2016-2017)	Workshop on "Advance Welding Technologies"	Mr. VineetMarathe, Vinarc Engineers/ Marathe Welding Cell, Pune and Dr. D.G. Thakur, Defence Institute of Advanced Technology, Pune	Students
31.		Workshop on "Scope of Mechanical Engineers in Software Industries"	Mr. Mahesh Talange, TCS, Bangalore	Students
32.		Workshop on "PLC and Robotics"	Dr. Y.S. Rao andProf.Anand Mane, Sardar Patel Institute of Technology, Mumbai	Staff and Students
33.		Workshop on "Advanced Programming using Matlab for Signal Processing"	Mr. Darekar R.V., A.G.P.I.T., Solapur	Students
34.		Workshop on AUTOCAD software	Mr. Birajdar S.M and Mr. Bhogade V.M, A.G.P.I.T., Solapur	Students
35.		Workshop on "Advanced Programming using Matlab"	Dr. A.A. Mirje, PVPIT, Budgaonand Mrs. A.A. Mirje, WCE, Sangli	Staff and Students
36.		National Conference on "Innovative trends in Engineering and Technology" NITET - 2017	Prof. Vivekananda D., Visiting Faculty, Dept. of Communication System, IIT (Mumbai and Chennai). Dr. Asha V. Thalange, W.I.T., Solapur.	Open to all
37.		Workshop on "Entrepreneurship Development Program"	Mr. Nitin Kale, Mr.Anil Honrao NYDC, Pune	Students

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

Table 3.7: Specialized research area and expertise available

Name of Department	Areas of Specialization	Name of the Expertise
Mech. Engg.	Computational Fluid Dynamics	Prof. V.V Potdar
	Thermal Engineering Power	Prof.S.B.Gadwal
	Advanced materials design, developmentand Analysis	Prof.G.R.Deshpande
	Design Engineering	Prof. S.R. Gavhane
	CIMS	Prof. B.D. Andagi
	Manufacturing Engineering	Prof. J.S. Mujawar
		Prof. (Miss) P.S. Karande
	CAD/CAM	Prof.S.V.Arawat
	Machine Design	Prof.S.S.Inamdar
	Heat Power	Prof.M.M.Chakole
Civil Engg.	Structural Engineering	Prof. (Mrs.)T.D.Maslekar
		Prof.P.S.Swami
		Prof.S.M.Birajdar
		Prof. P.R.Hedgire
	Geotechnical Engineering	Prof. (Miss) A.G.Chavan
	Environmental and WRE Engg.	Prof. (Miss) R.D.Mudgundi.
	Transportation Engineering	Prof. V.M.Bhogade.
	Construction Management	Prof. A.S.Ligade.
Eand TC Engg.	Bio Medical Signal processing	Prof. (Mrs.) S. R. Sakhare
	Signal processing	Prof.R.V. Darekar
	Microcontrollers and Applications	Prof. A.S.Jirage
	Advances in Communication	Prof.R.D.Metri
	VLSI and Embedded systems	Prof.S.J. Ligade
	Processing Technologies	Prof.S.D. Pujari
	Broadband communications	Prof.(Mrs.) T.A.Fating
Comp. Engg.	Computer Networks, Artificial Intelligence	Prof. M.A. Khureshi

	Dot Net Tech.andWeb Tech	Prof. S.V.Kulkarni
	Cloud Computing	Prof. A.A.Doshi
	Artificial Intelligence and Computer Graphics and Visualization	Prof. A.K.Kannur
	Development of Web pages using New Web Technologies	Prof. (Mrs.) K.S.Kamuni.
	Compilers, Operating System, Logic Design, Wireless Automation	Prof. A.S.Patil

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 regularly organizes conferences, seminars and workshops in order to rope in researchers of eminence to visit the campus and interact with faculties and students.
- Details of eminent personalities that have visited and interacted with our studentsare –

Table 3.8: Interaction of eminent personalities with students and staff

Sr. No.	Eminent scientist- Industrialist	Topic	Year
1.	Prof. Vivekananda D., Visiting Faculty, Dept. of Communication System, IIT (Mumbai and Chennai).	National Conference on Innovative trends in Engineering and Technology,NITET - 2017	2017
2.	Dr. Mirage A.A., PVPIT, Budgaonand Mrs. Mirage A.A., WCE, Sangli	Advanced Programming using Matlab	2017
3.	Mr. Vinay, Marje, Technical Head, Msc Software, Pune	Industry Institute Interaction.	2017
4.	Dr. B. S. Gawali Professor, WCE, Sangli	Cryogenics	2016
5.	Er. Khopade C.R, Retrd. Technical Engineer, Irrigation Department, Maharashtra Govt.	Koyna Hydroelectric Project and Lake Tapping.	2016
6.	Mr. PhatakShrikant, H.R. of Rohan Builders,Pune.	Industry Institute Interaction.	2016
7.	Mr. Valsangkar S.A., German language Traineer, Urologist, Solapur.	German Spoken	2016
8.	Mr. Nitin Kale and Mr. Anil Honrao, NYDC, Pune	Entrepreneurship	2016
9.	Mr. Y.S. Rao, Sardar Patel Institute of Technology, Mumbai	PLC Robotics	2016
10.	Er. Deepak D. Maslekar PhD, Research Scholar, IIT Bombay	Structural Mechanics- Design and Analysis	2016
11	Er. Kore P.N. Assistant Engineer-I,	Preparation of MPSC Examination	2016

	PWD, Maharashtra		
12.	Mr. Dhanajay Suryavanshi Swami Vivekananda Kendra, Solapur.	Health and Yoga	2016
13.	Er. Deepak D. Maslekar Phd, Research Scholar, IIT Bombay	Fluid Mechanics	2016
14.	Er. Chetan Loni, Alacrity constructions pvt.Ltd.	Selection criterion of Civil Engg. in MNC companies	2015
15.	Er. Sunil S Furde, Former President, Confederation of Real Estate Developers Association of India.	Quality required to become Good Entrepreneur and How to minimize gap between theoretical and practical aspects of Civil Engineering	2015
16.	Mr. Bolli V.B, Professional Trainer of Revit Architecture Software.	Introduction to Revit Architecture Software.	2015
17.	Mr. Nitin Kale NYDC, Pune	Entrepreneurship	2015
18.	Mr. Ritesh Khaire and Vijay Bamanalli "Shree OM TMT bars" Solapur	Manufacturing of steel bars	2015
19.	Er. Chetan Loni, Alacrity constructions pvt.Ltd.	Selection criterion of Civil MNC companies	2015
20.	Er. Kumbhar Sachin Near Inchgiri Math, Vijapur rd. Julesolapur	Preparation of competitive exams in Civil Engg.	2014
21.	Prof. Hrishikesh Kulkarni	Microcontrollers	2014
22.	Mr. A.A. Akiwate, M.D. PCB Design Tech., Pune	PCB Designing	2014
23.	Dr. A. B. Gambhire, Vice President, Marathi Vidnyan Parishad.	Resent Treads In Electronics	2013
24.	Prof. Pradeep Dhage	Embedded	2013
25.	Mr. Wathare	Boilers	2013
26.	Dr.S.T.Patil	Communication System	2012
27.	Dr. Aditi Abhyankar	Image Processing	2012
28.	Mr. Ramesh K. Jakati (Seniour Scientist in B.A.R.C.), Thane.	Signal and Systems	2012
29.	Mr. Ramesh K. Jakati (Seniour Scientist in B.A.R.C.), Thane.	Microcontroller	2012
30.	Mr Vijay Bunkar, Trainner, Indo-German Tool Room, Aurangabad.	Tool design	2012
31.	Dr. M. S. Gosawi, Chancellor of International Association of Educators for World Peace, India	How to make Higher Education Value Based and Effective?	2011
32.	Dr. Vijay Bhatkar, Scientist	How to make Higher Education Value Based and Effective?	2011
33.	Capt. Dr.Nitin P. Sonje, Registrar, Solapur University, Solapur	How to make Higher Education Value Based and Effective?	2011

34.	Dr. S. A Halkude, Principal, W.I.T., Solapur	How to make Higher Education Value Based and Effective?	2011
35.	Dr. Krishna Vedula Director in Massachusetts Technology Park Corporation. And Professor, UMass, Lowell.	Views of Leading International/Foreign University on Expected Foreign University Bill of India	2011
36.	Dr. Ajit Thete, Joint Director, Technical Education, Maharastra.	Technical University of Maharashtra "Quo-Vadis"	2010
37.	Dr. M. S. Gosawi, Chancellor of International Association of Educators for World Peace, India	Technical University of Maharashtra "Quo-Vadis"	2010
38.	Prof. B. M. Naik, Educational Advisor, Maharastra.	Technical University of Maharashtra "Quo-Vadis".	2010
39.	Dr. B. P. Bandgar, Vice Chancellor, Solapur University, Solapur	Technical University of Maharashtra "Quo-Vadis"	2010
40.	Dr S. A. Halkude, Principal, W.I.T., Solapur	Technical University of Maharashtra "Quo-Vadis"	2010
41.	Dr. S. M. Khot, Head of Department, Mechanical, Fr. Conceicao Rodrigues Institute of Technology, Vashi	An Art of Writing a Technical Paper, its Publications and Emotional Engineering	2010
42.	Prof. S. V. Swaminathan	An Art of Writing a Technical Paper, its Publications and Emotional Engineering	2010

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?

Institute has made provision of subbattical leave for promotion of research. Prof. S. R. Sakhare has utilized the facility of availing the Sabbatical Leave in the Academic Year 2016-17 (from 01/04/2016 to 31/03/2017).

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 research activities of the institution go a long way towards exploring new horizons of knowledge.
- The research work is published in National/ International journals, as well as on our website for the information of all community, many researchers are referring these papers to found continue further research work.

- The research work of Dr.S.R. Dulange, "Performance Improvement of Power Loom Textile SMES: A Study in Select Districts of Maharashtra" is invaluable in Textile industry. In this work it has been identified, and analyzed the critical success factors that influence the operational and organizational performance of power loom textiles in Maharashtra and also suggested the improvement for enhancing the operational performance of power loom textiles.

The Institute has also established an ED cell to foster and nurture creative ideas and guide them at start-up level.

Table 3.9: Research for community benefits and service improvement

Sr. No.	Year	Department	Name of Project
1	2013	E and TC Engg	Helping hand for deaf and dumb, for community benefits
2			Accident detection using GPS and GSM, for community benefits
3			Wireless billing system, service improvement
4	2014		Fire detection using Image Processing, for community benefits
5			Simulation of earthquake and Tsunami through GSM Network, for community benefits
6			Voice operated wheelchair, for community benefits
7	2015		Hazard proof gloves against AC mains using GSM, service improvement
8			Hiding and Extraction of Text in Audio Video Steganography, service improvement
9			Agricure management using GSM, service improvement
10	2016		Automatic accident detection and prevention using advance sensor, for community benefits
11			GAS leakage detection andcontrolling action robot using GSM, for community benefits
12			Home appliances control using GSM, service improvement
13			Intelligent security system using GSM, service improvement
14	2013	Mechanical Engg	Energy Audit of Sugar Factory, Vitthal Sakhar Coporation, Madha

15			Lay out Design of Machine shop KFIL, kirloskar Ferrous Industries Limited, Solapur
16			Deisgnand Manufacturing of Media Bridge Operation theatre Equipment, Pratibha MeidiNax, Solapur
17	2014		Rose deleafing Machine, Ramchandra Flowers
18			Botttle Indexing and Filling, Thermax Limited,Chincholi MIDC, Solapur
19			Design and modification of planter stirrer, Shri Vitthal Sahakari Sakhar Karkhana Ltd, Pandharpur
20	2015		Performance Characteristics of VCR Engine Using Karanjaand Jatropha Oiland diesel blends, increasing the use of alternative fuels
21	2016		Design , Fabrication and Testing of Composite Mono Leaf spring, Tata Motors Workshop, Solapur
22			"Performance Improvement of Power Loom Textile SMES: A Study in Select Districts of Maharashtra", service improvement
23	2013	Comp. Engg.	Third EYE
24	2014		SMS Based Blood Bank Management System
25	2016		Tiles Estimation System
26			Autotyper

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.

The budget is made available to respective department as and when needed for attending research related workshops, seminars, conferences, trainings, etc.Details of amount spent on faculty publication and training is as below:

Table 3.10: Expenditure for staff deputation, training, seminars and conferences

Sr. No.	Details of Expenditure	2012-13 (Rs.)	2013-14 (Rs.)	2014-15 (Rs.)	2015-16 (Rs.)	2016-17 (Rs.)Budget
1.	Seminar and Conference	150296	37294	103428	141879	50000
2.	Training Program	--	12620	22440	25050	50000
3.	Faculty Staff Deputation	--	1400	19300	6240	25000

For the enhancement of research, Institute has provided very good library facility with good

resources such as E-Journals, Print journals, Magazines and periodicals. These resources are extensively used by faculty members and students in their research work.Year wise amount spent on the library resources are as below:

Table 3.11: Expenses incurred for Library Resources

Year	2012-13	2013-14	2014-15	2015-16	2016-17
Amount in Lakhs	0.64368	1.26628	2.21256	2.42946	2.5 Budget

Details of amount spent on procuring new books, journals and e-resources during the last four year

Table 3.12: Purchase of Library Resources

Library Holdings	2012-13		2013-14		2014-15		2015-16		2016-17	
	No.	Total Cost (Rs.)	No.	Total Cost (Rs.)	No.	Total Cost (Rs.)	No.	Total Cost (Rs.)	No.	Total Cost (Rs.)
Text Books and Reference Books	134	67755	278	153933	161	47380	281	118986		100000 Budget
Journals/Periodicals	47	58873	37	77513	29	40000	46	85770	47	58873
E-resources	--	--	--	--	04	80500	--	--	--	--
Delnet	--	--	1	11500	01	11500	1	16500	--	18000 Budget

Research polariscope is available under Mechanical Engineering Department which assists research work for testing component.

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?

Institute supports faculty for research projects by providing duty leave, Internet facility, and issue of reference books, e-books and online journals.Financial support is given for filing patents and presenting papers in conferences. To broaden the research views, the Institute also deputes faculty members for attending, presenting, training on various upcoming topics.

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

- The management supports the research work by economically needy students on case to case basis. Students can use Institute infrastructure and resources for doing their projects.
- Inter-college level, 'AVISHKAR' was organized in the Year 2016 at WIT, Solapur, our student

project has bagged 2nd prize.

- Institute organizes national level Technical event "AGTechfest" and provides funds for prizes, certificates and other expenses. The activity was launched in the year 2011-12 at inter-university level and is being performed every year till today with gradual increase in the scope of the event. As on today, it is organized as a national level activity.

- Most of the student's projects are carried out either in industry or with industry support in terms of raw material, experimentation facility and testing facility.

- Institute organized Solapur University's 'AVISHKAR'- University level research projects Festival in the campus in 2010

There are certain other facilities made available to support student research projects

- Existing Lab equipments for testing and computing

- Internet facility

- Reprographic Facility

- Central computing facility

- General/Departmental/Virtual Library

- Online Journals through JSTOR subscription.

- Free e-books and online journals available

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.

The various departments/units/staff of the Institute interact with those departments with which their inter-disciplinary interests match in undertaking inter-disciplinary research. Such staffers network and collaborate for organizing interdisciplinary research.

As technology and manufacturing set up essentially requires knowledge from several disciplines. The curriculum structure is also designed with multidisciplinary approach. So students undertake multidisciplinary projects and work on application of knowledge of core branch in other branches. The list of such projects is given below.

Table 3.13: List of Interdisciplinary Projects

Sr. No.	Guiding Department	Project Title and Guide	Interdisciplinary Branch
1.	EandTCEngg.	Water Plants Removing machine	Mech. Engg.
2.	Mech. Engg.	Solar refrigeration system Thermo Electric Cooling (TES) Module	EandTCEngg.
3.	Mech. Engg.	Design and Development of Aquatic Weed Removal Machine	EandTCEngg.

The Institute organizes robotic competitions for the students of the Institute and others, in which students actively participate for making robots and using them in tournaments like roborace, robowar, badminton etc. The students of the Institute from EandTC,Mech.Engg.and Computer branch had participated robotic competition at MIT, Pune.

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

- By dividing the students into small groups for analyzing effective learning of technical skills.
- The institution ensures optimal use of various equipment and research facilities of the institution by its staff and students:
- By organizing workshops and instrument training programs.
- Institute offers all equipmentsand facilities with staggered lab timeto all staff andstudents for research.
- By planning the periods for the full utilization of the equipment without wastage of time e.g. computers.
- By providing computers and Internet facilities and software. For example, CAD
- Lab, software's like MATLAB.

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.

Yet today, the Institute has not receied any special grant or finance, but has made policy and provision as well as motivated staff members for the same. Few of the staff members had applied for funding from the agencies like ISRO. In a short period of time, it can be assured.

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.

The management have provided support for securing research funds, motivated them through different programs, provided access to reputed journals, promoting for research aspects of faculties and students. It is planned by the team that within three years, Institute will have good no of projects and research works.

3.3 Infrastructure for Research

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

The Institute has well equipped laboratories and workshops which are utilized for conducting research activity. Apart from this, in various laboratories special research equipments are available. Few of them are listed below.

Table 3.14: Department-wise research facilities

Sr. No.	Department	Research facilities
1.	Mech. Engg.	Experimental Stress Analysis lab
2.		Mechatronics lab
3.		I.C. Engine Lab
4.		Metallurgy Lab
5.		H.M.T. Lab
6.		CAD/CAM Lab
7.	E and TCEngg.	VLSI on board kits,Microwind software
8.		PLC LAB MODULE and on board training kit
9.	Comp. Engg.	NPTEL Video Study Centre
10.	CivilEngg.	CTM Machine
11.		UTM Machine
12.		BOD and COD Apparatus
13.		CT Lab
14.		Direct shear testingmachine
15.		Tri-axial machine
16.		GT Lab

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 set up Research committee in every department to chalk out institutional strategies for planning, upgrading and creating infrastructural facilities to meet the needs of researchers.
- To indentify the organizational/industry, who can set-up research lab in our Institute for mutual benefit.
- To apply to various Govt./ Private funding agencies for research funds
- The teachers are updated regarding the various fellowships and encouraged to apply 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.

The Institution has not received special grants but the Research committee and team have made all the provisions for the same.

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

The Institute has liaison for availing research facilities from various industries resulting in:

- MOUs with Industries
- Access to Online Libraries
- Testing facilities at Solapur University laboratories
- Students' visits to the affiliating university, facilitated with its prior permission where they can use the facilities available in the university
- Students visit various institutions and participate in research developing Programmes arranged by institutions in the university area

3.3.5 Provide details on the library/ information resource centre or any other facilitiesavailable specifically for the researchers?

The spacious Institute library building is well furnished with various sections well equipped furniture and library management software. In the library apart from issue section, there is reference, periodical and digital library sections specially equipped with relevant literature essential for research.The details of these sections are as below:

Table 3.15: PG Reference books procured

Sr. No.	Year	M.E. Mech. (Rs.)
1.	2012-13	79348
2.	2013-14	79348
3.	2014-15	122745
4.	2015-16	127972
5.	2016-17	132000

The details of amount spent on procuring new books, journals and e-resources during the last four years:

Table 3.16: Library resources

Library Holdings	2012-13		2013-14		2014-15		2015-16		2016-17	
	Num bers	Total Cost (Rs.)	Num bers	Total Cost (Rs.)	Num bers	Total Cost (Rs.)	Num bers	Total Cost (Rs.)	Num bers	Total Cost (Rs.)
Text Books and Reference Books	59	20,475/-	90	38,959/-	--	--	59	20,475/-		50,000 Budget
Journals Periodicals	47	58873	37	77513	29	40000	46	85770	47	58873
E-resources	--	--	--	--	04	80500	--	--	--	--
Delnet	--	--	1	11500	01	11500	1	16500	--	--

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

The institution has created a supreme environment for research and development. It has provided a large number of books, NPTEL video lectures, DELNET and J-Gate for journal access, stress-less and positive attitude for research orientation and ample time for the search and re-search aspects.

3.4 Research Publications and Awards

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

- **Patents obtained and filed (process and product)**

Table 3.17: Details of patents filed

Sr. No.	Title of the Patent	Name of Faculty/ Student	Name of students/ other faculty	Application Number	Date of filing
1.	Stencil Ruler For Preparing Isomeric Drawings	Mr. S.N.Upadhe	---	258263	Granted
2.	Pan for Making Jaggery	Mr. S.N.Upadhe	---	272651	09/06/2015
3.	Design of Heat Pipe Wick	Mr. S.N.Upadhe	Prasad Kulkarni	273166	27/06/2015

- **Original research contributing to product improvement**

Following is the list of product improvements done by faculty members.

Table 3.18: Product improvement by faculty members

Sr. No.	Product Improvement	Faculty
1.	"Performance Improvement of Power Loom Textile SMEs: A Study in Select Districts of Maharashtra"	Dr.S.R. Dulange

Table 3.19: Research studies or surveys benefiting community or improving the services

Sr. No.	Product Improvement	Faculty
1.	"Performance Improvement of Power Loom Textile SMEs: A Study in Select Districts of Maharashtra"	Dr.S.R. Dulange

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 Institute is has signed a MOU with Novateur Publication's, which helps forenhancing the research culture and also for conducting national conference where the conference papers will be published in the Journal.

3.4.3 Give details of publications by the faculty and students: Publication per faculty

Number of papers published by faculty in journals/Conference (national - international)

Table 3.20: Publications by faculty members

Sr. No.	Department	Faculty Name	Publications			
			National Conference	International Conference	National Journals	International Journals
1.		*Dr. S.P.Kallurkar	01	---	---	10
2.		Dr. S.A. Patil	01	03	---	10
3.		*Dr. S R. Dulange	03	01	02	16
4.		Prof. V.V Potdar	14	01	02	17
5.		Prof. S.B. Gadwal	05	01	---	04
6.		*Prof. R.R. Anyapanawar	04	---	---	04
7.	Mechanical Engineering	*Prof.R.M. Patil	04	---	---	04
8.		Prof.G.R.Deshpande	05	---	---	06
9.		Prof.(Mrs.) S. R. Shaikh	---	---	02	01
10.		Prof.J.S.Mujawar	04	---	---	02
11.		Prof. S.R. Gavhane	03	---	02	02
12		Prof. (Miss) .P.S. Karande	04	---	---	02
13.		Prof.M.M.Chakole	02	01	--	04
14.		Prof. B.D. Andagi	02	---	---	01

15.		*Prof.S.K. Kusekar	01	02	---	01
1.	Civil Engineering	Prof.Mrs. T.D.Maslekar	1	---	1	2
2.		Prof. P.R.Hedgire	--	---	1	2
3.		Prof. P.S.Swami	2	---	2	4
4.		Prof. V.M.Bhogade	2	---	1	4
5.		Prof. S.M.Birajdar	1	---	1	4
6.		Prof. Mrs. A.G. Ghalimath	1	---	1	6
7.		Prof. S.S.Manekari	---	---	---	2
8.		Prof. A.S.Ligade	1	---	1	3
9.		Prof. A. A.Kantikar	1	---	1	2
10.		Prof.Ms. A.G.Chavan	1	---	-	1
11.		Prof.Ms. R.D. Mudgundi	---	---	---	1
12.		Prof.Ms. R.A.Adtae	---	---	---	1
1.	Computer Engineering	Prof. M.A.Khureshi.	02	---	---	01
2.		Prof. A.K.Kannur.	03	02	02	02
3.		Prof. S.S.Konda	---	---	---	03
4.		Prof. R.S.More	02	---	---	03
5.		Prof. A.B.Valsang	01	---	---	05
6.		Prof. A.S.Patil	---	---	01	02
7.		Prof. K.S.Kamuni	---	---	---	02
8.		Prof. S.V.Kulkarni	---	---	---	02
1.	Electronics andTele Comm. Engineering	Prof. S.J.Ligade	03	1	---	--
2.		Prof. S.R.Sakhare	---	---	---	---
3.		Prof. R.V.Darekar	04	03	01	2

4.		Prof. S.D.Pujari	03	04	--	04
5		Prof. A.S.Jirage	03	02	0	04
6.		Prof. S.P.Katke	1	---	03	02
7.		Prof. T.A.Fating	02	01	---	---
8.		Prof. R.D.Metri	---	---	---	---
9.		Prof. M.R.Gangul	---	---	---	02
10.		Prof. S.S.Gurav	01	03	---	04
11.		Prof. A.A.Raikar	00	01	---	02
12.		Prof. S.V.Munkantalli	---	01	---	---
13.		Prof. V. S. Amale	---	01	---	01
1.		Dr. P. V. Vedula	01	03	01	07
2.	Gen. Science	Prof.Mrs. R.B. Kulkarni	01	---	---	---
3.		Prof. Miss. S.A. Gurav	01	---	---	---
4.		Prof.Mrs. S.K. Konapure	01	---	---	---

*Former Faculties of Institute.

Table 3.21: Publications by faculty membersdepartment-wise:-

Sr. No.	Name of the Department	Paper Publication
01	Mechanical Engg.	129
02	Civil Engg.	30
03	Comp. Engg.	20
04	E and TC Engg.	31
05	General Science	05
TOTAL:		215

Table 3.22: Publications of Students (PG / UG) in last four years

Sr. No.	Name of the Department	Paper Publication
01	Mechanical Engg.	61
02	Civil Engg.	13
03	Comp. Engg.	12
04	E and TC Engg.	01

3.4.4. Provide details (if any) of

- **research awards received by the faculty**

- **recognition received by the faculty from reputed professional bodies and agencies, nationally and internationally**

Table 3.23: Recognizations of faculty members by reputed bodies

Sr. No.	Name of the Faculty Member	Recognizations	Name of the Organization
1.	Dr. S.A. Patil	Life Member	ISTE (Indian Society for Technical Education)
		Fellow	ISME(Indian Society of Mechanical Engineers)
		Member	SAE (Society of Automotive Engineers)
2.	Dr. P.V.Vedula	Life Member	Indian Mathematical Society
3.	Prof. V.V.Potdar	Life Member	ISTE (Indian Society for Technical Education)
4.	Prof. G.R.Deshpande	Life Member	
5.	Prof. S.R.Gavhane	Life Member	
6.	Prof. S.R.Sakhare	Fellow	IEI (Institution of Engineers)
7.	Prof. R. V. Darekar	Member	
8.	Prof. S.D.Pujari	Life Member	
9.	Prof.S. P. Katke	Life Member	ISTE (Indian Society for Technical Education)
10.	Prof.M.A.Khureshi	Life Member	
11.	Prof.A. A. Kannur	Life Member	
12.	Prof.S.V.Kulkarni	Life Member	
13.	Prof.A.S.Patil	Life Member	
14.	Prof.A. A. Doshi	Life Member	
15.	Prof.A.B.Valsang	Life Member	
16.	Prof.S.S. Konda	Life Member	

- Institute encourages staff to present papers in conferences, Provide TA/DA to present paper.

- It also encourages staff to accept invitation for guest lecture, keynote speaker in seminars and conferences.

3.5 Consultancy

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

- Institution has established an Industry-Institute Interaction cell. One faculty member from each department is member of this cell.

- Every department conducts Industrial visits, arranges Guest Lectures and workshops with industry experts to increase Institute-industry interaction.MOUs have been signed with prominent industries in the area.

- Visit of faculty members to industry to understand problems. These problems are given to students as a part of project, industrial training.

- Consultancy services are provided to industry and corporate sector.

- Maintains constant communication with various media houses and other organizations.

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

Consultancy increases the professional and academic experience of the staff members. It also creates and enhances the links between the Institute and external organizations and increases the research opportunities, student recruitment and placement. It may also generate additional income for the staff member and the Institute as well as help in knowledge transfer for benefit of the community.

- Faculty may be engaged in consultancy activity after taking their regular teaching load provided it does not conflict with the interests of the Institute.

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

- The funds raised through consultancy services are used for student welfare and enriching labs.

- The Institute advocates and publicizes the available expertise for consultancy services through its publications like the Prospectus, Web site and News letter.

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

- The institution encourages the staff to utilize their expertise and available facilities for consultancy services and by providing share of income for all staff working on the consultancy.

- The institution provides provision for the staff members, by giving permission on duty who are involved in consultancy and by reducing their workload.

• By giving recognition to consultancy services of the staff through their own interest and like to the fields.

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

<div align="center">

Table 3.24: Details of Consultancy

</div>

Financial Year	Name of faculty (Chief Consultant)	Title of Consultancy	Amount received (in Rupees)
2015-16	Prof. P. R. Hedgire	Concrete Cube	50600
		Soil Testing	15000
		Water Sample Test	1600
		Mix Design	6600
	Prof. A. S. Ligade	Concrete Cube	32350
		Soil Testing	8000
		Steel Test	1000
		Brick Testing	3000
		C A testing	2250
		Concrete Mix Design	29700
		Water Sample Test	1600
		Sand Test	2530
		Tiles testing	3600
		Murum Testing	5350
		Cement Test	10650
	Prof. S. M. Birajdar	Steel Test	1000
		Structural Audit	9000
		Concrete Mix Design	21000
		Concrete Cube	21200
		Water Sample Test	1350
		Sand Test	2400
		Cement Test	3500
	Prof. B.D. Andagi	Heat treatment process	1250
	Total		234530

2014-2015	Prof. S. M. Birajdar	Concerte Cube Testing	178000
	Prof. S.R. Shaikh	Micro Structure	15000
	Total		193000
2013-2014	Prof. S. M. Birajdar	Concerte Cube Testing	146000
	Total		146000

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

College has a laid down policy for disbursing the income from consultancy. As per the policy terms, half of the share is given to the consulting staff and half is deposited by the Institute for promotion of research work.

3.6 Institutional Social Responsibility (ISR) and Extension Activities

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?

Institute has a very active National Service Scheme (NSS) club and a large number of students are members of this club. They actively participate in various NSS activities with a lot of enthusiasm.

Some of the activities of NSS are as follows:-

- Blood Donation Camps are regularly organized in collaboration with Akshay Blood Bank, Damani Blood bank and Hedgewar Blood bank to save many precious human lives. The motto of the volunteers on the occasion is that no one in the society should die due to lack of timely supply of free blood.

- A clothes collection drive is organized every year in collaboration with ACES to celebrate 'the Joy of Giving' week wherein volunteers collect and distribute used clothes, toys, shoes, colors, stationery and many other articles of household use for the underprivileged section.

- Various lectures on societal issues are organized from time to time for enlightening students to come forward for contributing towards the cause.

- Funds are raised every year for aiding various disadvantaged strata of society such as handicapped persons/disabled.

- Organized Free Dental Camp in collaboration with Pandit Deendayal Upadhyay Dental college in

the year 2014

- Cleanliness camps are arranged at various locations by the NSS club under supervision of staff in-charge.

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

Extension activities for social cause are carried out through NSS club of Institute. Institute believe in inculcating responsibilities among students hence besides faculty members there are student secretaries who help staff members and coordinate with the students. A number of activities of NSS club are structured, i.e. the NSS coordinators and the student secretaries take initiative to schedule and carry out the activities. Once inspired, students keep in touch with the staff in-charge and student secretaries about various other activities, which they do with their own initiative. All activities are carried out under the guidance of the staff in-charge who gets necessary permissions and also manages finance and monitors the progress of activity.

- Ladies Club- Sangini, for the Women Enlightenment Forum to promote girl student's involvement in various activities.

- N.S.S Club Participated in Social activities like Tree plantation, jal-saksharata-sammelan(save water save lives) under supervision of staff in-charge.

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

- Institute website is kept updated with the latest events taking place in the Institute. Photographs of various events conducted, appreciation - suggestion letters from parents and industry etc are put up on Institute website.

- Online student feedback both academic and administrative is taken every semester. In addition, suggestion boxes are installed in some of the departments for suggestions from students- other stakeholders.

- Feedback from parents is also regularly taken. Regular parents meet is conducted and feedback from parents is collected.Parents also meet faculty and management when they are in station and give informal feedback on overall performance and quality of the institution.

- Regular SMS updates regarding performance of the ward are sent to parents. The parents can get

information about ward's progress through informal communication to class guardian and mentors.

- Annual alumni meet is held which is attended by our alumni with a lot of enthusiasm. A feedback is also collected from them. Institute has a registered Alumni association through which college takes inputs on key issues. There is also a website through which alumni can interact with Institute and express their views.

- Employer feedback is taken by Training and Placement Officer (TPO) and points for action are communicated to heads of dept and students.

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

Table 3.25: Details of outreach and extension programmes

Sr. No.	Year	Details	Budget (Rs.)	Expenses (Rs.)
1	2016-17	Awareness programmee about admission process to engineering for rural students	100000	Budget
2	2015-16	Awareness programmee about admission process to engineering for rural students	100000	90791
3	2014-15	Awareness programmee about admission process to engineering for rural students	125000	100865
4	2014-15	Awareness programmee about JEE and Online Forming filling for rural students	150000	133000
5	2013-14	Awareness programmee about admission process to engineering for rural students	10000	4361

The institution plans and organizes its extension and outreach programmes through the NSS Unit of the Institute, TPO. A Camp for PAN card issue was held by the NSS unit in collaboration with Murthi Communication, whereby a large number of needy persons took benefit.

Major Extension and Outreach Programmes NSS Unit:

91 students are enrolled for N.S.S (National Services Scheme) for performing various social activities in terms of blood donation Camps, extension lectures, skill development programmes.

The NSS unit of of the Institute, treading on the theme of "NOT ME BUT YOU" preached by saints like Bhai Ghanaiya and Swami Vivekananda, plans and the unit organizes the following extension and outreach programmes:

- Annual blood donation camp is organized by the NSS this year on 23rd Feb 2015.

- Blood Donation Camps are regularly organized to save many precious human lives. The motto of the volunteers on the occasion is that no one in the society should die due to lack of timely supply of free blood.

- A clothes collection drive is organized every year by the NSS unit in collaboration with ACES to celebrate 'the Joy of Giving' week wherein volunteers collect and distribute used clothes, toys, shoes, colors, stationery and many other articles of household use for the underprivileged section.

- Various lectures on societal issues are organized by NSS from time to time for enlightening students to come forward for contributing towards the cause.

- Funds raised every year for various disadvantaged strata of society such as handicapped persons.

- NSS unit has organized free dental camp by PanditUpadhyay Dental college on 5thsep 2014

- Celebrated "Sadbhavana Day Pledge" on 20th Aug 2015 in Institute campus.

- Volunteers continuously strive to spread environment awareness about the need for saving water, electricity and to make the earth a better place to live in.

Impact of Extension and Outreach Programmes

- Extension and outreach programmes instill volunteerism and philanthropy in the students.
- A deeper understanding of and commitment to the community is developed in students.
- Experience gained through extension and outreach programmes helps students make better decisions, adapt to change, improve their self-esteem and better prepare for their career, among other benefits.
- Such programmes encourage students to develop a lifelong ethic of service to society.

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?

Students and NSS Coordinators are appointed to carry out the NSS activities. The Staff in-charges motivate students and explain the reason for joining NSS. Similarly, student secretaries and senior student do the same by sharing their experiences. Web site is updated with the latest events organized along with pictures of the events. Similarly, information about various events is displayed on the notice board. Students are addressed by philanthropic organizations.

The Institute promotes the participation of students and faculty in various schemes of Central and State Governments in the following ways:

- At the time of admission of the students, the Admission Committee, comprising of teachers in charge of various committees, asks students about their interest in extension activities including participation in NSS, Departmental Association and other National/ International agencies and encourages them accordingly.

- The admission committee ensures that the student is enrolled in at least one activity right at the time of admission.

- The Prospectus disseminates information regarding all the clubs and committees to facilitate them in their choice of activity.

- This is supplemented by the counseling provided by the teachers on the admission committee.

- Similarly, the faculty has meeting with principal in which it is asked to mention its interest in extension activities including participation in NSS, Sangini WomenEnlightenment and various associations and is assigned duties accordingly.

- The Institute has Sangini Women Enlightenment Forum to promote girl student's involvement in extension activities.

- The institution promotes these extension activities by extending help in the form of manpower, funds, refreshment and transport. The achievements of the teachers and students are acclaimed and highlighted in Institute publications and local newspapers, thus promoting their participation. Special incentives and concessions are given to outstanding performers.

- Faculty participated in state and central elections as electoral officers for smooth conduct of elections

- Institute involved in enrolling all students above 18 years in the state of electoral roll.

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?

- For students with low income group, special scholarships are awarded under various schemes, one of that is 10% of the tution Fee is waved off form their fees. Flexible mode of fee imbursements is facilitated to students having weak financial background. Book scheme is availed to underprivileged students.

- The extension work is undertaken by the Institute to ensure social justice and empower students from under-privileged and vulnerable sections of society.

- Staff members are encouraging students of vulnerable sections by providing them moral and

financial support directly or indirectly.

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.

Objectives and expected outcomes of the extension activities

- A Camp for PAN card issue has benefited a large number of needy persons.
- Almost all students studying in the institution and who are above 18 years have been enrolled in the state of electoral roll.
- Organizing free Medical Check-up Camps,and providing free medicines have brought about a noticeable difference in the lives of the community. Our students have also been raising funds for infrastructure for these institutions. Earning capacity has been enhanced. With improvement in health and as a result of vocational training imparted to them, they have become more enlightened about their rights and duties as citizens of India and can elect their representatives more intelligently. Our students have truly rewarding and enriching experience of visiting the village and studying rural life from close quarters.

Extension activities complementing students' academic learning experience

- The institution has the brilliant record of producing students who are not only academically sound but also well-rounded individuals, benefiting the family as well as the community.
- The student also organized an 'Anti-Corruption Campaign' in the Institute to awaken the youth about the perils of corruption. Under the campaign, poster making competition, debate and panel discussion was also organized.

Values and skills inculcation

- Extension and outreach programmee instill volunteerism and philanthropy in the students.
- A deeper understanding of and commitment to the community is developed in students.
- Experience gained through extension and outreach programmes helps students make better decisions, adapt to change, improve their self-esteem and better prepare for their career, among other benefits.
- Such programmes encourage students to develop a lifelong ethic of service to society
- Regular parents meet,awareness about education in Solapur, awareness about new admission process, etc.

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 community is involved in the extension activities of the institution mainly through two bodies, the Local Managing Committee and the Alumni Association. Since people from all walks of life are represented in these two bodies, this institution-community networking proves to be quite fruitful. Entrepreneurs, University Teachers, Doctors, Lawyers, Managers, Architects and Chartered Accountants comprise these bodies and they manage to rope in other professional colleagues to inspire, guide and motivate our students in the activities aimed at enriching the community as well as the institution. They help in collecting donations for the Institute and impart skills and training related to various subjects also.

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.

NIL

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.

Institute magazine "AGglomeration" has received one of the best magazine awards by Solapur University for the year 2013-14 and 2014-15.

3.7 Collaborations

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.

Institute does not have any collaboration but it is included in our short term goals yet today but has planned for the same to get success in early period.

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 institution is ever ready to collaborate with various bodies for the benefit of the beneficiaries such as institution, students, faculty, local community and other stakeholders. The following

linkages/ collaborations benefit the beneficiaries by carrying out the following activities.

Table 3.26: MoU Signed with Industries

Sr. No.	Name of Company	Date of MoU	Aim of MoU
1	Ambitech Consultancy Services, Pune	20/11/2013	CAD/CAM/CAE, Training
2	Future Times Mumbai	11/02/2014	Training and Placement Consultant
3	Tech Star IT Solutions, Pune	11/11/2014	Training and Placement Consultant
4	Software Training, Pune	11/11/2014	Training and Placement Consultant
5	Unity Multicons Pvt. Ltd., Hotgi Road, Solapur	11/05/2015	In plant Training and Industrial Visits
6	Techno Wings, Kothrud Depo,Pune	09/06/2015	Inplant Training and Industrial Visits
7	NIIT, Solapur Centre	10/06/2015	Inplant Training and Industrial Visits
8	M/s Technology Management consultant Acadamy, Pune	02/09/2015	Training and Placement Consultant
9	Imperial Insititue of Excellence , Pune	18/09/2015	GATE Training
10	Times Business Solutions, Pune	08/10/2015	Campus Drive
11	Vibrant Minds Technologies, Pune	01/01/2016	Campus Requirement
12	Novateur Publication's, Pune	16/02/2016	Conference Publication
13	Corporate Bridge Consultancy Pvt. Ltd., Mumbai	16/11/2016	Campus Requirement
14	Vidyalankar Educational Services. Mumbai	15/12/2016	GATE Training
15	DELNET, Pune	31/12/2016	Access to Nationwide Library

Local Bodies

- There is collaboration on a regular basis with local news papers like sakal, Divyamarathi and local FM. IN Channels. Their experts regularly visit the Institute for lectures, workshops.
- The NSS unit is constantly engaged in distributing clothes and note books in orphanages.

University

The faculty of the Institute is collaborating the parent university Solapur University,Solapur in all the activities, right from the planning of the curriculum to the holding of exams and evaluation of answer sheets.

Administrative Agencies

- Tocommemorate the occasion of International Women's Day, WomenEmpowerment (Sangini) Forum of the Institute, organized a seminar in collaboration with karate Institute to enlighten the students and faculty about self protection methods Mrs. Sangeeta Jadhav exhorted the students to realize their potential.

- Blood Donation Camps are regularly organized to save precious human lives. The motto of the volunteers on the occasions is that no one in the society should die due to lack of timely supply of free blood. This initiative was taken by NSS unit and student associations of all branches.

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.

Table 3.27: Industry-institution-interaction details

Sr. No.	Department	Industry- institution/ organization	Student and staffsupport
1.	Mechanical	Vitthal Coporation , Madha	Sponsored Projects for students
2.		Kirloskar Ferrous Industries Limited,Solapur	
3.		PratibhaMeidiNax, Solapur	
4.		Shri Vitthal Sahakari Sakhar Karkhana Ltd, Pandharpur.	
5.		Thermax Limited,Chincholi MIDC, Solapur	
6.		Indian Bio Diesel Corporation,Pune	
7.		Akash Fabrication, Solapur	
8.		Tata Motors, Solapur	
9.		Pise Industries, Solapur	
10.	Comp. Engg.	Siddheshwar Data Entry Company, Solapur.	Sponsored Projects for students
11.		Damani Blood Bank Solapur.	

- Collaboration has been made with various corporations, banks and financial institutions business houses, interior designers, architects, jeweler houses has, not only, proved very fruitful for internship and placement of students but for establishment / creation/up-gradation of academic facilities, student and staff support, infrastructure facilities of the institution as interaction of these department with such collaborations has acquainted them with new technologies and techniques.

3.7.4 Highlight 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 3.28: Conference and resource persons details

Sr. No.	Department	International - national conference	Resource person- eminenet scientist	Duration
1.	Mechanical Engg.	Cryogenics	Dr. B. S. Gawali, WCE, Sangli	2016
2.		Advanced Programming using Matlab	Dr. A.A. Mirje, PVPIT, Budgaonand Mrs. A.A. Mirje, WCE, Sangli	2016
3.		Teaching methodology for Plastic Engineering.	Dr. A.A. Utpat, Fabtech, SangolaandEr. Mr. S.A. Jeurkar, Sai Enterprices, Solapur	2016
4.		National Conference on "Innovative trends in Engineering and Technology"	Prof. Mrs S.R.Deshpande ,Principal G.P. Solapur,Dr. R.S. Mente, Solapur University, Solapur	2016
5.		PLC andRobotics	Dr. Y.S. Rao, Sardar Patel Institute of Technology, Mumbai,Prof. Anand Mane	2016
6.		Entrepreneurship Development Program	Mr. Nitin Kale andMr. Anil Honrao, NYDC, Pune	2016
7.		Manufacturing of steel bars	Mr. RiteshKhaire and Vijay Bamanalli "Shree OM TMT bars" Solapur	2015
8.		Entrepreneurship	Mr. Nitin Kale, NYDC, Pune	2015
9.		CFD	Dr. V.A. Gundale, Director, Vira Pumps, Kolhapur.	2015
10.		Faculty Development program on "Neuro-Linguistic programming (NLP)"	Mr. Bharat Chougule, Director King college of Technolgy, Nemakkal, T.N.	2014
11.		Recent Methods in Foundry	Mr. A.V. Deshmukh, Eminent foundry operations consultant.	2014
12.	Civil Engg.	"Structural Mechanics- Design and Analysis"	Er. D.D. Maslekar Ph.D*, Research Scholar, IIT Bombay	2016
13.		"Preparation of MPSC Examination"	Er. P.N.Kore, Assistant Engineer-I, PWD, Maharashtra	2016
14.		"Fluid Mechanics"	Er. D.D. Maslekar Ph.D*, Research Scholar, IIT Bombay	2016
15.		Quality required to become "Good Entrepreneur" and	Er. S.S.Furde, Former President, CREDAI, Solapur	2015

		"How to minimize gap between theoretical and practical aspects of Civil Engineering"		
16.		"Selection criterion of Civil MNC companies"	Er. C. Loni, Alacrity constructions pvt.Ltd. Solapur	2015
17.		"Selection criterion of Civil MNC companies"	Er. C. Loni, Alacrity constructions pvt.Ltd. Solapur	2015
18.		Workshop on "Introduction to Revit Architecture Software".	Mr. V.B.Bolli, Professional Trainer of Revit Architecture Software, Solapur	2015
19.		"Preparation of competitive exams in civil Engg.	Er. S.Kumbhar Near Inchgiri Math, Vijapur rd. Jule, Solapur	2014
20.		"Koyna Hydroelectric Project and Lake Tapping".	Er. C.R.Khopade, Contractor, Solapur	2016
21.		"Industry Institute Interaction".	Mr. S. Phatak, H.R. of Rohan Builders	2016
22.	E and TC Engg.	PLC Robotics	Mr. Y.S. Rao, Institute of Technology, Mumbai	2015
23.		Microcontroller	Prof. H. Kulkarni,	2014
24.		PCB Designing	Mr. S. Akiwate (At present Director of Omikron Pvt.Ltd.,Pune)	2014
25.		Rescent Treads In Electronics	Dr. A. B. Gambhire, Vice Chairman, All India Science Cell, Solapur	2013
26.		Signal and Systems	Mr. R. K. Jakati (Seniour Scientist in B.A.R.C.), Thane	2012
27.		Microcontroller	Mr. R. K. Jakati (Seniour Scientist in B.A.R.C.), Thane	2012
28.		Image Processing	Dr. A. Abhyankar	2012
29.	General Engg.	German Spoken	Mr. S.P. Valsangkar, M.S (Gastro-enterologist), Solapur	2016
30.		"Health and Yoga"	Mr. D. Suryavanshi, Yoga Teacher, Solapur	2016
31.		Communication System	Dr.S.T.Patil, Asso. Prof., MIT, Pune	2012

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

a) Curriculum development- enrichment-

Table 3.29: MoUs resulted from collaborations.

Sr. No.	Department	Name of Organization	Details
1	MechEngg.	Ambitech Consultancy Services	Component Design using CAD/CAM/CAE tools to students.
2	Comp. Engg.	NIIT, Solapur Centre	Inplant Training and Industrial Visits to students
3		Techno Wings	Software Training
4		Software Training	Training and Placement Consultant to students
5	EandTCEngg.	Akiwate Electronics, Pune	PCB Design to students
6		Unity Multicons Pvt. Ltd.	Training and Industrial Visits for students
7	All Branches.	Novateur Publications	Conference publication NITET-2016 edition

b) Internship On the job training –

Table 3.30: Details of internship and training to staff/students

Sr. No.	Department	Name of Organization	No. of Staff / Student
1	Mechanical Engineering	Central Institute Of Tool Design, Aurangabad	3
2		Vijay Engineers andManufacturers, Solapur	15
3		LHP, Solapur	10
4		LokaneteBaburao Patil Agro Indust Ltd, Solapur	5
5		Leena Engineering Work, Solapur	7
6		Electro Fab-Crane Industries, Solapur	2
7		Kirloskar Ferrous Industries Limited, Solapur	6
8		Sangram Metal Processors, Solapur	2
9		Kirloskar Oil Engines Ltd (Kagal Plant)	1
10		Shree SiddheshwarSahakariSakharKarkhana Ltd Kumathe, Solapur	5
11		Precision Camshafts Limited, Solapur	2
12		Western Railway, Solapur	2
13		Kirloskar Brother Ltd, Pune	1
14		Tata Motors Ltd, Workshop, Solapur	1
15		GRP Reclaim Rubber, Solapur	1

16		Thermax Ltd Chincholi MIDC, Solapur	2
1.	E and TC Engineering	Railway Organisation Solapur	13
2.		Sathe Engineering Company, Solapur	21
3.		Kreative Technologies Solapur	3
4.		BSNL Solapur	1
5.		Aftek Limited Solapur	3
6.		Kanchan Tele Infra Engg. Pvt Ltd., Solapur	1
1.	Computer Engineering	NIIT, Solapur	34
2.		Tech-Star IT Solutions, Solapur	17
1.	CivilEngineering	Anant Solapur, Solapur	20
2.		Indradhanu Construction, Solapur	10
3.		M.Y. Ustad and Associates (Developer and	5
4.		Amardeep Construction, Solapur	8
5.		Vishambar Construction, Solapur	7

c) **Summer placement –**

Table 3.31: MoUs resulted for students for placement from collaborations.

Sr. No.	Name of Organization	Details
1	Future Times Mumbai	Training and Placement Consultant to students
2	Campus Recruitment Training Development	Training and Placement Consultant to students
3	Tech Star IT Solutions, Pune	Training and Placement Consultant to students
4	Times Business Solutions	Placement Consultant to students
5	Imperial Institute of Excellence	GATE Training for students
6	M/s Technology Management consultant Academy	Training and Placement Consultant to students
7	Vibrant Minds Technologies, Pune	Placement Consultant to students

d) **Research**

• Students are encouraged to explore new horizons of knowledge through various projects.

- Institute teachers are doing collaboration work with industries and organizations as well.
- A big number of Institute faculties have been recognized as project guides and guided (no. of B.E. students of last 4 years) students in the last five years.
- A respectable number of research papers by the faculty and students have been published in leading national and international journals.
- Faculties and students ideas are converted into real life projects focus is given to needs of villagers.

e) Consultancy – Institute actively involved in consultancy work in the area of material testing, Water Sample Test, Heat treatment process, Sand Test, Structural Audit, etc.

f) Extension - Through the vast range of extension activities provided by it, the Institute has been able to inculcate a spirit of service in the faculty as well as the students.Institute is also actively involved in extension activities for rural students about creatingawareness related to admission process of engineering and technology demonstration.

g) Publication - The Institute faculty has published a number of research papers in collaboration with their colleagues in other colleges.

h) Student Placement - The Placement Cell of the Institute collaborates with a number of on-campus and off-campus placements.

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

The Institute plans and establishes the linkages/collaborations with international, national, state, local bodies, industries and research Institutes to boost research, consultancy and extension tasks. It works with them and takes initiative in enhancing and facilitating Curriculum development/enrichment, internship/ On-the-job training, research, consultancy, extension, publication, student placement and introduction of new courses. It implements the initiatives of the linkages/collaborations.

Any other relevant information regarding Research, Consultancy and Extension which the Institute would like to include.

Right from the time of its inception, Institute has been treating Research as its top priority and boosting it in the best possible manner. Also it have started with suiable implementation steps for the same. It is also assured that Institute will have more than sufficient level of research work as well as funded projects in a span of five years.

CRITERION IV:

INFRASTRUCTURE AND LEARNING

RESOURCES

CRITERION IV: INFRASTRUCTURE AND LEARNING RESOURCES

Ever since its inception in 2008, the Institute has been keeping pace with the ever changing needs and requirements to meet its academic growth. To keep the pace with the needs and requirements, additional infrastructure is being added from time to time. Institute has the policy for creation and enhancement of infrastructure as per the norms of AICTE. Also, feedback from students and other stakeholders is given due weightage in framing such policy. Accordingly, to meet curricular and co-curricular requirements, Institute has adequate class rooms, laboratories, workshops, seminar halls, etc. A sprawling recreation hall named Samarth Hall, takes due care of co-curricular and extra-curricular activities. In addition, playground and gymnasium facilities are available for extra-curricular activities. Schedule of activities is prepared and implementation is made through committees with representation from students. There are separate hostels in the campus for girls and boys. These hostels have internet facility, gymnasium, constant supply of safe drinking water, medical facility, recreational facility, study room, security, etc. Common facilities such as Training and placement cell, medical facility, counseling facility, safe drinking water, canteen, recreation facility, security etc. are available in the campus. Library Advisory Committee takes due care to ensure that library facilities are updated and made available to the students. Digital Library facility is also provided through DELNET, e-journals, etc. Bottom up approach is used in preparing the budget and allocation of funds accordingly for maintenance and upkeep of the facilities. Review meetings are taken for effective utilization of the funds.

4.1 Physical Facilities

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

Taking into consideration the rules, guidelines, norms and suggestions from all stakeholders, the Management is playing vital role in deciding the policies and strategies to make effective and outcome based teaching and learning. The policies of the Institution for creation and enhancement of infrastructure that facilitates effective teaching and learning are:

The Management Committee meets monthly to plan academic and administrative activities of the Institute. Every year as per the physical infrastructure requirements of the next academic year an Annual plan for construction of additional buildings and infrastructure is prepared and executed.

- Budget for the enhancement of infrastructure, learning resources and other activities is prepared at department level for each academic year and approved through the governing body meeting.

- Planning and Monitoring Committee makes suggestions / recommendations for evolving polices in infrastructure development for current and upcoming teaching learning process.

- Research Advisory Council and Academic Advisory Committee helps in the process of research and academic planning and coordination.

- Building committee acts as a platform to provide planning and coordination for the building construction and maintenance of the Institute.

- Human Resource Development committee identifies and recommends training needs for staff.

- Governing body, the apex decision making body at Institute level, meets, reviews the activities and policiesand resolves on all matters pertaining to the Institute.

- Institute has its Local Management Committee constituted as per Maharashtra University Act 1994. Local Management Committee helps in the process of monitoring academic performance, preparation of budget, etc.

The LMC constituted is as follows –

Sr. No.	Name of LMC Members		Designation
1.	Hon'ble Shri. A. G. Patil	Chairman	Chairman
2.	Hon'ble Shri. S.A. Patil	Secretary	Member
3.	Prof. S.D. Bapat	Education Representative	Member
4.	Shri. S. H. Patil	Social Worker	Member
5.	Dr. R. B. Hankare	Industrial Representative	Member
6.	Dr. S. A. Patil	Principal	Member-Secretary
7.	Prof. S. R. Gavhane	Representative of Teaching Staff	Member
8.	Prof. P. S. Swami	Representative of Teaching Staff	Member
9.	Prof.Mrs. T. D. Maslekar	Representative of Teaching Staff	Member
10.	Mr. A. M. Savalgi	Representative of Non-Teaching Staff	Member

The governing body constituted is as follows –

Sr.No.	Member	Name and Address
1	President : To be nominated by the Registered Society/ Trust	Shri. Annarao Gurulingappa Patil 1, New Santosh Nagar, Solapur – 413 004.
2	Vice - President : To be nominated by the Registered Society/ Trust	Shri. Santosh Annarao Patil 1, New Santosh Nagar, Solapur – 413 004.
3	Secretary : To be nominated by the Registered Society/ Trust	Shri. Siddeshwar Annarao Patil 1, New Santosh Nagar, Solapur – 413 004.
4	Member : To be nominated by the Registered Society/ Trust	Sou. Shanta Annarao Patil 1, New Santosh Nagar, Solapur – 413 004.
5	Member : To be nominated by the Registered Society/Trust	Sou. Megha Siddeshwar Patil 1, New Santosh Nagar, Solapur – 413 004.
6	Member : (Ex-officio) An Industrialist from the region to be nominated by the State Government.	Mr. Ravindra R Adage, Director, Global Infinite Green Power A – 199, MIDC Chincholi Solapur.
7	Member : Nominee of the Affiliating Body/University/State Board of Technical Education.	Prof. R.R.Patil School of Earth Sciences, Solapur University, Solapur.
8	Member : (Ex-officio) Nominee of the State Government	Dy. Director, Director of Technical Education Regional Office Pune.

	– Director of Technical Education.	
9	Member : (Ex-officio) An Educationalist from the region to be nominated by the State Government.	Dr. Jayant C Burse 560/50, "Om Sai Prasad" South Sadar Bazar, Solapur Hsg Society Vijapur road., Solapur - 413003
10	Member : (Secretary) Principal of the Institute (as nominee of the Society/Trust)	Dr. Sunil A Patil, Principal, A.G.Patil Institute of Technology, Solapur

4.1.2 Detail the facilities available for

a) **Curricular and co-curricular activities –Classrooms, technology enabled learning spaces, seminar halls, Tutorial spaces, Laboratories, Botanical garden, Animal house, specialized facilities and equipments for teaching, learning and research etc.**

b)   **Table 4.1: Detail the facilities available**

Sr.No	Details of the facility available	Built Up Area
		Class rooms
1	The Institute has adequate class rooms as per AICTE norms. They are well equipped with Dais, agronomical Desks, Platform, Fans, Fluorescent tube lights, Green board, Liquid Crystal Display Projector, Podium, curtains. (For Layout refer fig no. 1 – 16). The Details of class rooms are as follows	**Department of Computer Engineering** Lecture Hall-1(Q206)–12.0M X 9.14M (109.72 Sqm.) Lecture Hall-2 (Q203) – 7.47M X 8.87M (66.26 Sqm.) Lecture Hall-3(Q303) – 7.47M X 8.87M (66.26 Sqm.) Lecture Hall-4(Q304) – 7.47M X 8.87M (66.26 Sqm.) Lecture Hall-5(Q310) – 7.47M X 8.87M (66.26 Sqm.) **Department of Mechanical Engineering.** Class Room (P010) - 7.47M X 8.87M (66.26 Sqm.) Class Room (P011) - 7.47M X 8.87M (66.26 Sqm.) Class Room (P012) - 7.47M X 8.87M (66.26 Sqm.) Class Room (P017) - 7.47M X 8.87M (66.26 Sqm.)

	1. Dept. of Comp. 05 Nos. 2. Dept. of Mech. 06 Nos. 3. Dept. of Civil 03 Nos. 4. Dept. of EandTC 03 Nos. 5. First Year Engg. 01 Nos. The Details of LCD projectors are as follows 6.Dept. of COMP. ENGG. 04 Nos. 7.Dept. of Mech. 02 Nos. 8.Dept. of Civil 01 Nos. 9.Dept. of EandTC 02 Nos. 10. Seminar Hall 01 Nos.	Class Room (P018) - 7.47M X 8.87M (66.26 Sqm.)
		Class Room (P019) - 7.47M X 8.87M (66.26 Sqm.)
		Department of Civil Engineering Class Room (P212) - 7.47M X 8.87M (66.26 Sqm.)
		Class Room (P217) - 7.47M X 8.87M (66.26 Sqm.)
		Class Room (P219) - 7.47M X 8.87M (66.26 Sqm.)
		Department of Electro. andTele Comm. Engineering Class Room (Q110) - 7.47M X 8.87M (66.26 Sqm.)
		Class Room (Q103) - 7.47M X 8.87M (66.26 Sqm.)
		Class Room (Q104) - 7.47M X 8.87M (66.26 Sqm.)
		Department of First Year (F.E.) Engg. Class Room (P105) - 7.47M X 8.87M (66.26 Sqm.)
	Tutorial Rooms	
2	All departments have provision for tutorial rooms with Desks, Green board, Fans, Tube lights, Table, chairs.	All the above class rooms are used as tutorial rooms of individual departments.
	Technology enabled learning spaces	
3	Central Internet Lab (Q 306 and Q 307)	To encourage the students to utilize the various computer softwares' available with the departments, the laboratories are equipped with high end Personal Computers. In addition to this all laboratories are connected to Central Server through LAN which provides internet facility of 100 Mbps speed. The Institute campus also has Wi-Fi connectivity including the hostels. There is a Central Internet Facility with 80 systems at single location for the entire students and staff alike.The configuration of the systems are as under :Dell Inspiron Desktop- Intel Dual Core 2.9 GHz, 2Gb DDR2 Ram, 500GB SATA HDD, 18.5" Dell LCD Monitor.
	Seminar Hall	
4	Centralized Seminar Hall per department equipped with	1.Department of Computer Engineering. Seminar Hall (Q206) – 12.0M X 9.14M (109.72 Sqm.)

5	Dias, Chairs, White board, Table, Podium, P.A. system, Fans, light, LIQUID CRYSTAL DISPLAY Projectors etc.	2. Department of Mechanical Engineering. Conference Hall (P101) –12.0M X 9.14M (109.72 Sqm.) Department of Civil Engineering. Seminar Hall (P230) –12.0M X 9.14M (109.72 Sqm.) 4. Department of Electro. andTele Comm. Engineering Conference Hall (Q201) –12.0M X 9.14M (109.72Sqm.)
		Laboratories
5	All labs are equipped with adequate instruments/equipment to meet the curriculum as well as Program Outcomes. Also these laboratories are used for UG and PG level research work. The Institute also has research laboratories for research related work.	**1.** Department of Computer Engineering. a) Central Internet facility and Project Lab. b) Computer Network Lab. c) Computer Programming Lab. d) Database Lab. e) Advance Programming Lab. f) Data structure Lab. **2.** Department of Mechanical Engineering. a) Experimental Stress Analysis Lab. b) Metallurgy Lab. c) Manufacturing Process. d) Heat Mass Transfer Lab. e) CAD/CAM Lab. f) Applied Thermodynamics Lab. g) Theory of Machines Lab. h) Metrology and Mechanical measurements Lab. i) Basic Mechanical Engineering/Refrigeration Air conditioning Lab **3.** Department of Civil Engineering. a) Computer Programming Lab. b) Environment Engg. Lab c) Engineering Geology Lab. d) Surveying Lab. e) Fluid mechanics Lab. f) Strength of Materials Lab. g) Concrete technology Lab. h) Transportation Engineering Lab. i) Geo Technical Engineering Lab. j) Applied Mechanics and Basic Civil Engineering Lab. **4.** Department of ENTC Engineering. a) Switching and Digital Circuit Lab. b) Electronics Software Lab/Internet and Project Lab. c) Electronics Circuit lab.

		d) Communication Systems Lab. e) Microprocessor Lab. f) Printed Circuit Board Lab. g) Robotics Lab. h) Basic Electrical Lab. **5.** Department of F.E.(First Year Engineering.) a) Engineering Chemistry Lab. b) Engineering Physics Lab. c) Languages Lab.
	Faculty Rooms	
6	Faculty rooms	As per the AICTE requirement individual/shared faculty rooms are provided. Faculty rooms also have been equipped with the required facilities such as PC, LAN connection, furniture, cupboard etc.
	Meeting Room	
7	Every department has meeting room with Chairs, table, to conduct departmental meetings	**1.** Department of Computer Engineering and Department of ENTC Engineering. Q302 is used as Meeting Room Shared by both Departments. **2.** Department of Mechanical Engineering, P102 A is used as Meeting Room. **3.** Department of Civil Engineering. P227 is used as Meeting Room. **4.** Department of First Year Engineering. A cubicle in Q6 is used as Meeting Room.
	Electricity and Power Backup	
8	Solar system with power generation of 50KW	One hundred and Sixty Seven solar panels containing 72 solar cells in each panel with collective capacity of 50kW have been terrace mounted on Q-Building. The overall power required for an average day is far less than the mammoth power generated by this state of the art solar mini-grid. Henceforth, the surplus power is taken by Maharashtra State Electricity Board in lieu of their power transmission to A.G. Patil Institutes. This is anarrangement in accordance with the government policy. Hence, the Institute saves significant amount of money on electrical power. Generator of capacity 72 KVA is available in Institute campus for lack of state electricity supply.
	Telecom facility	
9	Communication System for staff	Individual Mobile phones have been provided to all the HODs and even the expense is borne by the Institute. The Institute has created facilities for smooth and fast communication involving intercom and mobile phones in tune with the requirements.

Central Library and Departmental Libraries		
10	Text books, reference books, e-books, magazines, journals, e-journals, projects and seminar reports, video lectures by the experts, university question papers and answer sheets of subject toppers help students to acquire knowledge and gain technical expertise to interpret, analyze and solve technical problems. Journals, e-journals, project reports and seminar reports motivate the students to tune them for lifelong learning. Central Library and Departmental Libraries have been equipped with the required facilities such as PC, LAN connection, furniture etc.	The Institute Library has the following facilities 1. Issue Section 2. Reading Section 3. Reference Section 4. Stack Room 5. Reprographics Facility with computer connectivity 6. Computerized library 7. Book Bank facility 8. News Paper and Journal Section 9. WIFI 10. OPAC Facility 11. Library Automation 12. Back Volume Section 13. Wi-Fi Facility 14. Power back up facility 15. DELNET (National Digital Library) facility available 16. NDL (National Digital Library) facility available 17. J Gate Engineering facility available 18. NPTEL (National Programme on Technology Enhanced learning) facility available 19. Separate periodical section in main library.
Entrepreneurship initiatives, product designs and innovations		
11	The Institute has signed MOUs with the following entities.	1. Pehlajob.com is providing placement assistance to the students of all departments of the Institute to ensure better job prospectus in various industries. 2. GATE Imperial Institute of Excellence (For GATE Coaching Classes) Gate Imperial Institute of Excellence, Hyderabad, has been coaching the Final Year students to help them secure better GATE score. 3. NIIT, Solapur NIIT is in association with A.G.Patil Institute of Technology to conduct vocational Industrial training which is prescribed by the University for Third-Year Engg students every year.
Drinking water		
12	The Institute has water purifying units with Reverse Osmosis process.	The Institute has an organized supply mechanism for the entire campus and hostels. The Institute has a water cooler facility at each department.

	Girls Reading Room	
13	In Girls Hostel,	24 hrs. reading room facility is available
	Boys Reading Room	
14	In Boys Hostel	24 hr. reading room facility is available.
	Canteen	
15	Canteen	Available for staff and students. Mess facility for Girls and Boys staying in hostel with nutritious food in hygienic conditions at reasonable amounts
	Security	
16	Campus Security	Provided security personnel who take care of security measures. The entire Institute is under CCTV surveillance.
	Washrooms	
17	Washrooms	Gents and Ladies washrooms are available in department at proper locations.
	Transportation Facility	
18	Institute bus facility and auto rickshaw facility available from all corners of the city 24x7. Flexible and affordable conveyance is available.	Bus facility and auto rickshaw facility available from all corners of the city 24x7. Flexible and affordable conveyance is available.
	Counseling Services	
19	Doctor facility and Psychological consultant	A part time doctor from Care hospital, Solapur Visits Institute twice a day (Morning 8 AM and evening 7 pm) Psychological consultant appointed for rendering services in the campus for students as well as staff.
	Photostat	
20	Photocopier is available for students in the campus and for staff in the Institute office.	The Institute photostat facility provides other supporting/value added services like • project report binding, • spiral binding of documents, • lamination • Engineering stationary items.

c) The details of maps, built up area and MOUs is available at the departments.

Extra-curricular activities – Sports, Outdoor and Indoor games, Gymnasium, Auditorium, NSS, NCC, Cultural activities, Public speaking, Communication Skills development, Yoga, Health and Hygiene etc.

Table 4.2: Extra-curricular activities

Sr.No.	Facility Available	Details of the facilities available
1	NSS	National Service Scheme (NSS) is a strong unit through which Social welfare activities like blood donation, NSS Special Camps are organized throughout the year. Revenue from various NSS activities has been generated and deposited in NSS account annually.
2	Cultural Activities	Every year, a cultural program named "ABHIYUVA" is held to encourage students to participate in performing arts. This program is very useful to bring out hidden talent of students. One week before the culmination of this grandeur event each day is celebrated as Twins Day, Chocolate Day, Traditional Day and Halloween's Day etc.
3	Public Addressing Systems	Central and Department level Public Addressing systems are available in the campus like sound system with amplifier and microphone etc.
4	Communication Skills Development	To make students competent in English grammar, reading, writing and to increase vocabulary, Communication Improvement Programme (CIP) is introduced and developed Language Laboratory for the same. Institute has appointed on contract basis a professional trainer Prof. Dastagir Jamadar who was qualified in M.A.B.Ed. in English Communication in 2014.
5	Yoga	Yoga session is a part of time table where students perform yoga. Also Institute conducts meditational and spiritual programs/sessions through "Art of Living" concept by trained Yoga personnel.
6	Health and hygiene	MOU has been signed with a multi-specialty Hospital named 'CARE Hospital', Solapur. In every department first-aid boxes are available. Sufficient numbers of dustbins at proper locations are made available in department to maintain cleanliness and hygiene.
7	Fire Extinguishers	For safety against fire accidents adequate numbers of water points, sand buckets and fire extinguishers are available in the campus.
8	Newspapers at hostels	English and vernacular language newspaper to develop communication skills and get updated with current news and affairs.

4.1.3 How does the institution plan and 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).

Ever since its inception in 2008, the Institute has been keeping pace with the changing needs and requirement to meet its academic growth. To keep pace with the needs and requirements, additional infrastructure is being added from time to time. In the last four years, additional facilities have been developed by the Institute. Specific Examples of the facilities developed/augmented is shown below.

- A separate Internet Laboratory comprising 80 Systems with standard configuration is purely meant for knowledge dissemination.

- The Campus augments disposes high end Internet Wi-Fi facility apart from wired Internet as it is crucial for outgoing students of all disciplines for projects, seminars, technical paper presentation, campus interviews, job opportunities, attempting General aptitude, Technical aptitude, downloading lectures and discourses of prominent Professors of IITs, NIITs and other reputed International and National Universities.

- The Mechanical Dept. has a state of the art IC Engine testing lab.
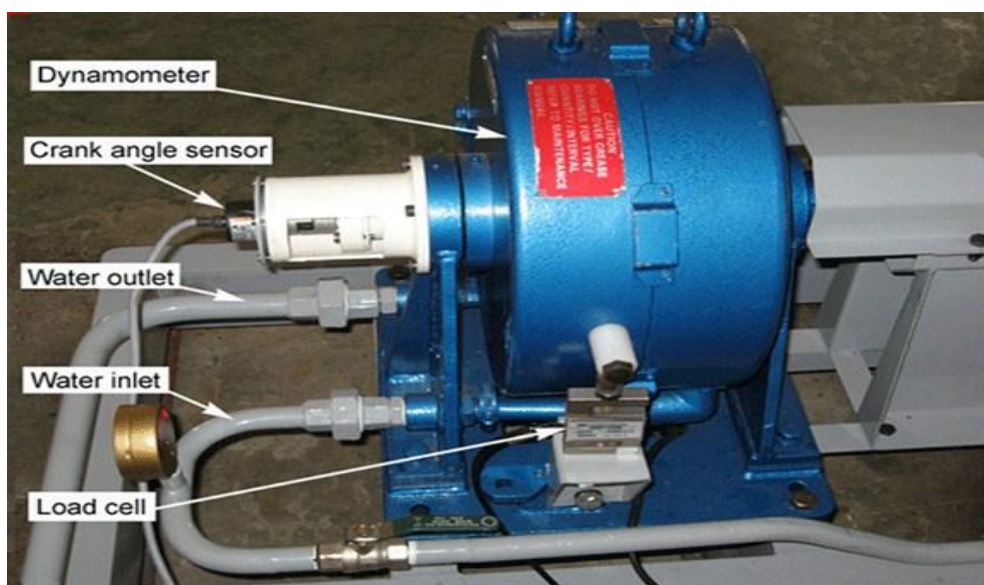
Fig. 4.1 Snapshot of IC Engine Dynamometer

Fig. 4.2 Snapshot of complete IC Engine

- The Electronics and Telecommunications Dept. has setup a Sophisticated Robotics Laboratory. The details of the amount spent on the facilities are attached as separate sheet.

Year	2012-2013	2013-2014	2014-2015	2015-2016
Cost in Lakh	18.53	13.5789	49.28751	14.75415

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

- Seats are reserved in the Institute buses for students with physical disabilities.
- Facilities for ease of mobility such as ramps, hand railings, etc. are provided. Institute is in the process of installing elevator facility for the same.
- In the classrooms the seating arrangement is made in order to provide ample legroom and comfort.
- The amenities such as toilets are constructed for ease of access to such students.
- Separate wheel chairs are provided for easy maneuverability within the Institute campus

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

Table 4.3: Details on the residential facilities and various provisions available

Sr. No.	Available Residential Facilities	Various Provisions Available within them
1	**Boys' Hostel :** Total Number of rooms : 36 Capacity of each room : 04 Total Capacity : 144 Occupancy : 65 **Girls' Hostel :** Total Number of rooms : 18 Capacity of each room : 04 Total Capacity : 74 Occupancy : 25	• Excellent cyber campus facilities (Wi-Fi enabled), • hygienic drinking water processed through RO Plant • Uninterrupted power supply • Reading room, • Indoor games • Mess • Ventilated spacious rooms, attached WC and bathroom • Hot water facility through three large dedicated Solar panels installed on roof top of Boys and Girls Hostel • Intercom facility • Medical facility
2	Recreational facilities like carom, chess, football and volley ball available separately for boys' and girls' hostel and gymnasium; yoga centre is shared with the Institute.	Playground available for Outdoor games like softball, cricket, basketball, volleyball, and indoor games like table tennis, carom boards, chess boards. Well-equipped Gymnasium and regular yoga classes are conducted
3	Library facility in the hostels	Library facility is available in the hostel and also central library is open for 24 hours which is near hostels.
4	Computer facility including access to internet in hostel and Wi-Fi facility	Round-the-clock internet facility of 100 Mbps, connected to central server through LAN (Local Area Network). Also our Institute campus is having facility of Wi-Fi connectivity.
5	Facilities for medical emergencies	MOU has been signed with a multi-specialty Hospital named "CARE Hospital", Solapur. In every department first-aid boxes are available. Sufficient numbers of dustbins at proper locations are made available in department to maintain cleanliness and hygiene.
6	Common room with audio – visual equipment.	Yes, available recreational facility -common room with Television equipment.

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?

• First Aid Box with Medical facility available. Medicines like anti-pyretic and analgesic, antiseptic ointments, antibiotic tablets etc. are usually administered through Doctor.

- Institute is very near to the Suburban City Solapur. Hence any emergency cases are referred immediately to nearby doctors within the vicinity of the Institute. And Institute provides Vehicle for conveyance.

- Apart from this MOU has been signed with a multi-specialty Hospital named "CARE Hospital", Solapur. In every department first-aid boxes are available. Sufficient numbers of dustbins at proper locations are made available in department to maintain cleanliness and hygiene.

Regular health camps are organized.

4.1.7   Give details of the Common Facilities available on the campus spaces for special units like IQAC, Grievance Redressal unit, Women's Cell, Counseling and Career Guidance, Placement Unit, Health Centre, Canteen, recreational spaces for staff and students, safe drinking water facilities, auditorium, etc.

Table 4.4: Details of the Common Facilities available

Sr. No.	Available Common Facilities	Description
1	IQAC	Spacious Hall with intercom facility and furniture with washroom facility.
2	Grievance Redressal unit	There is an internal complaints committee which looks after the grievances.
3	Women's Cell	Women's awareness activities are being conducted regularly; issues of sexual harassment are discussed and resolved.
4	Counseling and Career Guidance	Senior faculty members of the department interact with students such as slow learners, pessimistic, disoriented by family issues are being counseled by HOD and senior faculty regularly and these efforts have contributed immensely to the growth of such students.
5	Placement Unit	Institute Training and Placement Officer and departmental coordinators coordinate with each other for consistent placements in good companies.
6	Health Centre	Two cots and separate room in ground floor of Boys' hostel.
7	Canteen	Canteen facility with girls, boys section and staff section available.
8	Recreational spaces for staff and students	Recreation space for staff and students is available in the campus
9	Safe drinking water facilities	Centralized purified filtered drinking water is made available 24/7.
10	Auditorium (SAMARTH HALL)	Used for technical workshops, short term training program, faculty development program, seminars, guest lectures, parents meet and other orientation programs.
11	Security	Robust security services are available.

4.2 Library as a Learning Resource

4.2.1 Does the library have an 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?

Role of Librarian:-College librarians carry out a variety of tasks including cataloging books, determining budgets, maintaining library materials, assisting students and conducting research. They may have their own small staffs and assistants as well.

The library has an Advisory Committee. Composition of Library Advisory Committee is as follows:

Table 4.5: Advisory Committee

Name of the Committee member	Designation
Prof. V.V. Potdar, Vice Principal	Coordinator
Mr. P.R. Hiremath, Librarian	Member Secretary
Prof. S.B. Gadwal, HOD, Mech. Dept.	Member from Department of Mechanical Engg
Prof. M.A. Khureshi, HOD, Comp. Dept.	Member from Department of Computer Engineering
Prof. S. J. Ligade, HOD, EandTC Dept.	Member from Department of Electronics and TelecommEngg.
Prof. T.D. Maslekar HOD, Civil Dept.	Member from Department of Civil Department.
Prof. R.B. Kulkarni, F. E. Coordinator	Member from Department of General Science
Mr. M. S. Tanawade, Librarian, Vasundhara College, Solapur	External member from Institute

The following significant initiatives have been implemented by the committee to render the library, Student/user friendly:

- The library has procured NPTEL videos of more than Two Tera Bytes to enhance the students knowledge base across the multiple streams.
- The committee has a plan and coordinating the execution of the requisite procedures for the functioning of the Central library.
- E-book Library Management Software "e-Lib" and Honeywell Barcode scanner installed in library systems enables fast issuance and receipts of books.
- Ample number of newspapers in various languages, science magazines, career training digests, professional bodies' journals, Employment News available.

- The librarian collects the Question Papers of the University after the Exam and prepares Question paper/Question Banks of various subject's departments.

- Book bank facility provided to select course/branch seeing the frequency and availability of the volumes.

- Drinking water facility in the library available.

- Prepared Vision and Mission statements of the Library

- Collecting requirement of books, journals, magazines etc. from all departments for every academic year and recommend to the management through the Principal for necessary procurement.

- Recommendation for update of the available/required books with new editions.

- Prepared time table as well as schedule for working hours. During exam time, the library works in extended hours in the evening.

- Created awareness among the faculty members and students about the use of the reference books, other useful books in the library, use of digital library and other library facilities through notices and circulars.

- Prepared library rules.

- Ensured the up gradation of the library to keep pace with the technological developments.

- It also looks after that other infrastructure of the library is proper for smooth functioning and students' requirements are met.

- The departmental libraries are provided with for necessary assistance by the library committee.

4.2.2 Provide details of the following:

- Total area of the library: 716.51 Sq. Mts.

- Total seating capacity: 160

- Working hours (on working days, on holidays, before examination days, duringexamination days, during vacation)

  On all working days, on holidays, before and during examination day:

  Issue Section and Journal Section Timing: 9:30AM to 5:30 PM

  Reference Section Timing:

          9:30AM to 5:30 PM

  Reading Section :   9:30AM to 5:30 PM

During Vacation:

Issue Section and Journal Section Timing: 9:30AM to 5:30 PM

Reference Section Timing: 9:30AM to 5:30 PM

Reading Section: 9:30AM to 5:30 PM

During Examination:

Issue Section and Journal Section Timing: 8:00 AM to 8:00 PM

Reference Section Timing: 8:00 AM to 8:00 PM

Reading Section: 8:00 AM to 8:00 PM

'Marathi Bhasha Sanvardhan din' is celebrated every year on 27th Feb. since 2015 by library department. A seminar on DELNET is arranged frequently for awareness of library resources. Mr. Rathod Rohidas, Network Assistant, DELNET, Pune had guided students for utilization of network efficiently on 2nd Sept. 2016. The birth anniversary of Dr. S. R. Ranganathan is celebrated every year on 10th August as Librarian's Day.

Table 4.6: Library Details

Sr. No.	Particulars	Qty.
1	Total Volumes	20461
2	Titles	2885
3	Total Amount	7868382. 00
4	Available CD	1012
DONATED BOOKS		
1	Total Volumes	250
2	Titles	110
JOURNALS		
1	National	29
2	International	03
3	Periodicals	05
4	Total Journals	37

5	Total Amount	77513.00
1	Newspaper	12

ME (MANUFACTURING PROCESS)

1	Total Books	90
2	Titles	40
3	Total Amount	38959.00

MEMBERSHIP

1	DELNET (Developing Library Network)	11500.00

LIBRARY AREA

1	Reading Area	170.26 Sqm.
2	Book Store	172.40 Sqm.
3	Digital Library	21.17 Sqm.
4	Lobby and Internal Stair	48.68 Sqm.
5	External Staircase	21.17 Sqm.

First Floor

6	Reading Section	245.95 Sqm.
7	Rest room	21.17 Sqm.
8	Store room	15.11 Sqm.
9	Total Area	716.51 Sqm.

LIBRARY STAFF

Sr.No.	Name	Designation	Qualification	Experience
1.	Mr. P.R.Hiremath	Librarian	B.A., M. Lib., and I. Sc., M. Phil.	10Years
2.	Mr. S.B.Londhe	Asstt. Librarian	M.A., M. Lib. and I. Sc.	8 Years
3.	Mr. B.D.Hiremath.	Library Attendant	L.T.C.	6Years
4.	Mr. S.S.Madyal	Peon	B.A.	4 Years

Sr. No.	Branch	Title (Nos.)	Volume (Nos.)	Amount (Rs.)
1	Mechanical Engineering	501	3894	14,44,460.00
2	Electronics and Telecommunication Engineering	505	5274	20,16,421.00
3	Information Technology	456	3143	13,28,313.00
4	Computer Engineering	463	3462	13,82,158.00
5	Civil Engineering	454	2257	9,74,656.00
6	General Science	506	2431	7,22,374.00
	Total	**2885**	**20461**	**78,68,382.00**

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 procuring new books, journals and e-resources during the last four years.

Over and above the requirements of AICTE, departments raise the indent of books and journals as per the requirements of the respective programmes and courses. These are placed for discussion in the library committee who review the requirement and recommend the same to the Principal for adoption. The Principal takes necessary action for procurement taking into account the budgetary and other provisions. The Institute library follows the Open Access system. Books are classified according to OPAC Software and are placed on the stacks. The availability of a particular book can be confirmed by searching the Library software database (OPAC). Reference books are also available in the library along with newspapers. Separate periodical section is available for faculty member and student. The amount spent on procuring new books, journals and e-resources during the last four years is attached as separate sheet.

4.2.4 Provide details on the ICT and other tools deployed to provide maximum access to the library collection? OPAC

Online Public Access Catalogue (OPAC) provides the maximum access to the library collection searching by

- Subject name
- Author name
- Title of the book
- ISBN No.
- Year of publication
- Accession No.
- Record No.
- Place of Publication
- Publisher name etc.

Electronic Resource Management package for e-journals:

Institute library has subscribed the following Electronic Resource Management package for journals such as DELNET, freeware, webinars etc.

Federated searching tools to search articles in multiple databases

Institute library has available the DELPLUS Software purchased from the DELNET (Developing the Library Network), New Delhi. This software provides searching tools to search articles in multiple databases.

In house/remote access to e-publications

On campus both Faculty and students can access to e-Publications like E-journals, E-books through LAN or Wi-Fi connectivity.

Library automation:

It includes accession of books, barcode generation, OPAC, Circulation of books and various reports etc. are automated through software 'e-Lib'.

Total No. of computers for public access:

There are 10 computers which are available for public access.

Total No. of Printers for public access:

Dedicated Printing facility is made available for public access.

Internet Band width/speed: Internet speed 100 Mbps.

Institutional Repository: Project reports of students of all branches are stored in chronological ordering in the Departmental library for easy access to the respective department.

Participation in Resource sharing networks/consortia (like Inflibnet)

Library has the Institutional membership of DELNET. It participate in resource sharing networks of DELNET. Through this network, procuring of the books and other reading materials for faculty members and students is done on Inter Library Loan basis.

4.2.5 Provide details of the following items:

- **Average number of walk-ins** :150 to 200 per day

- **Average number of books issued/returned**: 50-100 per day

- **Ratio of library books to students enrolled**: 1:5 students

- **Average number of books added during last three years**: 200 Approx. (As most of the departments are dependent on e-books)

- **Average number of login to e-resources**: 20 Approx. per day •

- **Details of "weeding out" of books and other materials**: NIL number of books till date.

4.2.6 Give details of the specialized services provided by the library Information deployment and notification

All the library information, instructions and notifications are brought to the notice of the faculty members and students alike from time to time like: Issue and return of long pending books, arrival of new journals and periodicals, Submission of requirement for books and journals from the departments, use ofE-resources, use of digital library and it's details and to refer the reference books on large scale in the library etc. in this respect.

Download

The library provides help to faculty members and students alike to download their articles and research papers of interest of their domain from the E-journals subscribed, also augments the printing facilities to faculty members and students in this regard.

In house/remote access to E-publications

Both Faculty and students can access to E-Publications like E-journals, E-books through LAN or Wi-Fi connectivity.

User Orientation and Awareness

The library always gives the information to the faculty members and students about the newly arrived books and total library holdings by displaying the information on notice boards in the library, circulating notices in this respect through departments and on Institute website. The existing intranet and internet facilities are used for information dissemination. The software MS-Office Outlook Express is vigorously utilized for this purpose.

Assistance in searching Databases

Library staff helps to faculty members and students for searching the various library databases subscribed by the library. It includes DELNET Databases of books and journals, e-journals databases, e-books etc. in digital library.

INFLIBNET/IUC facilities:

Library facilities are provided by using software e-lib, e-resources are provided with DELNET, NPTEL, J-GATE etc for access of research papers.

4.2.7 Enumerate on the support provided by the Library staff to the students and teachers of the Institute.

The support and help provided by the Library staff to the students and staff of the Institute is as follows:

- Helps to obtain information about the books located in the library.

- Provides Guidance regarding searching of OPAC at Help-Desk.

- Provides information to pick the book quickly based on the queries like Author name, Title of the book, Publication, Edition etc.

- Guidance regarding search of E-journals articles and research papers.

- Reprographic facility is available in library

- Downloading and preserving the hard and soft copy of study material.

- Facilitate the staff and students about the new arrivals through displaying the books and journals on the proper display boards and circulating notices in this respect and also updating this information on the Institute's website.

- Book bank facility is available to the students

4.2.8 What are the special facilities offered by the library to the visually/ physically challenged persons? Give details

Though currently Institute does not have visually/physically challenged persons so far, however the system is in-place to meet with arrangement available.

For visually impaired, the basic software like adobe acrobat reader in which option is available for any person to hear the content clearly. (Library staff would help aid the visually impaired to listen the documents through available head phones at their own place).

Physically challenged students are encouraged to look at the web pages of OPAC Institute site and contact through e -mail and request for any book or journal, which may be delivered as per the existing rules of Library.

4.2.9 Does the library get the 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 Centralized Feedback system is available in the Central Internet Facility comprising of 80 systems. Non-teaching staff are entrusted the work of getting the feedback of all students in a phased manner. The feedback is taken twice in a semester, one at the beginning of the semester and the other one at the end of the semester. This feedback is kept confidential and only the Management, Campus Director, Principal, Vice Principal, Academic Dean and all Heads of Departments are authorized to view, respond and take disciplinary and corrective actions in consultation of all stake holders to remove lacunae and discrepancies. This is a major step towards transparency and refurbishing of the system.

The online feedback is taken from the students about library once in a semester at Institute level by member of Library Advisory Committee. Whatever lacunae/ discrepancies are brought to the notice of the concerned feedback authority by the student that is sent to the library advisory committee. Suggestions are taken cognizance of through Library Advisory Committee. Also a suggestion box is kept in the library. The suggestions are collected and analyzed by the Library Advisory Committee. During committee meetings in every semester, students and faculty suggestions are analyzed and considered for improving the library services. Also, there is a Library Guest Register, as and when

any distinguished guest visits Library, suggestions or feedback or advice are being taken to improve the library facilities and services.

4.3 IT Infrastructure

4.3.1 Give details on the computing facility available (Hardware and software) at the institution. Number of computers with Configuration (provide actual number with exact configuration of each available system)

Number of Computer Systems: 376 with latest configuration.

Table 4.7: Computer Configurations

Sr. No.	Particulars	Nodes
1	Dell Inspiron560's Desktop – Intel Dual Core 2.9 GHz, 2Gb DDR2 Ram, 320Gb SATA HDD, 18.5" Dell LCD Monitor, Dell Keyboard and Mouse.	122
2	Dell OptiPlex 380 Desktop – Intel Dual Core 3.0 GHz, 2Gb DDR2 Ram, 500Gb SATA HDD, 18.5" Dell Lcd Monitor, Dell Keyboard and Mouse.	99
3	Frontech Xilo Desktop – Intel Pentium 2.5 GHz, 2Gb DDR2 Ram, 250Gb SATA HDD, 18.5" LG Lcd Monitor, Logitech Keyboard and Mouse.	89
4	LG MY PC Desktop – Intel Pentium 1.8 GHz, 1Gb DDR2 Ram, 160Gb SATA HDD, 17" LG Lcd Monitor, LG Keyboard and Mouse.	66
	TOTAL	**376**

Computer Student ratio: 1) UG 1:5   2) PG: 1:1

- Standalone Facility   : 100 Computers
- LAN Facility   : Available with 100 mbps Speed
- Wi-Fi Facility   : Available throughout the campus
- Total Licensed softwares   : 130 Nos.

Some important licensed soft wares are mentioned below-

- ➢ Microsoft Office   : 70 Nos.
- ➢ Microsoft Operating System : 130 Nos.
- ➢ Microsoft Visual Studio   : 35 Nos.
- ➢ MATLAB   : 25 Nos.

> ➢ Xilinx   : 25 Nos.
>
> ➢ Eagle PCB Design   : 02 Nos.
>
> ➢ Proteus Simulation   : 25 Nos.
>
> ➢ Uni-Graphics Bundle   : 10 Nos. (Solid-Edge / CAD)
>
> ➢ GRAAM + +   :02 (Geographic Information System)
>
> ➢ Number of nodes or computers with Internet Facility: 200

4.3.2 Detail on the computer and internet facility made available to the faculty and students on the campus and off-campus?

The Institute has separate computer centre facility looked after by System Administrator with internet browsing.

Table 4.8: Internet facility

Service provider	Bandwidth	Contention Ratio	Connectivity Type
Reliance Communication	100 Mbps	1:1	Leased Line

- Internet service is available for both students and faculty in the campus.
- Institute campus connected to central server through LAN which provides Internet facility of 100 Mbps speed.
- Wi-Fi and round-the-clock Internet facility of 100 Mbps broad band leased line is provided.
- Students and Staff can also browse e-Journals through digital library.
- Resources for conducting online examinations exist in the Institute.

4.3.3 What are the Institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?

- Computer systems have been procured with latest configuration.
- Individual up gradation of the computers is taken up as per the need and requirements of the various departments.
- Enough provision is made available in the annual budgets for the procurement of the Computer systems.
- Once new systems are procured, they replace the existing systems as per the requirements of the departments.
- All the computer systems in the campus are regularly monitored by the System Administrator and Maintenance staff under the domain of Department of Computer Engineering.

- All the UPS and Computer Systems are maintained regularly by the Department of Computer Engineering and a Log book is maintained. It is an initiative towards in house maintenance.

- The trouble/problems in computers experienced by the concerned in charge staff are entered in the Complaints Register which is kept in the Department of Computer Engineering. Then the Maintenance Staff will attend the respective labs for identification of the problems and resolves the same at the respective places. In case of major problems i.e. Replacement of component/part during warranty they are sent to the respective service centres and got replaced at the earliest.

- All the servers are in AMC with respective service providers and are maintained regularly as long as it is in warranty period. Once warranty expires, Computer Engineering department looks after the maintenance.

4.3.4 Provide details on the provision made in the annual budget for procurement, up gradation, deployment and maintenance of the computers and their accessories in the institution (year wise for last four years).

Amount spent for procurement, upgradation, deployment and maintenance of the computers and their accessories in the institution during last four years is attached as separate sheet.

4.3.5 How does the institution facilitate extensive use of ICT resources including development and use of computer-aided teaching/learning materials by its staff and students?

- The Institution has adequate computer facility for its faculty. Faculty members are provided with desktop computers with Internet facility for preparation of teaching/learning materials in their respective departments.

- Each department has its own computing facility based on the curriculum demand.

- Number of computer laboratories and number of computers in each laboratory vary from department to department.

- The faculty and students can access e – resources available in the library through Wi-Fi facility and also through computing facilities available with each department.

- Lectures recorded to video, audio or both then uploaded and made viewable on a designated site online especially useful for students' self-learning.

- Digital library with 500 e-books and e-journals as made available as a library resource.

- Ten Multimedia projectors are available within the Institute for the faculty use.

- Each department in the Institute has individual seminar halls provided with LCD projector, PA system, Internet facility, NPTEL Videos, Soft skill Videos and Moodle Software.

- Developed Language laboratory for the students with interactive software.

4.3.6 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 centre of teaching-learning process and render the role of a facilitator for the teacher.

- The Institute understands that the teachers have to be reoriented from time to time. The Institution encourages the staff and technical assistants to undergo training on the computer aided teaching and training and conducts departmental seminars and workshops for training on computer applications (viz. Power Point, Ms Word, Ms Excel, Ms Access and other necessary skills).
- The Department of Computer Engineering also organizes training sessions on the use of Internet for learning resources, conducting seminars and workshops in various fields related to use of computer hardware and software.
- NPTEL video lectures arranged for faculty members.
- Institute conducting the usage based training on the available learning resources and usage of audio-visual facility.

4.3.7 Does the Institution avail of the National Knowledge Network connectivity directly or through the affiliating university? If so, what are the services availed of?

NPTEL Videos are available for students and staff through server.

4.4 Maintenance of Campus Facilities

4.4.1. How does the institution ensure optimal allocation and utilization of the available financial resources for maintenance and upkeep of the following facilities (substantiate your statements by providing details of budget allocated during last four years)?

Bottom up approach is uses in preparing the budget and allocation of funds accordingly for maintenance and upkeep of the facilities. Review meetings are taken for effective utilization of the funds.

Table 4.9:Budget figures for last four years

Year	2012-2013	2013-2014	2014-2015	2015-2016
Cost in Lakhs	4.5300	18.5000	5.5578	7.8000

4.4.2 What are the institutional mechanisms for maintenance and upkeep of the infrastructure, facilities and equipment of the Institute?

Table 4.10: Infrastructure and Facility

Infrastructure and Facility	Maintenance Description
Class Rooms	Well-furnished class rooms are cleaned regularly. Each Department appoints a Cleanliness Coordinator from amongst the teaching faculty who regularly inspects and reports to the competent authority i.e. HOD for any discrepancy.
Seminar Halls	Seminar hall of each department is maintained by in charge faculty and Technician at regular intervals.
Tutorial Rooms	Tutorial rooms are cleaned every day and maintained by concerned employees.
Laboratories	A faculty in charge and a laboratory technician looks after the maintenance of each laboratory. They propose the budget for the required consumables, new equipment, repairs and calibration if required.
Equipment	Technicians maintain the log book for equipment of the laboratory. They prepare the preventive maintenance schedules under the guidance of faculty-in-charge and carry out regular maintenance as per the schedules.
Computers	The Computer Engineering department is responsible for maintenance of systems and software and they carryout maintenance of each computer at regular intervals and record it in the maintenance log book. Faculty in charge prepares necessary budget and submits to HOD.
Main Library	The main Librarian is responsible for the books accession. All the books are accessed through serial accession.
Dept. Library	Department Library had procured ample number of books. Faculty members of departments can borrow books from their respective Dept. Library, and students in their free time can make use of the books available in the Dept. Library. One Faculty member is made in-charge of the Dept. Library.
Internet /Intranet	Internet related matters are maintained by a team of faculty, systems administrator and programmers in Computer Engineering department.
Electricity	Maintenance Engineer, Technicians and attender look after the maintenance of electricity.
Water	Sufficient water available to meet requirements of garden and toilets. It caters needs of Staff andStudents, Buildings etc.
Civil Maintenance	Maintenance committee will look after the civil structure at regular intervals and do the needful work whenever required.
Security	There are Watchmen who work on shifts. The Institute hired the services of a reputable security agency. The area of the Institute is under CC TV cameras.

4.4.3 How and with what frequency does the Institute take up calibration and other precision measures for the equipment/instruments?

Laboratory in-charge ensures the equipment/ instrument in respect of his/her laboratory are in working condition. In case of break down, the departments take the initiative to calibrate the precision instruments for their optimum and assured performance, once in year. Calibration is done annually through AMC. For example some of the following calibration measures are :-

- All computers are formatted, disks are defragmented, viruses are cleaned, duplicity of files checked and removed for optimal use in every semester.
- All mechanical instruments and machines are lubricated, repaired and calibrated in house for minor problems. But for major problems outside agency is called upon.

4.4.4 What are the major steps taken for location, upkeep and maintenance of sensitive equipment (voltage fluctuations, constant supply of water etc.)?

The Institute has wide spread arrangements for power connections with a central substation, Control panel and Power room. Breakers are available at substations control panels are available at power room. Panels and Distributions boxes are available at Individual Departments.

CRITERION V: STUDENT SUPPORT AND PROGRESSION

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 document and how does the institution ensure its commitment and accountability?

Yes**,** the institution publishes prospectus annually. The copy of prospectus is given along with the application form to every candidate who applies for programmes of the Institute. Prospectus is also available on the Institute website www.agpit.edu.in

The prospectus reflects the entire scope of the Institute profile. It contains

- Brief history of the institution
- Vision, mission, objectives and quality policy of the institution.
- Information about the UG and PG programmes.
- Facilities in departments such as laboratories, etc.
- Facilities of the Institute such as central library, internet etc.
- Facilities in the Hostel
- Result analysis and departmental activities.
- Training and placement cell activities.
- Information regarding various co-curricular and extra-curricular activities.
- Meritorious prizes data.

Institute ensures its commitment and accountability through regular interaction with faculties, students, student council meeting, feedback, parents' meet, and review of results, placement and academic calendar and by implementing the rules and regulations as published in the prospectus.

In addition to the prospectus, the Institute newsletter published biannually. It also provides information about the important events that happened during the semester. The institution website is updated regularly to provide the latest information to the stake holders.

5.1.2 Specify the type, number and amount of institutional scholarships / freeships given to the students during the last four years and whether the financial aid was available and disbursed on time?

- Institute offers 10% concession in the tuition fees for direct second year students admitted from sister concern Institutes of Shanti Education Society.

- Every year class topper and runner from each Department receives Rs. 1000/- and 500/- as a cash prize. Best Outgoing Student (BOS) of each year receives Rs.1000 as a cash prize.

- The Institute allows students to pay their fee in installments.

- The Institute admits students under Tuition Fee Waiver Scheme (TFWS) of AICTE, New Delhi.

- All government and AICTE scholarships are available to students.

- Institute helps students to get the scholarship and free ship under central and state government schemes. Under this scheme SC/ST/VJNT/SBC and OBC students are provided all the kind of assistance and guidance to fill up the e-scholarship forms.

- Internet facility is provided to students for online submission of scholarship form.

- Amount of scholarship is directly transferred in the student's bank Account.

Table 5.1: Details of scholarship/Freeship etc.

Year	Type of scholarship	category	No. of students	Amount of scholarship (RS)
2011-12	Scholarship	OBC	93	2431373
		VJNT	62	3320385
		SC	54	2854440
		SBC	49	2553610
		TOTAL	258	11159808
	Freeship	OBC	48	1271121
		VJNT	17	848345
		SC	30	1611160
		SBC	9	472300
		TOTAL	104	4202926
	EBC	OPEN	248	6336732
	Minority scholarship		13	325000
2012-13	Scholarship	OBC	100	2754200
		VJNT	70	3927130
		SC	68	3722620
		SBC	59	3290005
		TOTAL	297	13693955
	Freeship	OBC	40	1106490
		VJNT	16	856540
		SC	26	1474950
		SBC	19	1067305
		TOTAL	101	4505285

	EBC	OPEN	249	6369160
	Minority Scholarship		16	400000
2013-14	Scholarship	OBC	89	2711295
		VJNT	57	3396596
		SC	62	3763643
		SBC	51	3023002
		TOTAL	259	12894536
	Freeship	OBC	45	1368116
		VJNT	23	1416255
		SC	15	865065
		SBC	9	512766
		TOTAL	92	4162202
	EBC	OPEN	264	7398865
	Minority scholarship		19	475000
2014-15	Scholarship	OBC	74	2284877
		VJNT	54	3332782
		SC	59	3889937
		SBC	70	4351009
		TOTAL	257	13858605
	Freeship	OBC	27	810698
		VJNT	17	1068338
		SC	17	1114440
		SBC	06	377466
		TOTAL	67	3370942
	EBC	OPEN	223	6606743
	Minority scholarship		31	775000
2015-16	Scholarship	OBC	68	2104782
		VJNT	48	2981923
		SC	51	2768961
		SBC	56	3477717
		TOTAL	223	11333383
	Freeship	OBC	19	584760
		VJNT	14	868183
		SC	14	1009573
		SBC	2	123956
		TOTAL	49	2586472
	EBC	OPEN	141	4255530
	Minority scholarship		21	525000

Table 5.2: Best Outgoing student details of last four years

Sr.No.	Academic year	Name of student	Branch
1	2012-13	Mr. Anand Kale	MECH
2	2013-14	Ms. Prachi Phophale	COMP. ENGG.
3	2014-15	Ms. Vimalaxi Asareddi	COMP. ENGG.
4	2015-16	Ms. Karishma Shaikh	COMP. ENGG.

5.1.3 **What percentage of students receives financial assistance from state government, central government and other national agencies?**

Table 5.3 Percentage of students receiving financial assistance

Academic Year	% of students receiving scholarship	% of students receiving Free ship	% of students receiving EBC	% of students receiving minority scholarship	Total % students receiving financial supports
2011-12	28.53	11.5	27.43	1.44	68.9
2012-13	33.45	11.37	28.04	1.8	74.66
2013-14	30.22	10.73	30.8	2.2	73.95
2014-15	32.28	8.4	28.01	3.89	72.58
2015-16	34.25	7.52	21.65	3.22	66.64

5.1.4 What are the specific support services/facilities available for?

- **Students from SC/ST, OBC and economically weaker sections**
- **Students with physical disabilities**
- **Overseas students**
- **Students to participate in various competitions/National and International**
- **Medical assistance to students: health centre, health insurance etc.**
- **Organizing coaching classes for competitive exams**
- **Skill development (spoken English, computer literacy, etc.,)**
- **Support for "slow learners"**

- **Exposures of students to other institution of higher learning/ corporate/business house etc.**

- **Publication of student magazines**

Facilities available for Students from SC/ST, OBC and economically weaker sections:

- The students belonging to SC/ST/OBC avail the Scholarship / Freeship as provided by the Government. These students are provided every possible help to get the Government scholarships.

- Institute offers prizes to meritorious students.

- Offers concession in tuition fee for economically weaker students as well as gives installment facility for payment of fees.

- Offers EBC concession to students belonging to economically backward classes of Open category

- Institute offers "Earn and Learn Scheme" for selected number of students.

Students with physical disability:

The Institute is providing the following facilities to the differently able students

- Facilities for ease of mobility such as ramps, hand railings, etc. are provided.

- In the classrooms the seating arrangement is made in such a way to provide ample legroom and comfort.

- Examination halls are provided at the ground floor.

- Extra time is given for examination of theory paper.

- The amenities such astoilets are constructed at ground floor for ease of access to the differently abled students on ground floor.

- Preference is given for hostel / in campus accommodation.

Overseas students:

No overseas students have been admitted in the Institute.

Students to participate in various competitions National and International:

- Information is circulated among students about various paper presentations, seminars, project competitions, model makings etc. as well as notified on notice boards. Students are guided by faculty members for participation in these competitions. Usage of laboratories and computer facilities, e journals, library, workshop etc. is extended to students.

- Students are encouraged to participate in National/ International competitions, seminars/workshops / design contests.

- Every year in even semester Institute organizes various technical and non-technical events to develop critical thinking, creativity among students, by organizing "AGTECHFEST" a national level symposium of various technical activities. It had been organized on 7th March 2017.

- Large numbers of students participate in various events organized outside the Institute.

- Good numbers of students get prizes in events organized by Inter University and Inter Collegiate events.

Medical assistance to students: health centre, health insurance etc.:

- Institute offers accidental insurance to students by following guidelines of Solapur university in collaboration with Tata Aig General Insurance Co. Ltd., by collecting 15 Rs. per student.

- Free-dental checkup camps are held in the Institute.

- Institute arranges blood donation camp every year.

- Free health check-up is arranged.

- The Institute looks after the main concern of the students' health by providing purified water from the RO treatment plant to prevent water borne diseases.

- Institute has a part time Medical officer for medical checkups. Complete medical checkup is provided whenever necessary. Well known hospitals in Solapur city are in vicinity and can be approached easily.

- Every departmentand central workshop is availed with first-aid kits for providing emergency care or treatment.

Organizing coaching classes for competitive exams:

- Institute provides coaching classes for competitive exams. It is scheduled accordingly and implemented with effectiveness.

- Students are motivated for appearing exams of civil services and expert lectures are arranged for the same.

- The Training and Placement cell identifies the need and provides the training through internal and external agencies to the students. Mock Personal Interview and Technical interview sessions are run through in house faculty. The Institute also organizes guidance sessions to students for higher education or through expert talks. MoUs have been signed with professional GATE

training Institute (Vidyalankar Academy, Mumbai) for training students from third year engineering itself.

• Aptitude tests are arranged by student's organizations in each department.

Skill development (spoken English, computer literacy, etc.):

• A separate language laboratory is available to improve the communication skill of the students. The laboratory is equipped with audio and video facility and special software to enhance the communication skill.

• Students are encouraged to participate in paper presentations, seminars, paper publications etc.

• Students and faculty members are encouraged to use NPTEL, Webinar facilities.

• Students are encouraged for certificate courses of NPTEL, Swayam etc.

Support for "slow learners":

• Academically weak students are identified every semester and remedial classes are conducted.

• Students discuss their difficulties with the faculty in person.

• The department appoints a mentor who identifies slow learners and provides them counseling and

coaching.

• Faculties are instructed to create interest of students in the subject by giving practical examples, arranging video sessions, arranging expert lecture etc.

Exposuresof students to other institution of higher learning/ corporate/business house etc

• Students are motivated to pursue higher studies.

• Students are encouraged to take the trainingin the industry to get the experience about the current technology.

• Institute arranges industrial visitsfor students to get the first hand information about the industries and their technologies.

• Students encouraged to attend Industrial Training, Industrial Visits, Visits to Local Exhibitions like "Sthapatya" , "Electro" etc.

• Workshops on entrepreneur development are organized for the students to enhance the business development qualities in students.

• Institute arranges industrial visit every year for students.

Publication of student magazines:

• Institute level magazine 'AGLOMERATION'is published every year which highlights various student's related activities, student's articles and various events organized in the Institute.

• Newsletter is published biannually which includes all Institute related activities in particular semester.

• The magazine stands out to reveal those investigate poets, journalists, creative writers, thinkers and boosts the confidence within students.

5.1.5Describe the efforts made by the institution to facilitate entrepreneurial skills,

among the students and the impact of the efforts.

An Entrepreneur Development Cell (EDC) was started in order to expose the students to aims and objectives of entrepreneurship. An advisory committee has been formed to guide and monitor the activities of EDC. The committee meets once in 3 months and takes stock of the development activities and advice for further developments and suggest future activities to be taken by the Cell.

Entrepreneurship awareness program is conducted to the interested students and for faculties through the MCED (Maharashtra State Cell for Entrepreneurship Development) on regular basis. Students get every detail about entrepreneurship through the experts from necessary field like finance, marketing research and others. In order to see actual industry, to get practical exposure industrial visits are organized.

Objectives of Entrepreneurship Development Cell:

• To make them realize their dream business through innovative products and to develop greater entrepreneurial culture within the institution.

• To create awareness among students on industrial opportunities and on the availability of financial assistance enabling them to start their own industrial ventures.

• The mission is to promote entrepreneurship-led innovation, thereby creating "Nation of Entrepreneurs" driven by creativity, initiative, risk taking, discipline and personal development.

Entrepreneurship Development Cell Activities:

Table 5.4 Shows list of activities conducted under EDC, which helped to develop Entrepreneurial skills in students.

Table 5.4: Activities Conducted Under EDC

Sr.No.	Program	Resource person	Year
1	Indo-Germen tool design	Mr. R.N. Kulkarni, Trainer Indo German tool room, Aurangabad.	2012
2	Recent Trends in Electronics	Dr.A.B. Gambhire Vice President Marathi Vidnyan Parishad.	2013
3	Two Days Workshop on Revit Architecture software	Mr. V.B. Bolli, Expert in Revit Arch. Solapur.	2015
4	A Expert Lecture on Quality required becoming Good Entrepreneur and how to minimize gap between theoretical and practical aspects of civil Engineering.	Er. S.S. Furde Former President- Confederation of Real Estate Developers' Associations of India, Solapur	2015
5	Skill Development Program	Prof. M.R.Joshi, Asian Academy of Professional Training, Pune.	2016
6	Industrial approach and how to built industry oriented personality?	Mr. S.P. Gudur, Asst. Engineer, Thermax Ltd, Pune	2016
7	A Expert Lecture on Industry Institute Interaction	Mr. S. Phatak HR Manager, Rohan Builders, Pune	2016

The Impact of the these efforts: students start to think to be a entrepreneur which will be in line with our mission " Make in India"

Table 5.5: List of entrepreneur students

Sr.No	Name of the student/ Alumini/ Faculty Enterpreneur	Graduating year (Applicable for Student/Alumini)	Name of the Company Incubated
1	L.C. Maindergi	2013-14	Samarth Computer sales and

			Services, Solapur
2	Om Akude	2013-14	Web Sure Technologies, Pune
3	Akanksha Jadhav	2013-14	Vitra tech Systems, Pvt. Ltd, Hyedrabad.
4	Suhas Adamane	2014-15	Spenca Mineral Water, Solapur
5	Yogesh Rupnar	2014-15	Ceramic Tiles Company, Solapur.
6	Swapnil Bhosale	2014-15	Swapnil Tiles Industry, Solapur.
7	Shirishkumar Ajitkumar Todkar	2014-15	Shirishkumar Todkar Consultancy, Solapur.
8	Raviraj Shinde	2014-15	Kirti Computers, Solapur
9	Jidnyasa Agnihotri	2014-15	Fruit Business and Generals, Solapur.
10	Pratik Paresh Bhuta	2014-15	Textile Enterpreneurs, Solapur.
11	Manoj Hatti	2014-15	Bharat Petrolium, Solapur
12	Nilesh Todkari	2014-15	Organic Pharming, Solapur
13	Priyanka Mahesh Pawar	2014-15	Software Training Centre, Pune.
14	Amruta Dhayfule	2014-15	Dhyfule Textile Mills, Solapur
15	Basavraj Kaytari	2014-15	S.S. Mobile Technologies Mumbai
16	Mohan Jadhav	2015-16	Mohan Online, Solapur.
17	Parbat Karansinh Vijaysinh	2015-16	Parabat Constructions, Kurduwadi
18	Amir Sikandar Shaikh	2015-16	K.G.N. Construction, Solapur.
19	Faizan Md. Ibram Shaikh	2015-16	Traders Enterpreneur, Solapur

20	Ram Chavan	2015-16	Publicity and Tent House Supplying Company, solapur
21	Jayant Pansare	2015-16	Raj Mani Entertainment, Kolhapur
22	Harshal Mokal	2015-16	Electrotech System, Solapur.
23	Vishal Ghule	2015-16	ASA Technology, Pune
24	Shrikrishna Giranivaddar	2015-16	Krishna Construction, Solapur.

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, quiz competitions, debates and discussions, cultural activities etc.

- **additional academic support, flexibility in examinations**
- **special dietary requirements, sports uniform and materials**
- **any other**

The institution is promoting students for participating in various extra-curricular activitiesby ensuring consistent encouragement and motivation. The necessary facilities are provided. The sports and cultural committees arrange and coordinate the extra-curricular activities. The Institute has bagged several prizes for students showing remarkable performance in extra-curricular activities. These are ceremoniously presented at the hands of an eminent guest on the prize distribution day during the Annual social gathering function.

Institute has the following policies/strategies:

- Awareness lecture on importance and role of extra-curricular activities in career building.
- Identification of talent among students from mentoring mechanism.
- Encouragement to the students to participate in events organized at Zonal level, State level as well as in inter Institute activities
- Various bodies are functioning to promote the participation of students in activities.
- To promote the participation of students as coordinators of events.
- In Prize distribution "General Championship"is given to any one department as per performance and participation in various activities Annual sport competition is organized every year in second semester and winners are honored by certificate and memento.

Provisions are made to encourage student's participation in extracurricularand co-curricular activities

- Participating students are treated as on deputation on Institute work
- Flexibility in conduction of internal tests/ examinations for participants.
- Academic guidance and extra practical facility is extended to the students participating   in

extra and co-curricular activities,

- Cash prizes are given to university, state, national level players.
- Additional extra time provided for projects/practical's to such students.
- Sports facilities are provided in the campus to encourage participation
- The physical director trains and encourages students in sports

Additional academic support

- To ensure active participation of students in sports and extracurricular activities, attendance exemption (with prior approval) is given.
- Provision to conduct extra lectures for topics missed by the students due to the participation in the sports, cultural and other extracurricular events.

Flexibility in examinations especially with respect to University exam and Sport students

- Arrangement of Re-test is made
- Assignments are given.

Special dietary requirements, sports uniform and materials

Institute provides sports kit and sports material to students who participate in International, State or National, Lead Institute, Zonal, Inter-zonal and University level competitions

Other Strategies

Department have their student associations under which various activities like paper presentations, workshops, seminars, and various competitions are organized every year to boost the hidden skills in students.

5.1.7 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 such as UGC-CSIRNET, UGC-NET, SLET, ATE / CAT/GRE/TOFEL / GMAT / Central /State services, Defense, Civil Services, etc.

- The institution arranges special coaching for preparation of GATE from professional trainers.
- Seminars are arranged that highlight the strategies of cracking the competitive exams.
- Expert Lectures are conducted for civil services.
- Institute displays notification of competitive exams in the campus like GATE
- Facility is made available for the students to fill competitive exam forms and assistance is given to them
- Books and learning material of competitive examinations are made available in library.
- Students can appear for online examinations by using facilities available at institution.

Table 5. 6: Students appeared and Qualified in various Competitive Examinations

Year	Exam	Qualified
2012-13	GATE	5
	Central/State Services	1
2013-14	GATE	15
2014-15	GATE	20
	Defense Services	1
2015-16	GATE	25
	Central/State Services	2

5.1.8 What type of counseling services are made available to the students (academic, personal, career, psycho-social etc.)

The Institute provides regular counseling services to the students to address the issues related to their academic, personal as well as career awareness.

Academic and career counseling:

The Institute has a mentoring scheme in which a batch of 15 to 20 students are assigned to each faculty member who counsel the students regularly and look after their academic as well as career related issues. First year students are informed by mentors about the scope and nature of the various subjects in the syllabus. The students are willingly offering choices of the elective subjects. Students are guided and counseled by mentor and Head of the department on academic and career prospects.

Personal and psycho-social counseling:

The mentor interacts with all the allotted students weekly and tries to identify the personal problems of the students. For this the students are made comfortable by providing a friendly environment so that they can share their personal problems with the mentor. The mentor concerned is very supportive in guiding them to solve their problems. The students face certain social issues or problems which tend to bring the inferiority complex in them. The teachers make it sure that no

such deterioration happens with the psychosocial understanding of the students. They are counseled to become better human beings and advised to stand tall for the social cause. Institute takes help of professionals on case by case basis.

Psychologist Dr. Prasanna Khatavkar is made available in the Institute for counseling as and when required. Students and staff are benefitted by the facility. Counseling programs are listed as below

Table 5.7: Counseling programs arranged

Sr no.	Topic	Speaker	Class	Remark
1	Diet and Yoga tips	Mr.Dhananjay Suryavanshi. Yoga Teaher, Solapur	Student and faculty	Personal counseling
2	Earning water	Mr. Ajit Oak JalTadnya, Solapur.	Student and faculty	Social
3	Lets play Exam. Exam.	Mr. Prashant Swami Member Vivekananda Kendra, Solapur	Students	Personal counseling
4	Motivational Lecture	Mr. Sanjay Bairagi,Teacher Solapur blind school, Solapur	All students	psycho-social counseling
5	Workshop on Stress Management	Ms. Swati Meshram National Education, Nagpur.	All students	Personal counseling

5.1.9 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 programmes).

Information of job opportunities

The Institute has a structured mechanism for career guidance for its students. Institute has a Placement cell that looks after the various opportunities for students and makes them aware of these opportunities by sending them e-mails, making phone-call, displaying placement notice on the notice board. The cell indentifies the need and provides the training through internal and external

agencies to the students. The pre-final year students undergo different training programs. We encourage the students of II and III year to undergo these programs.

Under the guidance of the Principal the Institutes Training and Placement Officer in coordination with Departmental Training and Placement coordinators carry out different activities related to both training and placement. Updated information is also made available on Institute website.

Activities:

- Collection of branch wise data and CV's of each student in soft copy.
- Arranging for training activities to enhance Aptitude and soft skills
- Arranging group discussions and mock interviews
- Arranging personality development sessions
- Arranging expert lecturers of Industry personnel
- Arranging industrial training
- Arranging expert lectures of alumni students.
- And lastly arranging Campus placement of different industries

Institute conducts special training classes on English and communication skills to improve the ability of the students in effective communication. This is useful for the students not only in facing interviews but also enhance the technical presentation skills (Oral and Written).
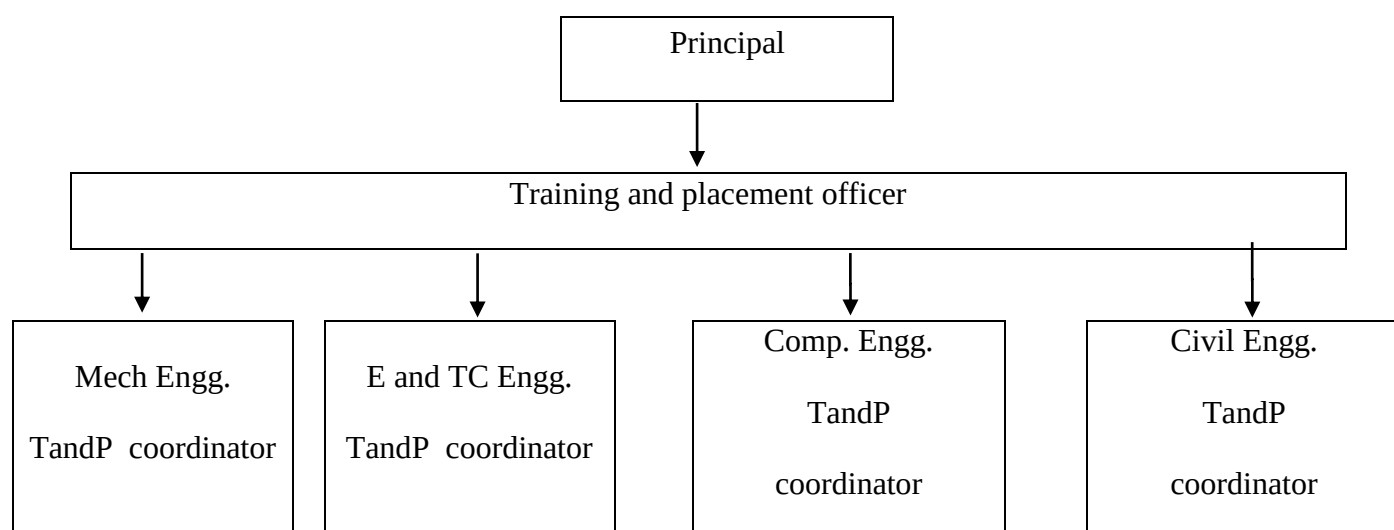
Figure 5.1 Structured Mechanism for Career Guidance and Placement (2016-2017)

Table 5.8: The details of Campus placement of last three year is as follows

Sr. No.	Programme/ Course	% of students Placed			
		2012-13	2013-14	2014-15	2015-16
1	Mechanical Engg.	16.11	28.57	16.48	12.24
2	E and TC Engg.	32.34	49.23	19.11	22.03
3	Computer Engg.	13.24	28.88	12.12	48.65
4	Information Tech.	15.15	46.87	35.41	48.57
5	Civil Engg.	---	66.67	22.22	27.27
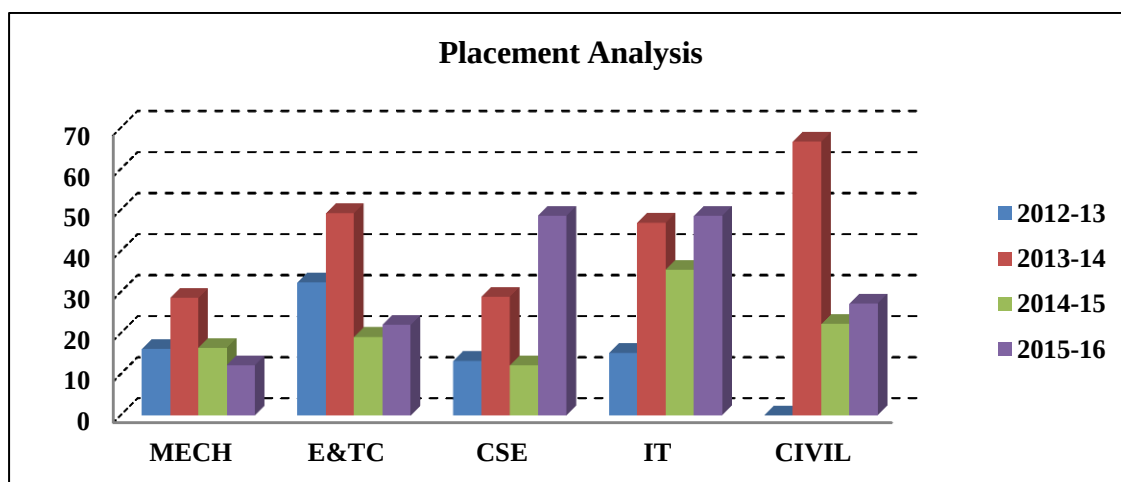
Figure 5.2: Institutional placement analysis

Table 5.9: Details of Training and placement activities

Date	Name of the Event	Name of Resource Person	Students Attended
23/01/2015	Germany Visit	Miss.Asha A. Kulkarni Trainer at Global Opportunity, Pune.	225
09/02/2015 to 11/02/2015	3 Day's Workshop on Java	Er.Asma Kaleem Sabungar-Technical Trainer-Techstar IT Solutions,Pune.	50+
21/02/2015 to 22/02/2015	2 Day's Workshop on C and C++	Er.Asma Kaleem Sabungar-Technical Trainer-Techstar IT Solutions,Pune.	31
25/02/2015	Communication Skill	Dr. S.K Tushar–Softskill Trainer VERTOIS Training and Consultancy Pvt.Ltd.Pune.	195
13/02/2015	Make in India	Dr. Rajesh GangakhedkarAssit. Professor at Institute of Public Enterprises, Hyderabad.	242
14/02/2015	Career Supervision	Prof.Vijay Navale well known Career Counselor Maharashtra State.	185

05/06/2015	Expert lecture on Embedded System	Prof. Ligade S.J. Asst.prof. AGPIT, Solapur.	15
13/07/2015	Career Building	Swami Sidheshanand-Chinmaya Mission-Pune	170
17/07/2015	Entertainment Show	3D Stars(DilDostiDuniyadari)	230
29/07/2015	Spoken English	Prof.A.D.Jamadar Freelancer (Communication Skill)	110
29/07/2015	Microsoft Technology Associates-MTA	Mr.Alok P Singh-CEO andMr.Bahubali Kandale-Director of TechnoWings IT Solutions,Solapur.	120
13/08/2015	How to Learn and Study	Assit.Prof.Reva H.Kulkarni(H.O.D.-Sanskrit Dept.)DBF Dayanand College of Art and Science,Solapur.	160
14/08/2015	MS-PRO Software	Er.Chetan Loni ,Alarcity Constructions Pvt.Ltd. Solapur.	86
06/08/2015	Basics of C and C++	Prof.S.R.Tandle H.O.D. Computer Engineering, M.S.Bidve Engineering College, Latur	108
19/09/2015	Personality Development	Mr.M.D.Kanade, CEO Aspire Training Academy, Solapur	165
21/07/2015	Expert Talk on Gate Exam-2016 By GateForum	Mr.Surya Prasad-Senior Manager Gate Forum,Pune	129
29/07/2015	Expert Talk How to Prepare for Gate By Gate Academy Banglore	Mr.Amit Saha-Senior Marketing Executive Gate Academy-Bangalore	115
15/07/2015	Seminar on Autodesk and Autocad Softwares	Mr.Bahubali Kandale Director,TechnoWings IT solutions, Solapur.	30
13/06/2015	2 Day's Workshop on Catia,Prof-E and 3-D Modeling	Er.Hanumanth Subhash Patil-Technical Trainer at Techstar IT Solutions, Pune.	230
07/09/2015	Personality Development and Howto get ready for Job	Prof.Chandrakant Sharma –Director, TMC,Mumbai	40
21/07/2012 to 22/07/2012	2 Day's Workshop on PCB Ddesign	Er.Subhash Akiwate CEO at Akiwate PCB Design,Pune	50
11/08/2015 to13/08/2015	2 Day's workshop on REVIT Architecture.	Mr.Bolli Vyanktesh, Expert in Revit Architecture, Solapur.	50

Table 5.10: List of employers

Sr.No.	Name of the company	Sr.No.	Name of the company
1	WebTech Developers Pvt.Ltd. Pune	21	UtraFireTech Systems Pvt.Ltd.
2	Reliance Infotech Pvt.Ltd.	22	SiNE-WAVE
3	Hi2Buy, Mumbai.	23	Tata Consultancy Services.
4	ProtoTechSolutions,Pune	24	Syntel, Pune
5	NitorInfoTech,Pune	25	Tech-Mahindra
6	3 Idea Technology,Mumbai	26	Dimentrix, Pune.
7	Bharat Wire Ropes Pvt.Ltd. Mumbai	27	Persistent Systems,Pune
8	RM Applied Engineers Mumbai/Solapur	28	PaRamatrix Technologies Pvt.Ltd.Mumbai.
9	Noble Wireless Communication Pvt.Ltd.Pune	29	Mphasis
10	Gemini Communication Pvt.Ltd. Mumbai.	30	Infosys,Pune.
11	EYWA Solution Pune Mustek Technology Pune DwijIT Solution Pune	31	3D PLM,Software Solutions Ltd.Pune.
12	TechDream Point Pune	32	Systematics Group of Companies,Mumbai
13	Ericsson,Pune	33	A-1 Fence Products P.Ltd.Mumbai.
14	HCL, Technologies.	34	Sankey Solutions, Mumbai
15	CMC Limited	35	NEXA Motors, Mumbai
16	CMS IT Services, Pune	36	Capgemini, Pune.
17	HNB Engineers Pvt.Ltd.Pune.	37	Gubbi Constructions, Solapur
18	Pratap Technology Services Pvt.Ltd.	38	Associates construction, Kolhapur
19	Flash-Electronics, Pvt. Ltd. Pune	39	Indian hume pipe , Miraj
20	Cognizant, Pune.	40	Compacite infra.Ltd. Mumbai

5.1.10 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 institution has a grievance redressal cell. Institute keeps suggestion boxes at several points within Institute sothat stake holders put their comments, suggestions, and requestswithout directly meeting to the authorities. Suggestions or complaints or feedback given on plain provides greater opportunity to serve stake hold better.

Table 5.11: Members of grievance redressal cell

Sr.No	Committee Member	Department	Position
1	Prof. V.V. Potadar	Vice Principal	Chairman
2	Prof. P.S. Swami	CivilEngg.	Member
3	Prof. G.R. Deshpande	MechEngg.	Member
4	Prof. A.S. Patil	Comp. Engg.	Member
5	Prof.R.V.Darekar	EandTCEngg.	Member
6	Dr. Mrs. P.R.Vedula	Gen Sc.Engg.	Member
7	Mr. Danish Md. Ibrahim Shaikh	CivilEngg.	Student Member
8	Mr. C.S. Tolanur	Mech. Engg.	Student Member
9	Mr. Anand Sunchu	Comp. Engg.	Student Member
10	Ms.Pratiksha Sargar	EandTCEngg.	Student Member

Table 5.12: Grievances Reported and Redressed

Sr. No.	Year	Grievances Reported	Grievances Redressed
1	2012-13	Students reported less no. of books in Book Bank	Book bank books increased

2		Water cooler and water purifier is not working in boys hostel	Maintaince is done
3		No hot water at morning in boys hostel	Solar panels are installed for hot water
1	2013-14	Wi-Fi of boys hostel is not Working	Problem was solved by repairing.
2		Mosquito problem due to grass grown around the boys and girls hostel	Insecticides were sprayed.
1		Inadequate drinking water facility in Institute campus	RO plant is installed and the pure water is supplied to each dept., workshop, library, hostels etc.
2	2014-15	Increase no. of food items in canteen	Problem was solved by instructing to canteen.
3		Less no. of fans in laboratories	problem was solved
1	2015-16	Screws of benches in the classrooms become loose	The problem was solved by workshop carpentry dept.
2		RO water is giving certain type of smell	The cause was detected and the problem was solved
3	2016-17	Electricity board in class was not working properly	The problem was solved by in house electrician.

5.1.11 what are the institutional provisions for resolving issues pertaining to sexual harassment?

Institute has an internal complaint committee in view of combat violence against womenemployees and students. Cell takes necessary steps if the incidents pertaining to sexualharassment require the intervention of the law. Cell is headed by a senior lady faculty. Continuous vigilance of Institute authority and strict punishment provisions prevent sexual harassment of students.

Institutional provisions for resolving sexual harassment is as follows:

- Institute has an internal complaint committee of teachers and girl students.

Table 5.13: Internal Complaint Committee 2016-17

Sr.No	Name	Designation	Status	Phone No
1	Dr. Vedula Padmavati	Associate Professor	Presiding Officer	7588246862
2	Prof.Mrs. A.B.Valsang	Asst. Professor	Member	8806562669
3	Prof. R.V. Darekar	Asst. Professor	Member	7875282080
4	Mrs. M.A Deshpande	Administrative staff	Member	7756099017
5	Mr. A.H Khan	Administrative staff	Member	8698338006
6	Mrs. Rajashree Patil	Social Worker	Member	9405549124
7	Mrs. D.A Jhaveri	Student	Member	9823552290
8	Ms. Ashwini Bhosale	Student	Member	9890594114

- Institute has adopted a common dress code for students.

- I-card and uniform is made compulsory in the Institute campus which helps in identifying outsiders quickly

- Institute has Discipline Committee including Head of Departments, staff and students to ensure security during academic session also including social gathering and events.

- Telephone number of police station, hospital etc are displayed in the Institute.

- Institute has close CCTV in the entire building including the vehicle stand.

- The Institute organizes programs awareness, self protection, women empowerment and laws for faculty, non-teaching staff and students.

Till date no such case of sexual harassment has been reported in the Institute.

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, our Institute has an anti-ragging committee. This committee monitors and prevents the ragging incidents. The Institute has a rich tradition of exemplary behavior of the students and the staff cordial cooperation, discipline, sincerity and mutual understanding with trust prevails on the campus. Following table shows members of anti-ragging committee.

Table 5.14: Anti-Ragging Committee

Sr.No	Committee Member	Department	Position
1	Dr.S.A.Patil	Principal	Chairman
2	Prof. P.R. Hedgire	CivilEngg.	Member
3	Prof. B.D. Andagi	MechEngg.	Member
4	Prof. A.A. Doshi	CompEngg.	Member
5	Prof.S.D. Pujari	EandTCEngg.	Member
6	Prof.Mrs. R.M. Bhaganagare	Gen ScienceEngg.	Member
7	Mr. D. I. Gaikwad	Police Inspector	Member
8	Mr. M. Kulkarni	Press Reporter	Member
9	Mr. D. Gosaki	Social Worker	Member
10	Mr.S. A. Mali	CivilEngg.	Student Member
11	Mr. S.M. Kotyal	MechEngg.	Student Member
12	Mr. R.S. Solankar	Comp. Engg.	Student Member
13	Mr. A.B.Pando	EandTCEngg.	Student Member
14	Ms. P. Bolade	General scienceEngg.	Student Member

Objectives and Activities:

Anti- ragging campaign is made through display of banners at all important places in and around the campus.No a case of ragging has been reported/detected during last four years.

5.1.13 Enumerate the welfare schemes made available to students by the institution.

The following welfare schemes are made available for the students.

- Provision of giving installment in paying Institute fee.

- Institute offers 10% tuition fee concessions to students who have completed diploma from the sister Institute and also wish to pursue higher education in the Institute.

- Institute provides fee installment facility to faculty members/employees pursuing higher education in the Institute.

- Institute provides books to needy students under Book-Bank Schemeat nominal charges.

- Cash award for semester toppers(details given in 5.1.2)

- Best outgoing student award(details given in 5.1.2)

- Health insurance policy issued for students. In collaboration with our university .For every academic year students are provided accident insurance which is covered from Tata Aig General Insurance.Co.Ltd. at the minimum expenses of Rs. 15 per student.

- The Institute is also having access to the nearby hospital in case of emergency.

- The blood donation camp is organized under NSS activity which ensures free access to blood banks in case of emergency.(Institute can avail 10 bottles of blood after every 100 bottles of donated blood.)

- Placement assistance for passed out and existing students.

- Institute helps students to get government scholarships.

- Institute has student grievance redressal cell, anti-ragging cell, internal complaint committee to address their grievances.

- In collaboration with the "Murti Communications,Ashok Chowk, Solapur , the institution assists all the students in opening Aadhar card and pan card.

- Health awareness, social awareness, environmental awareness   is created under NSS activities.

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?

Yes,Institute has a registered Alumni Association. Date of Registration: 25/01/2017

Registration Number:MAH/103/2017

Institute arranges Alumni meet every year**.** The Alumni takes this meet as an opportunity to interact with the juniors and also guidethem on various aspects. The alumni are in continuous touch with

theInstitute and provide their educational or employment related updates. All the information regarding Alumni association is provided in the website.

Table 5.15: Alumni association members

Sr.No.	Name	Member	Designation
1	Dr. S.A . Patil.	Principal	President
2	Prof. V.V. Potdar.	Vice - Principal	Vice - President
3	Prof. G R Deshpande	In - Charge	Secretary
4	Prof. A.A Doshi.	Faculty	Joint-Secretary
5	Prof. S.J Ligade.	Faculty	Treasurer
6	Prof. Ms. T.D. Maslekar	Faculty	Member
7	Mr. S. S. Patil	Student	Member
8	Mr. S. G. Prachande	Student	Member
9	Mr. S. G. Prachande	Student	Member
10	Ms.S.G Patil	Student	Member
11	Mr. C.G Deshmukh.	Student	Member

• Institute has alumni data base. We invite them to regular functions.

• Institute invites alumni to give the guest lecturers and interact with students to enhance the Knowledgeand skills of the students.

• Regular Student as well as alumni get the email account on Institute website which helps them to interact with Institute.

The alumni have immensely contributed to the development of the Institute in the following ways

• Providing guidance to the current students for the higher education and employment opportunities.

• Updating the current trends in the job markets. Motivate the students to become entrepreneurs.

• Providing study materials

• Sharing their experiences

• Expert lectures

- To help the Institute in bringing more companies and industries for campus placements.

- To review the changes and trends in the industry and giving inputs for design of curriculum.
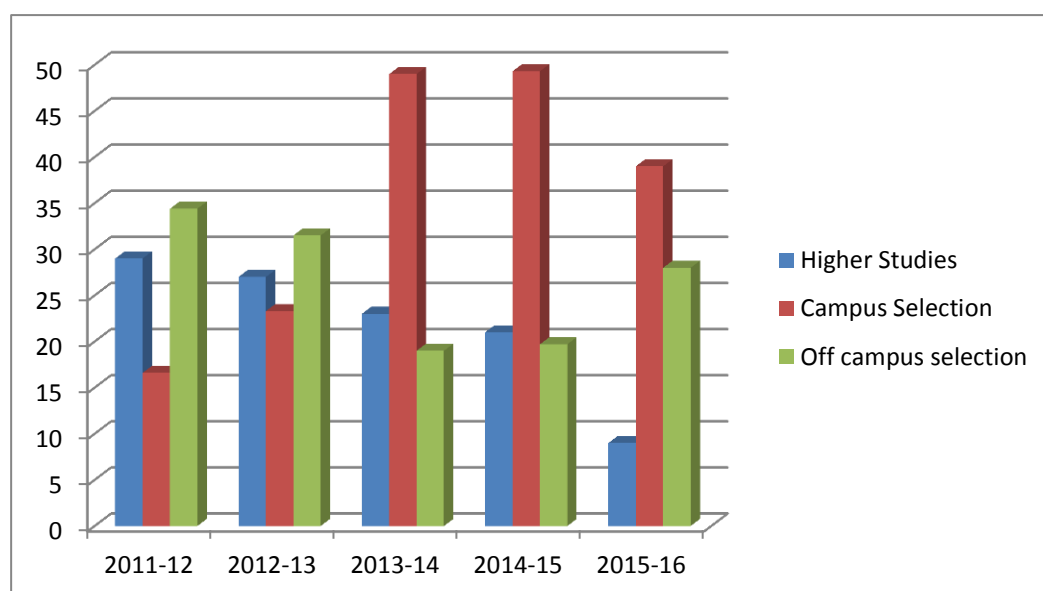
5.2 Student Progression

5.2.1 Providing the percentage of students progressing to higher education or employment (for the last four batches) highlights the trends observed.

Table 5.16: Branch wise student progression

Student Progression	Branch	Year				
		2011-12	2012-13	2013-14	2014-15	2015-16
Higher Studies	MECH	58%	51%	42%	42%	10%
	EandTC	20%	15%	10%	10%	5%
	COMP.	7%	12%	13.5%	6.5%	2%
	CIVIL	----	-----	16%	45%	14%
	IT	10%	20%	20%	10%	-
Employment **(Campus Selection)**	MECH	15%	16%	28%	16%	12%
	EandTC	15%	32%	49%	19%	22%
	COMP.	10%	13%	28%	12%	49%
	CIVIL	----	----	68%	22.%	27%
	IT	20%	15%	46%	35%	48%
Other than campus **recruitment**	MECH	20 %	30%	25%	30 %	6%
	EandTC	60%	55%	70%	65%	-
	COMP.	80%	60%	65%	20%	-
	CIVIL	----	-----	16%	23%	38%
	IT	70%	40%	50%	40%	-

	2011-12	2012-13	2013-14	2014-15	2015-16
Higher Studies	29	27	23	21	9
Campus Selection	16.6	23.3	49	49.3	39
Off campus selection	34.4	31.5	19	19.7	28

Table 5. 17 A: Summary of student's progression

Figure 5.3 Bar Chart of Student Progression

The trend of students opting for higher studies and employment has been quite steady, with an average of 25% students opting for higher studies and 50% of students opting for employment.

i. **Provide details of the program wise pass percentage and completion rate for the last four years (cohort wise/batch wise as stipulated by the university)?Furnish program-wise details in comparison with that of the previous performance of the same institution and that of the Colleges of the affiliating university within the city/district.**

Table 5.17 B: Branch wise passing rate of Institute

| Sr.No | Year of passing | Branch | No. of students | | % of passing | Overall passing % |
			Appeared	Passed		
1	2012-13	MECH	56	55	98.21	97.3
		COMP	43	41	95	
		EandTC	50	49	98	
		Civil	-----	-----	-----	
		IT	27	24	88	
2	2013-14	MECH	91	82	90.10	95
		COMP	60	58	96	
		EandTC	68	67	98.5	
		Civil	06	06	100	
		IT	40	39	97	
3	2014-15	MECH	92	69	75	80.44
		COMP	31	31	100	
		EandTC	58	53	91.4	
		Civil	09	09	100	
		IT	35	19	54	
4	2015-16	MECH	77	73	95	89.34
		COMP	52	48	92.30	
		EandTC	46	37	80.43	
		Civil	22	18	82	

Branch wise passing rate of institute
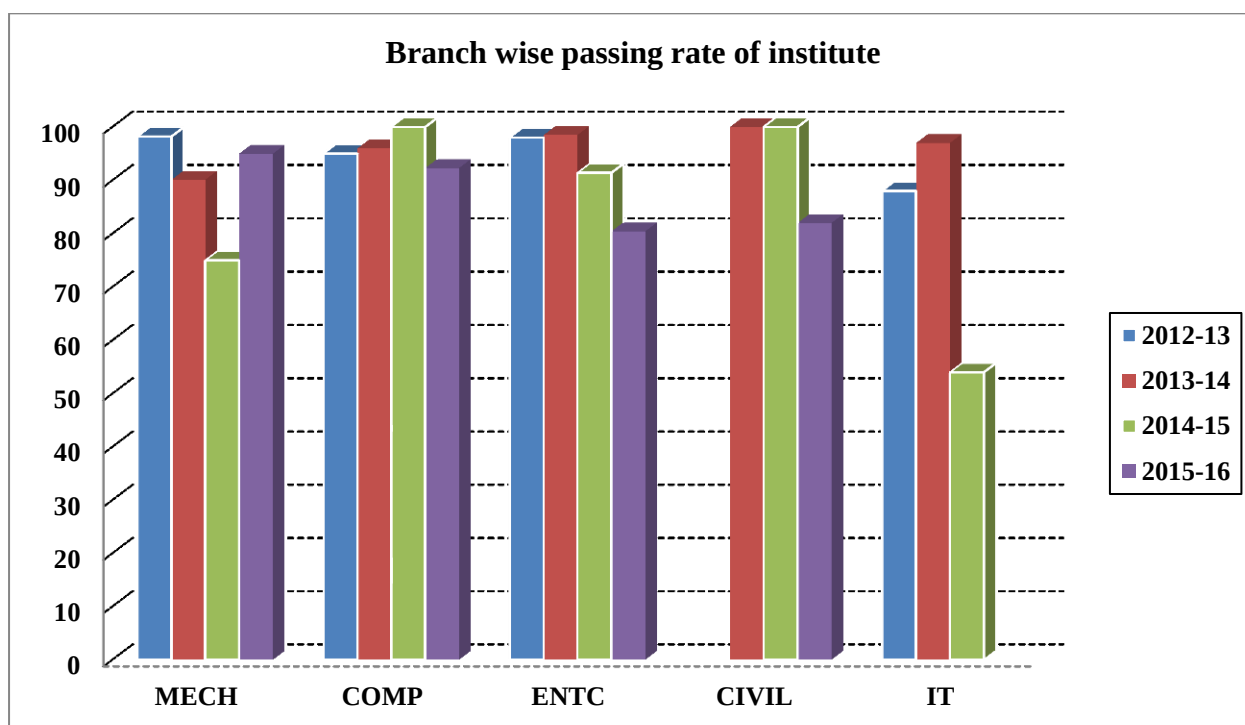
Figure   5.4 Branchwise passing rate of Institute

Result comparison with other institutes
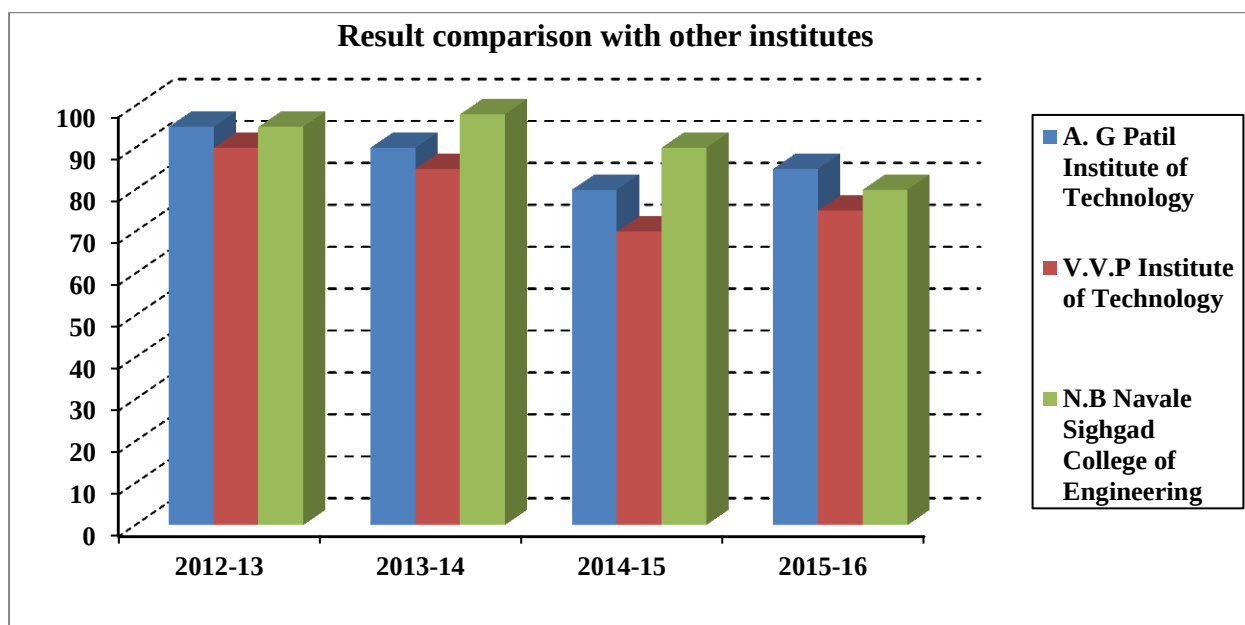
Figure 5.5 Result Comparision with other Institute

5.2.3 How does the institution facilitate student progression to higher level of education and/or towards employment?

Institute facilitates student progress to higher education and towards employment by the way of following measures.

- Institute arranges workshops, seminars, industrial visits, inplant training and programmes for students that bridge the gap between academic and industry.

- Institute has Training and Placement cell which informs the students about the available opportunities for higher studies as well as employment.

- Institute placement cell is taking untiring efforts to enhance student's chances of placement in the company. The thrust of the placement cell is to create maximum job opportunities for them in the market by establishing good relationship with the Industry

- Students are encouraged to appear for the exams like GATE.

- Institute arranges lectures of UPSC/MPSC qualified officers.

- Institute provides regular coaching for soft skills, aptitude tests, personality development etc.

- Necessary counseling is provided to prepare students to qualify entrance examination of higher education.

- Institute arranges entrepreneurship awareness workshops for final year students

- Institute arranges alumni meet every year.

- Students are encouraged for collaborative projects.

Table 5.18: List of industrial visits organized by various departments

Department	Industry visited
E and TC Engg.	220 KV MSEB sub station,Bale
	D.R.M.Office,Solapur
	D.R.M.Office,Solapur
	Enrich Energy Private Ltd., Mandrup
	Laxmi Hydraulic Punps, Solapur
	Srujan Foods (Parle), Solapur
Civil Engg.	Siddeshwar sugar factory, Solapur
	Kirloskar ferrous shivshashi, Solapur
	Central water Power and Research station, Pune Singhgad fort, Khadakwasala dam and an earthen dam

	Water Treatment plant at Soregaon,Solapur
	Koyna Dam, Koynanagar.
	Waste Water Treatment plant at Degaon Solapur
	Lavasa city- Pune.
	JETL (Jedimetla Effluent Treatment Ltd. Plant), Hyderabad
Comp. Engg.	Oracle India Pvt. Ltd.Bangalore
	Infosys, Pune
	Boreddees Technology solutions India pvt.Ltd. Hubali.
	Isoty software services India Pvt.Ltd. Mysore.
Mech. Engg.	Ultratech Cement , Solapur
	PISE Industries Solapur
	Kirloskar Brothers Ltd.Kolhapur
	Vijay Engg. Solapur
	Almatti Dam
	DudhPandhari Solapur
	Precision Camshaft Ltd., Solapur
	HutatmaSmiriti Mandir, Solapur
	PISE Industries, Solapur
	SMT Depot, Solapur

Table 5.19: List of Guest Lectures/Workshops Organized by Various Departments

Department	Name of guest/workshop	Topic
E and TC Engg.	Mr.Subhash Akiwate, CEO, Akiwate PCB design, Pune.	PCB Designing Workshop

	Mr. S.J. Ligade, Asst.Prof. AGPIT, Solapur.	Electronic Circuit Design and Simulation
	OSCAD	FOSEE(Free and open source software in education ,online)
Comp. Engg.	Mrs. Jadhav S. Software Engg., IBM Singapore	Expectation of IT industry from freshers
	Shalini Kumar, from NIIT Solapur	Training and placement
	Mahesh Talange, Infosys Technology, Pune.	Career Guidance
	Shashank Rangole, Lead at TCS, Pune	Enterprise resource planning
	Prof. Amey Doshi, Asst.Prof. AGPIT, Solapur	JAVA Training
Mech. Engg.	Mr. S. A. Jeurkar, Former secretary , IEI Solapur local commitee	Mechanical Engineer - Carriers in Oil and Gas Industries
	Mr. Ramjan Pathan, Lightining Drone, Solapur	Seminar on Quad copter
	Prof. Mitragotri P.P, Asst. Prof., WIT, Solapur.	Trunnion fixture design
Civil Engg.	Er. Kumbhar Sachin, Asst. Er. Maharashtra Jeveen Pradhikaran, Aurangabad.	Preparation of competitive exams in Civil Engg.
	Mr. Ritesh Khaire and Vijay Bamanalli Shree OM TMT bars,Solapur	Manufacturing of steel bars
	Er. Chetan Loni, Alacrity constructions pvt.Ltd., Solapur.	Selection criterion of Civil MNC companies
	Er. Deepak D. Maslekar PhD, Research Scholar, IIT Bombay	Fluid Mechanics

5.2.4 Enumerate special support provided to students who are at risk of failure and drop out?

The Institute is taking necessary efforts to improve the passing rate. The dropout is mainly due to incapability to understand the subject or due to inability in concentrating study. Institute evaluates the performance of students continually through assignments, unit tests, projects   etc.

Based on their performance, students at risk of drop out are identified and special measures are taken to cater to their learning needs and their skills. Institute conducts pre and post remedial classes for the students who are at the risk of failure and drop out. The mentor plays a supporting

role to motivate such students to improve the performance and avoid drop outs. Special supports provided to students who are at risk of failure and drop outare as follows:

- Special coaching
- Interaction with parent.
- Providing class notes, set of objectives, subject videos etc.
- Book bank and library facility beyond Institute working hours in examination period.

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.

The Cultural activities, games and sports are integral part of education. The Institute provides sufficient time and facilities for cultural, sports and gymnasium. The annual cultural and sports meet is held every year. The different cultural, sports and extracurricular activities are as follows:

- **Sports and Games:**

   Table 5.20: Outdoor and indoor sports and games facilities available in the campus.

Sr.No.	Outdoor/Indoor games	Sr.No.	Outdoor/Indoor games
1	Volleyball	6	Baseball
2	Cricket	7	Carrom, Chess
3	Kho-kho	8	Table-tennis
4	Kabaddi	9	Foot ball
5	Softball	10	Table soccer

Every year Institute organizes cultural week and execute various events like singing, dance, fashion show, drama in the annual social gathering ABHIYUVA. Also cultural events are organized on the occasion of Independence and Republic day. To reveal the talents of students in cultural activities, throughout year various activities are planned. Staff in-charges from each department and student's office bearers from various departments work for Annual Social gathering.

Extracurricular Activities:

The Department wise Students technical Associations organize various activities such as seminars, debate, guest lecturers, quiz, project competitions, group discussions, mock interviews, essay writing on a latest technical theme , technical paper presentation and industrial visits.

Every year students participate in various inter college tournaments organized by Solapur university in maximum numbers. Details of participation are maintained in each department. Following table reveals participation of students in inter university, state level and national level sports.

Table 5.21: Participation of Students in Games and Sports Activities for the last four years

Sr. no.	Date	Name of Tournament	Name of organization	Parti-cipants	Remark
1.	25/11/2011	Inter University Softball	Chandigarh-Panjab	3	Participation
2.	27 /12 /2011	Inter University Chess	Vellur-Tamilnadu	1	Participation
3	18/12/2012	Inter University Baseball	University of Delhi, Delhi	5	Participation
4	20/12/2012	Inter University Softball	Indoor-Madhya Pradesh	3 Boys 1 Girl	Participation
5	14/01/2013	Inter University Softball	Guntur, AndraPardesh	1	Participation
6	07/02/2013	Inter University Chess	Vellur, Tamilnadu	1	Participation
7	07/10/2013	Inter University Baseball	Rohatak, Hariyana	3 Boys, 1Girl	Participation
8	14/02/2013	State Level (Riffle Shooting)	Janta Bank Solapur	1	First Prize
9	18/02/2014	National Level Tennis Ball Cricket	U.P. Tennis Ball Cricket Association	3	Participation
10	10/03/2015	All India Inter University Softball	University Delhi	1	Participation
11	17/09/2015	All India Inter University Baseball	Acharya Nagarjuna Universiyt Guntur	1	Participation
12	05/01/2016	Inter University West Zonal Table Tennis	TIT RGPV,Bhopal	2	Participation
13	10/01/2016	Inter University West	DR.H.S.Gour	1	Participation

		Zone Cricket	Sagar,Bhopal		
14	23/03/ 2016	All India Handball	B.H.University, Varanasi	1	Participation
15	23/09/2016	Inter University West Zone Basketball	RTM.Nagpur University	1	Participation

Table 5.22 : Details of cultural activities conducted Academic Year 2016-17

Sr.No.	Activity	Date	participants
1	Teachers Day celebration	05/09/2016	25
2	Engineers day celebration	15/09/2016	42
3	Morya Festival	06/09/2016	60
3	Abhiyuva Days celebration	21/01/2016	160
4	Antakshari, Fun fare, Miss and Mr. AGPIT	21/01/2016	110
5	Cultural night	24/01/2017	80

Table 5.23: Details of NSS activities conducted

Sr. no.	Year	Activity	Date
1		Cleaning AGPIT campus	01/10/2011
2	2011-12	Outdoor camp at Gajanan Maharaj mandir at the time of Yatra, Soregaon	08/02/2011
3		Tree plantation at AGPIT campus	09/02/2012
1		Traffic awareness and rules	07/08/2012
2		Celebrated a Gandhi Jayanti	01/10/2012
3		Meditation Program for the faculty	13/10/2012
4	2012-13	Celebrated a Eco-Friendly Day	18/10/2012
5		Safety against terrorism	08/01/2013
6		Blood Donation Camp	28/01/2013
7		Tree plantation program within campus	16/02/2013
8		Camp at Gajanan Maharaj mandir Soregaon	23/03/2013
1	2013-14	Swami Vivekananda birth anniversary Celebration	01/10/2013
2		Chavan Automobiles (traffic awareness and rules)	25/10/2013

3		Blood donation camp	25/01/2014
4		Tree plantation programme	15/09/2013
5		Workshop on "Women's safety"	30/01/2014
6		Free dental camp	05/09/2014
7		Campus cleaning program	28/09/2014
1		A program on Student awareness to open saving account	02/01/2015
2	2014-15	Blood donation camp	23/02/2015
3		Tree plantation program	01/03/2015

5.3.2 Furnish the details of major student achievements in co curricular, extracurricular and cultural activities at different levels: University / State /Zonal / National /International, etc. for the previous four years.

Institute has many colors of achievement added to its hat. The summarized details of major achievements of students are as follows:

Table 5.24: Summary of students achievements

Students achievements	2012-13	2013-14	2014-15	2015-16	2016-17
Technical competitions	49	29	43	32	19
Seminar / Paper presentation	26	28	27	44	31
Sports	34	48	28	37	33
Cultural and arts	63	36	51	29	NA

In all, 172 students have bagged first / second prize in technical events organized by the Institute and other Institutes, 156 students have proved the paper presentation skills in and outside of the Institute, 180 students have won sports prizes and 179 students have shown excellent performance in cultural and arts section till date.

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 feedback

- For qualitative growth and development, Institute has set up online feedback mechanism common to all departments.

- All departments collect data from students regarding faculty performance every semester.

- Feedback data are discussed and necessary actions are taken.

- Feedback is collected for workshop, expert lecture after implementation.

- Feedback is collected by online as well as offline method as per the structure defined. It is analyzed by the discussion with staff members and committee members of advisory board.

Employer Feedback

- Training and Placement department collects the feedback from industry.

- The suggestions given by graduates, alumni and employers are taken into consideration

- The feedback helps in designing the training modules prepared by T andP cell for the current students.

The feedback can be used to:-

- Identify the academic and non-academic related problems and to find ways to solve such issues.

- Enrich teaching learning process.

- Develop faculty-student relationship.

- Improve training and placement activities

- At the time of training, interview as well as expert lectures

- To set the course objectives whenever required to improve the curriculum.
- Workshop, expert lecture feedback is used for understanding students need and improving sessions.

5.3.4 How does the college involve and encourage students to publish materials like catalogues, wall magazines, college magazine, and other material? List the publications/ materials brought out by the students during the previous four academic sessions.

Institute involves and encourages students for publishing articles etc. in following ways.

- Every mentor accesses his/her batch student's data and identifies the interests of individual student and accordingly student is encouraged to get involve in those activities.

- Institute publishesInstitute magazine "Agglomeration" once in a year. It covers articles on science, technology, personality development etc byStories, Poetry, Paintings, Photography etc.

- Every year Institute participates in Solapur University Magazine Competition. The students of the Institutehave made noticeable achievements in have bagged firstand second prize in various categories in recently.

- The faculty with experience and exposure in this particular area guide the students to explore themselves.

- The achievements of students and faculties are published in departmental Newsletter.

- The Institute also promotes the students to publish technical papers in National conferences, reputed journals and conferences held at different Institutes.

Table 5.25: Articles published by students in Agglomeration

Year	Sr. No.	Name of student	Class and department	Material/publication
2011-12	1	Sureshkumar Kandikatla	TE,Mech Engg.	Telgu article
	2	Abdul shaikh	TE, EandTC Engg.	English article
	3	Varsha bahiraje	SE,COMP. Engg.	Sanskrit article
2012-13	1	Gokul durgule	TE,Civil Engg.	Marathi article
	2	Sachin Kote	FE, Mech Engg.	Poem
	3	Varsha Korulkar	BE, EandTC	Drawing
	4	Ashwini cheela	BE,COMP. Engg.	Photography
2013-14	1	Rohit dube	TE,Mech Engg.	Hindi poem
	2	Mantesh Hatti	SE,Civil Engg.	Engilsh poem
	3	Basvaraj kotagonde	TE,COMP. Engg.	Kannad article
	4	Pratik Bhuta	TE,IT Engg.	Gujarati article
2014-15	1	Suryakant sawalkar	BE, EandTC Engg.	English article
	2	Sanjay ghuge	TE,Mech Engg.	Marathi poem
	3	Priyanka Mohite	BE, EandTC Engg.	Engilsh poem
	4	Mahesh Swami	BE,COMP. Engg.	Photography

Table 5.26: Student publication details

Sr. No.	Name Of Student	Title of Paper	Journal	Year
1	R.M Tellunagi., K.V Parbat.	Soil-structure interaction analysis for bare and infill frame	ISSN: 2455-2631 © IJSDR | Vol1, Issue 4	Apr-16
2	Chaitrali Jamadar Mantesh Hatti Sheetal More	Analytical Approaches for Soil Structure Interaction	e-ISSN: 2395 -0056 Vol: 02 Issue: 05 | p-ISSN: 2395-0072	Aug-15
3	D.MD.IB ShaikhF.AR Shaikh	Comparative Study Of Seismic Analysis Of Ground Storey And Parking Storey	e-ISSN: 2395 -0056 Volume: 03 Issue: 02 | www.irjet.net p-ISSN: 2395-0072	Feb-16
4	Chaitrali Jamadar Mantesh Hatti Sheetal More	Lateral Seismic Response Of Multistory Rcc Building	NITET-2016	Mar- 16
5	L.S. Arkal R.V. Bandgar F.A.S Kalekhan	Comparative study on conventional and simplified elastic analysis of rectangular combined footing	IJRET	Apr-14
6	V. B. Bolli	Developing graphical user interface for analysis of beam by using matlab software	IJRET	Apr-15
7	Manish Bansode Archana Ketliyar .Pooja Pilankar	Cell breathing techniques in wireless LAN.	National conference, Pune.	Mar- 13

5.3.5 Does the college have a Student Council or any similar body? Give details on its selection, constitution, activities and funding.

Formation of Student'sCouncil of our institution is conducted under section40(2) (b) of the Maharashtra Universities Act, 1994 and guidelines provided by Solapur university, Solapur. Students' council is to beestablished every year during the first term.

The selection of council members is done on the eligibility criterion defined by Principal and staff committee members. The number of candidates is then shortlisted by final interview and the best student representative for specific activity.

Constitution:

- Principal
- Principal nominated faculty (Student Council Faculty Coordinator)
- Physical Director
- NSS Program Officer
- University representative (GS)
- Ladies Representative
- Cultural Student Coordinator
- Sports Student Coordinator
- NSS Coordinator
- Magazine Coordinator

Activities:

- Coordination of different activities with students and student organizations

- Serve as the primary support to allocate funds which is provided by the Institute to student organizations

- Encourage the continual improvement of engineering education and professionalism within the Institute.

- Encourage membership in the engineering honoraria's, professional societies, and Institute committees and participation in Institute-wide events.

Funding:

Many activities of students' council and events related to students' development are funded by Institute itself. Few activities like NSS or students university level programs may funded by state and central government.

Table 5.27: Student Council for academic year 2016-17

Sr.No.	Members	Designation
1	Dr. S.A.Patil	Chairman
2	Mr. Akshay Dhawane	General Secretary
3	Ms. Afreen Shaikh	Ladies Representative

4	Mr. Sanket Bobe	Sports Secretary
5	Mr. Sagar Rajmane	NSS Secretary
6	Mr. Mahesh Jangalgi	Cultural Secretary
7	Mr. Vasim Patel	Magazine Secretary

5.3.6: Details of various academic and administrative bodies that have student representative on them.

The Institute creates a platform for the involvement of the students in various academic, administrative and other activities. This empowers students to gain qualities of leadership and governance.

Table 5.28: List of committees

Sr no:	Name of committees	Activities	Name of student
1	Student council	Act as a means of communication between students and management of Institute. To plan and conduct cultural activities in the Institute Help in smoothly conduction of academic and related activities.	Mr. Dhawane Akshay Ms. Afreen Shaikh Mr. Sanket Bobe Mr. Sagar Rajmane Mr. Mahesh Jangalgi Mr. Vasim Patel
2	Anti ragging	To create awareness in students regarding ragging	Mr.Mali Sandip Ashok Mr.Kotyal S.M Mr. Solankar Rohan Mr.Pando Amirkhan Ms. Bolade Priyanka
3	Grievance Redressal committee	To work on students problems	Mr.Shaikh Danish Md. Ibrahim Mr. Tolanur C.S. Mr. Sunchu Anand Ms.Pratiksha Sargar
4	Internal compliance comitee	To work on girls various issues	Ms. Bhosale Ashwini

5	Departmental Suggestion box Committee	To work on departmental issues	Student members
6	NSS Committee	It aims to inculcate the values of social service in the personality of the students. It organizes various programs like awareness rally, camps, and competitions every year.	Mr. Sagar rajmane
			Mr. Sneha Hanchate
			Mr. pramod Bandgar
7	MESA Committee	It organizes programs regularly to enhance the skills of the students.Students are the office bearers of department associations. Under these,academic activities like symposiums, workshops/seminars, paper presentation competitions, quiz, project Competitions are conducted	Mr. Sagar Burande
8	CESA Committee		Mr. Shubham Durugkar
9	ACES Committee		Mr. Sagar Yadav
10	SETCOM Committee		Mr. Peer Mulla
11	Magazine Committee	To plan agenda related to magazine, sorting of articles, collection etc	Mr. Vasim patel
			Mr. Rohit Mashale
			Ms. Priyanka Gunje
			Mr. Joyeb Bagwan
12	Cultural Committee	Decide and Organize cultural events in a year	Mr. Mahesh Jangalgi
			Mr. Abhilash Atanure
			Mr. Rohan Solankar
13	Sports Committee	To promote the students participation in sports	Mr. Sanket Bobe
			Mr. Onkar Swami
14	Discipline Committee	To maintain discipline at various organizational programs	Mr. Yelmeli Akshay
			Ms. Vijalaxmi Kalagi
			Mr. Tolnur Chandrakant
			Ms. Geeta Yemul
15	Industrial Visit and Coordination Committee	To plan for visit	Mr. Rathod Pradeep
			Mr. Shahjad Khairdi
			Mr. Vishal Otari
			Mr. Mayur Shinde

5.3.7: How does the institution network and collaborate with the Alumni and former faculty of the Institution.

- The institution keeps pace and relation with former faculty and the Alumni to take advise on the institutional academic and other development.

- It keeps touch with them through the Alumni association, mail etc and through alumni meet annually.

- Institute has an Alumni portal, Social Networking group which maintains regular interaction with former students.

- The staff of the Institute maintains contact with the teachers who have left the organization. These former faculties are invited for evaluation of practical vivaor for guest lectures.

CRITERIA VI:

GOVERNANCE LEADERSHIP AND MANAGEMENT

CRITERIA 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.

Vision

International Standing in Technical Education and Research, contributing towards Improvement and Empowerment of Society, Country and in turn, Mankind.

Mission

4. To develop technically sound and globally accepted professionals.
5. To enhance capability of updating with cutting edge technologiesand innovative researchideas.
6. To make aware of social commitments and highest ethical values as inner strength for upliftment of mankind.
4. To needlecraft career oriented courses and interactive teaching- learning process.

6.1.2. What is the role of top management, Principal and Faculty in design and Implementation of its Policy Manual and plans?

The policy of the Institute is well conveyed from the Vision and Mission statements which have been approved by the B.O.G. For implementing the policy, an action plan is prepared collectively by the Principal and the Heads of Departments. According to the action plan, specific roles are assigned to various faculty members.

Role of the Top Management: Shanti Education Society's Trustees.

- The Management regularly interacts with the Principal to review the implementation process of the quality plans.
- The Management committees regularly take overview of various academic functions, administrative functions and other functions ongoing in the entire organization. It randomly checks sample activities.
- The Management bestows operational autonomy to the staff within the boundaries of quality policy.

- The Management ensures a healthy, encouraging, participative and transparent environment needed for quality education.
- The Management considers the suggestions/interaction with various governing bodies like Board of Governors, Local Management Committee etc. positively.
- The Management meetings with Principal, Vice-Principal and H.O.Ds are conducted every two months for the review of Academic plan, budget plan,audit statement and modified plan are approved by B.O.G.

Role of the Principal:

- Principal, along with the Management, prepares the quality policy of the Institute.
- Principal along with Head of Departments, plans academics, teaching learning Process and research activities accordingly.
- Principal takes efforts to keep himself and staff/faculty of institution updated about the global education scenario, Research in education, industry and community expectations,
- He interacts with students and faculty and motivates them to achieve the Quality. The Principal contributes to develop the means and tools for measuring the quality through the Internal Quality Assurance Committee (IQAC).
- Principal takes initiative to develop the liaison with eminent academicians, Industries, professional bodies and renowned Institutes which help to plan and Implement the quality measures.
- The Principal proposes new initiatives to B.O.G. to strengthen to the quality policy

Role of the Vice-Principal

The vice-Principal is primarily responsible for ensuring thatthe academic activities of the Institute are being carried out to their fullest potential. His responsibilities cover the area of preparation of Academic Calendar, implementation of Curriculum, Students Administration and Academic Infrastructure.

The duties comprise of the following:

- Co-ordinate and monitor the planning,
- Organizing and execution of the academic calendar
- Monitor and act to improve the punctuality and the attendance of the students during lectures, laboratory work etc.

- View student's feedback on various courses and faculty in each semester and initiate necessary action, working with the Principal for the development of the faculty and organize tutorials for weaker students in courses where the success rate is low.

- Act to improve the student's results.

- Interact actively not only with students, but also with their parents on various issues as may be necessary from time to time.

- Ensure that the laboratories are not only adequately equipped but also facilitate conducting experiments beyond the University curriculum to cater to the industry requirements.

- Facilitate and encourage relevant and practical projects for the students to work upon.

- Ensure that the library resources are leveraged to the maximum possible extent; that the library stocks necessary books and journals so as to optimize the expenditure of the budget and that the library fulfills the requirements of library facility.

Role of Heads of Departments

Head of the Department is a leader of the Department.

The responsibilities of the Head in the academic and administrative matters are as follows:

- Plan, organize and monitor execution of the academic activities according to the calendar.

- Monitor coverage of the syllabus to ensure that the coverage is steady and smooth.

- Observe and analyze faculty's teaching and provide them with necessary feedback for improving the effectiveness. Devise ways of improving the overall teaching effectiveness of the faculty and the quality of the courses taught in the Department.

- Ensure Departmental discipline of the students; punctuality in classes and other lectures and activities.

- Ensure that the Departmental laboratories and library are academically adequate, used optimally, kept clean, and run efficiently.

- Encourage, facilitate and bring about more industry sponsored projects to the Department.

- Encourage and facilitate the faculty to present research papers and publish research articles. Encourage and facilitate younger faculty for higher educational studies and their personal overall growth.

- Arrange field visits / industrial training and guest lectures by eminent personalities per semester.

- Organize International/National Seminar/Conference in the Department.

- Conduct Departmental Meetings regularly and also as per need for adequate interaction with the faculty and staff.
- Ensure that the Departmental spaces and assets are maintained in good condition and beyond curriculum, including periodic stock checking activity.
- Facilitate extra-curricular activities for students, faculty and staff for the overall growth of everybody and creating a team spirit.

Role of the faculty:

The faculty plays a major role in the implementation of the quality policy. All faculty share their experience and expertise while implementing the quality policy.

Their role is as follows.

- To plan and deliver academics as per the quality policy.
- To develop themselves as role models for the students and to upgrade themselves continuously. Senior faculty is a role model for the junior faculty. It is the faculty who embeds values in the education.
- To fulfill responsibilities in three areas namely teaching, research and administrative activities like examinations related and course / program related work. Faculty has to contribute in various committees formed by the Principal. Faculty has to cooperate with each other so that the outcome is effective implementation of the quality policy.
- To develop quality measures for the evaluation of various processes.
- To counsel the students about quality in various activities.
- To take initiative to associate themselves with eminent research organizations, academicians, professional bodies and industries.

6.1 .3 What is the involvement of the leadership in ensuring:

- **The policy statements and action plans for fulfillment of the stated Mission.**

- **Formulation of action plans for all operations and incorporation of the same into the institutional strategic plan.**

- **Interaction with stakeholders.**

- **Reinforcing the culture of excellence.**

- **Champion organizational change.**

The involvements of the Institute leadership in ensuring various important aspects are as follows:

- Principal, vice-principal and Head of department prepare the action plan to implement the quality policy. IQAC is established in the Institute to evaluate and ensure the academic quality and implementation of action plans of the Institute .Plans include academic infrastructure and best practices which acts as an add-on for the improvement of quality.

- For ensuring the academic quality, the leadership formulates the action plans and also prepares the strategic plan for the implementation. It decides the funding, evaluation, appreciation, research and other strategies. It considers the previous experiences while deciding the strategies.

- The leadership interacts with stakeholders by organizing meetings which includes meetings with students, alumni and parents.

- Organizing the orientation, research, continuous development, career guidance programs for students and faculty.

- Inviting the eminent academicians, scientists, industry persons and sharing their views about achievement of excellence in related areas.

While formulating the policy statements and action plans, sufficient attention is paid to the following aspects:

- The academic terms, phases of teaching and examination programs are properly planned to meet the academic demands.

- Sports and cultural programs are planned and executed as per the rules and regulations of the University.

- The B.O.G. conducts meetings with Principal, vice-principal H.O.D's once in two months for the review of action plan and major policy decisions.

Following is the list of activities of the leadership showing its involvement in reinforcing the culture of excellence.

- The leadership appreciates the faculty / staff for academic achievements by arranging special programs or at the time of public programs.

- The leadership invites eminent academicians, scientists, industrialists and others to enlighten the staff on issues of the invitee's expertise.

- The leadership organizes orientation programs for teachers.

- The leadership organizes occasional meetings of the members of the Board of governance with the staff, to have a direct dialogue.

Following is the list of activities of the leadership showing its involvement in championing the organization change.

• The leadership has inculcated a sense of belonging towards the Institute among the staff.

• The leadership creates awareness among the staff and convinces them about the needed organizational changes. The leadership takes the staff into confidence before initiating the organizational changes.

• Following table defines Information of Expert Lectures.

Table 6.1: Expert Lectures

Sr. No.	Dept.	Name Of Expert	Subject	Year of event
1	EandTC Engg.	Prof. Priya Nerkar	Digital Technique	2012
2		Prof. C.B. Joshi	Microcontroller and Applications	2013
3		Dr. S.T. Patil	MATLAB	
4		Prof. Pradeep Dhage	VLSI Design	
5		Prof. Shrinivas Dhavale	Digital Communication	
6		Mr. Lankeshwar Richard	Fundamentals Of Robotics	
7		Mrs. Suhasini Shah	Adolescent Education	2014
8		Prof. Shrinivas Dhavale	Radar and Microwave Engineering	
9		Dr. Ravindra Hegadi	Pattern Recognition	
10		Mr. Ashish Fating	Circuit and Networks	
11		Prof. Hrishikesh Kulkarni	Microprocessor	
12		Prof. Vishwas Patange	Optical Communication	2015
13		Mr. Mayur Umbrajkar	VLSI Design	
14		Ms. Prajakta Rawale	SEPMS	
15		Mrs. Archana Khairat	General Awareness	
16		Mr. Valsangkar S.A.	German Spoken	2016
17	Civil Engg.	Er. Kumbhar Sachin	Preparation of competitive exams in civil Engg	2014
18		Near Inchgiri Math,	Manufacturing of steel bars	
19		Mr. Ritesh Khaire and Mr. Vijay Bamanalli	Qualities required to become Good	

20		Er. Sunil S. Furde	Entrepreneur and How to minimize gap between theoretical and practical aspects of civil engineering	2015
21		Er. Chetan Loni,	Selection criterion of Civil MNC companies	
22		Er. Shrikant Pathak	Industry Institute Interaction	
23		Er. Deepak D. Maslekar	Structural Mechanics- Design and Analysis	
24		Er. Kore P.N.	Preparation of MPSC Examination	
25		Mr. Dhanajay Suryavanshi	Health and Yoga	2016
26		Er. Deepak D. Maslekar	Fluid Mechanics	
27	Mech Engg.	Mr. Gudur S P,	Industrial approach and how to built industry oriented personality?	2016
28		Mr. Girish Dulange	Career Opportunities for Mechanical Engineers in Middle East "	2016
29		Mr.Ramjan Pathan	Computational Fluid Dynamics basics	2016
30		Mr.Ramjan Pathan	Rocket launcher	2016
31		Asian Academy of Professional Training	Skill Development Program	2016
32		TMC Academy, Mumbai	CRT Program	Every Year
33		Professional Trainer	Communication Skills	Every Year
34		Mr. Deshmukh A.V	3D Printing	2014
35		Mr. Ameya Khambete and Mr.Wasim Khan, Pune	3-D Printing Technology (Additive Manufacturing)	2014
36		Mr. Kulkarni R.N	Indo-Germen tool design	2012
37		Prof. U.A. Ankulge	Vibration	2012
38		Prof. K.H. Jatkar	Element Characterization	2011
39		Prof. Avinash Pede	Isometric scale template	2011
40		Prof. P. R. Kulkarni	Variable compression ignition	2011
41		Prof. D.V. Joshi	LPP application	2011
42		Prof. Gokhale	Applied mechanics	2010
43		Prof. Mitragotri P.P	Trunnion fixture design	2010
44		Prof. S.R. Tandale	C programming(Aptitude)	2010

45		Dr. B. S. Gawali	RAC	2016
46		Mr. Nitin Kale andMr Anil Honrao	EDP	2016
47		Mr. Nitin Kale	EDP	2015
48		Mr. Deshpande	Design	2014
49		Mr.Wathare	Boiler	2013
50		Mr Vijay Bunkar	Tool design	2012
51		Mr. S. M. Dodamani	Java Tools	2016
52		TechStar IT solutions	Java and J2EE	2017
53		NIIT, Solapur	Career awareness programme	2016
54		NASSCOM	Software Entrepreneurship in Solapur	2015
55		Ashotosh Sathe (Tipco, Pune)	HADOOP	2015
56		Mr. Kulkarni	Gateway Overseas	
57		Mr. Jaydeep Lakhane	Networking Devices	
58		Mr. Patil	Java	
59		Mr. Sumeet Joshi	Placement Awareness Program	
60		Mr. Paresh Degaonkar	IT Industry Today and Beyond	2014
61	Comp. Engg.	Mr. Sandeep Desai	Gate Coaching	
62		Mr. AshitoshSathe	Hadoop Tech.	
63		Porf. S R Tandale	Aptitude Training	
64		Mr. Chandrakant Sharma	CRT Program	
65		Mr. Miller Khandar	Entrepreneurship Development	
66		Mr. Sandeep Desai	National Level Aptitude Test	2015
67		Mr. Sandeep Desai	National Level Aptitude Test	
68		Mr. Roheet sir	SAP and ERP	
69		Mr. Shah	Consumer Awareness	2016
70		Mr. Amjadali Peshimam	Oracle Tech.	
71		Mr. Abhijeeet A More	Wireless Penetration Testing	
72		Mr. Veenit Joshi	CRT Program	2017

- Following table defines the MOU

Table 6.2: Information of MOU

Sr.No.	Name of the organization	Purpose	Date
1	Fantasy Technologies Solapur	Technical Training and Workshops	03/03/2017
2	Reliance Jio, Mumbai	Lab Set-Up	13/02/2017
3	NIIT, Solapur	Technical Training, Conducting Workshop and Placements.	09/02/2017
4	Informatics Publishing Limited Bengaluru	online journal access.	17/01/2017
5	DELNET Open Source Digital Library Networking New Delhi	Library Networking	31/12/2016
6	Vidyalankar Educational Services, Mumbai	for GATE Training through Video Conferencing.	15/12/2016
7	Corporate Bridge Consultancy Pvt.Ltd. Mumbai	CRT and free online certification courses	16/11/2016
8	Geometric Limited, Mumbai	Technical Training	15/09/2016
9	IIT Mumbai	Local access of NPTEL videos and online courses	23/08/2016
10	Treezec E-Solutions Pvt.Ltd, Mumbai	Campus Recruitment Training (CRT) Program	16/07/2016
11	Vibrant Minds Technologies, Pune	Placements	10/07/2016
12	Techno Wings International IT Solutions, Solapur	Training of Microsoft Technology Associates- for MTA (It's a Microsoft Certification Program).	16/06/2016
13	Spenca Mineral Water Solapur	Implant training and Internship of our students.	25/04/2016
14	Global Talent Track Private Limited Pune	Technical and Company physical classroom training	25/03/2016
15	Imperial Institute of Excellence Pune	Physical GATE Training classes,	18/09/2015
16	Swift Infocom India Pvt.Ltd Pune	Online GATE Training.	11/12/2014

6.1.4 What are the procedures adopted by the institution to monitor and evaluate Policies and plans of the institution for effective implementation and Improvement from time to time?

The procedures adopted by the institution to monitor and evaluate policies and plans of the institution are as follows:

- Plans are prepared as per the policies in advance.

- Various committees are formed and portfolios are assigned.

- The respective Heads of Department and the sectional heads monitor the Action plans and ensure that it is implemented.

- Through assessment and feedback mechanism the suitable modifications are Incorporated in the plan by the Principals office

Table 6.3: Department Advisory Board

Name	Affiliation	Designation
Department of Mechanical Engineering		
Prof. V.V.Potdar	Vice- Principal	Chairman
Prof. S.B.Gadwal	HOD	Member from Institute
Prof. S.R.Gavhane	Assistant Professor	Member from Institute
Prof. S.D.Bapat	Academician	Member from academia
Mr. Kashinath Sangumule	M.D,R.M.applied engineers, Mumbai	Member from Industry
Mr. Subhash Guruji	Century cooling system Solapur	Member from Industry
Mr. A.U.Sarade	Student	Student member UG
Mr. Upadhye Sudeep	Student	Student member PG
Prof. G.R.Deshpande	Assistant Professor	Member Secretary
Department of Electronics and Telecommunication Engineering		
Prof. S.R.Sakhare	Associate Professor	Chairman
Prof. S.J.Ligade	Assistant Professor	Member from Institute
Prof. R.V.Darekar	Assistant Professor	Member from Institute
Miss. D.Upadhye	Student	Alumni Member
Prof. P.K.Dhage	Assistant Professor, MIT, Pune	Member from Academia
Mr. S.P.Akiwate	MD: AkiwatePCB Design, Pune	Member from Industry
Mr. S.S.Sathe	Manager, Sathe Industries, Solapur	Member from Industry
Prof. A.S.Jirage	Assistant Professor	Member Secretory
Department of Civil Engineering		
Prof. T.D.Maslekar	Assistant Professor	Chairman
Prof. P.S.Swami	Assistant Professor	Members from Institute
Prof. P.R.Hedgire	Assistant Professor	Members from Institute
Er. P. V. Joshi	Consulting Civil Engineer	Member from Industry
Er. G.N. Chitari	Envirosafe consultants,Chatigalli, Solapur.	Member from Industry
Prof. D.S.Yerudkar	Assistant Professor, MIT Academy of engg., Alandi, Pune.	Members from Academia

Prof. P.S.Bhopale	Professor SES,HOD (Civil Dept.)	Member from Industry
Mr. Shaikh Shabaaz	Lecturer at A.G.P.P.I.,Solapur.	Alumni Member
Mr. Kalmankar Srinath	Student	Student member UG
Ms. Shaikh Nayera	Student	Student member UG
Prof. S.M.Birajdar	Assistant Professor	Member Secretary
Department of Computer Engineering		
Prof. M.A.Khureshi	Associate Professor	Chairman
Prof. A.K.Kannur	Associate Professor	Member from Institute
Prof. A.S. Patil	Assistant Professor	Member from Institute
Dr. N. V. Dharwadkar	Professorand HOD CSE RIT, Islampur.	Member from Academia
Mr. Sandip Desai	Managing Director, NIIT Solapur division.	Member from Industry
Er. Bharath Kumar L.	Sr. Engineer, Tesco-Amazon, Bengaluru.	Member from Industry
Mr. Rohit Tuljapurkar	Student	Alumni Member
Prof. S.V.Kulkarni	Assistant Professor	Member Secretory

6.1.5 Give details of the academic leadership provided to the faculty by the top Management?

• The Top Management gives ample freedom and flexibility to the Principal to lead allthe academic activities of the Institute.

• Top management and principal meet regularly and take necessary steps to formulate strategic plans of the institution.

• Corrective actions were taken on feedback received from faculties and staff.

• Every faculty member is involved in administrative and other non-statutory committees.

• Mentorship is introduced in all the departments and it is effectively monitored by the Principal and the Vice-Principal.

• Faculties are encouraged to attend faculty development programs (FDP) andshort term program **6.1.6. How does the Institute groom leadership at various levels?**

Senior faculty members are assigned the following Duties to help Director/Principal in day to day functioning and maintaining the Standards of education and training to students:

• Controller of Examinations (Institute)- Examinations-Internal and External

• H.O.D.s - Department level

• Administrative Officer- To help Director/Principal in administrative Matters

- Training and Placement officer - Training and Placements of students, correspondence and indentifying the companies for better placement of Students.

- Purchase Officer - Procurement of Equipment, Furniture as per Institute Rules.

- Maintenance Staff - to look after the maintenance of all services.

- Grievance Redressal Committee - To take the cases of grievances.

- Women Protection Cell- To take action in cases of harassment of Women.

- Anti Ragging Committee - To prevent on and off the campus

- Entrepreneur Development Cell - To establish interaction with industries.

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?

Adequate systematized autonomy to all the departments and sections.

- Academic and financial authority is delegated to principal, vice-principal and H.O.D. as per policy manual approved by B.O.G.

- Class Review Committees and students associations with Representatives from meritorious, average, below average levels and female students.

- Refining and redefining activities by keeping in view of the Deliberations of Class Review Committee and associations.

- Organization of several activities by student to enhance the Capabilities of students under the guidance of faculty Member.

- Empowering head of the department to distribute work load to faculty, to identify the add on courses to deliver, to identify the content beyond syllabus and to organize various faculty and student empowerment programmer with the help of members of class monitoring committee, teaching and nonteaching Staff of the department.

- Allocation of budget to various laboratories as approved by Board of Governance.

- Department Advisory Committees to decide about the purchase of Equipment to laboratories, and conduct of FDPs, STTPs, Seminars, Workshops etc.,

- Empowering the faculty member in-charge of laboratories to devise and implement the necessary plans for effective conduct of the laboratories and evaluation.

6.1.8 Does the college promote a culture of participative management? If, yes, indicate the levels of participative management.

Faculties gives their feedback in the departmental committees are well appreciated and received by the heads of the department and in turn the suggestions of Heads of the departments are perceived well by the B.O.G. And after detail discussions with Principal, and other officers of the Institute these issues are referred to B.O.G. for implementation. Management of The Institute always recognizes the significance of listening and interpreting the Views of all the employees and hence practices this culture meticulously.

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?

Yes, the Institute has a formally stated quality policy.

• It is developed in consultation with management, Principal and staff and is approved by B.O.G.

• The policy is clearly stated and made known to all the stakeholders through notices, print media and electronic media.

• The faculty and Heads are made aware regarding the quality policy and efforts are taken for its implementation.

• At the end of each semester, a review is taken to assess the level of attainment of quality policy.

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 development which is prepared and approved by B.O.G.

Following aspects are considered while making the perspective plan
• Start of new courses.
• Increase in intake.
• Development of infrastructural facilities
• Development of new laboratories
• Updating existing laboratories
• Annual budget for faculty and student development
• Identification of various funding schemes and submission of proposals
• Library up gradation.

- Internet up gradation.

- Power generation.

6.2.3 Describe the internal organizational structure and decision making Processes:

Organization structure of **A. G. Patil Institutes and Technology** is as follows:
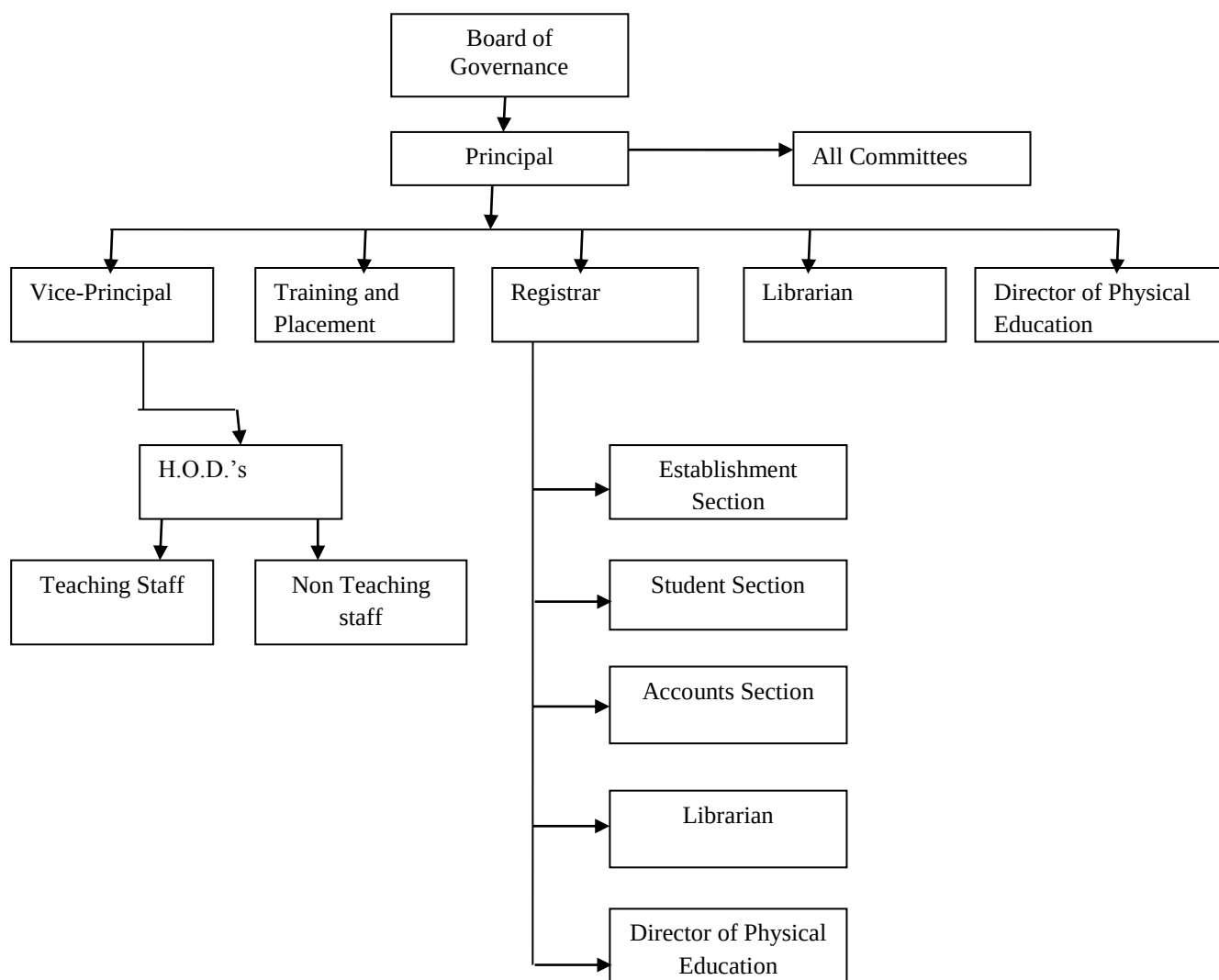
Figure 6.1 Organization structure

- Meetings of various bodies are held in order to take decisions

- Keeping in view the quality policies, decisions are taken in the appropriate meetings in the interest of stakeholders.

- Decisions are taken considering the overall development of the Institute.

Table 6.4: List Of Governing Body Members

Sr.No	Member	Name and Address
1	President : To be nominated by the Registered Society/Trust	Shri. Annarao Gurulingappa Patil 1, New Santosh Nagar, Solapur – 413 004.
2	Vice - President : To be nominated by the Registered Society/Trust	Shri. Santosh Annarao Patil 1, New Santosh Nagar, Solapur – 413 004.
3	Secretary : To be nominated by the Registered Society/Trust	Shri. Siddeshwar Annarao Patil 1, New Santosh Nagar, Solapur – 413 004.
4	Member : To be nominated by the Registered Society/Trust	Sou. Shanta Annarao Patil 1, New Santosh Nagar, Solapur – 413 004.
5	Member : To be nominated by the Registered Society/Trust	Sou. Megha Siddeshwar Patil 1, New Santosh Nagar, Solapur – 413 004.
6	Member : (Ex-officio) Regional Officer, Nominee of the AICTE.	Letter sent to AICTE for Nominee.
7	Member : (Ex-officio) An Industrialist from the region to be nominated by the State Government.	Mr. Ravindra R Adage, Director Global Infinite Green Power A – 199, MIDC Chincholi Solapur.
8	Member : Nominee of the Affiliating Body/University/State Board of Technical Education.	Prof. R.R.Patil School of Earth Sciences, Solapur University, Solapur.
9	Member : (Ex-officio) Nominee of the State Government – Director of Technical Education.	Dy. Director, Director of Technical Education Regional Office Pune.
10	Member : (Ex-officio) An Educationalist from the region to be nominated by the State Government.	Dr. Jayant C Burse 560/50, "Om Sai Prasad" South Sadar Bazar, Solapur Hsg Society Vijapur road., Solapur - 413003
11	Member : (Secretary) Principal of the Institute (as nominee of the Society/Trust)	Dr. Sunil A Patil Principal, A.G.Patil Institute of Technology, Solapur

6.2.4 Give a broad description of the quality improvement strategies of the
- **Institution for each of the following**
- **Teaching and Learning**
- **Research and Development**
- **Community engagement**
- **Human resource management**
- **Industry interaction**

Broad description of the quality improvement strategies of the institution   is as follows

Teaching and Learning

- To provide modern teaching tools to the faculty to facilitate effective learning.

- To provide training to staff for skill development

- To provide best possible learning atmosphere to the students in the form of E tools.

- To facilitate students with training/workshops on tools used in industry in addition to curriculum
  PBL, ICT Continuous Assessment, and feedback from stakeholders.

Research and Development

- Faculties are allowed for special leave to attend the seminars, research activities etc.

- Faculty members are motivated for pursuing Ph.D. faculty members recently passed the PhD entrance Test and are in the process of getting registered for Ph.D.

- Institute provides financial support for research work/publications and also provides laboratory facility.

- Faculties and students are motivated for writing research papers.

- Faculties are motivated for writing the proposals for research grant.

Table 6.5: List of faculty members pursuing PhD

Sr.No	Name of Faculty	Department	Ph.D. pursuing /Registered	University
1	Prof. V. V. Potdar	Mechanical Engg.	Pursuing	JNTU, Hyderabad
2	Prof. A.K. Kannur	Computer Engg.	Pursuing	VTU, Belgaum
3	Prof. S.R. Sakhare	E and TC Engg.	Pursuing	VTU, Belgaum
4	Prof. S. B. Gadwal	Mechanical Engg.	Pursuing	VTU, Belgaum
5	Prof. R.V. Darekar	E and TC Engg.	Pursuing	SPPU, Pune
6	Prof. G. R. Deshpande	Mechanical Engg.	Pursuing	VTU, Belgaum

Community Engagement

- Different types of Community engagement programs are being conducted like Blood donation, Health camp, Dental Check up for students and staff, tree Plantation etc.

- Apart from this, computer literacy programs for less privileged schools are Planned, NSS street plays empowerment of women, donation to orphanages

Human Resource Management

- Adequate number of qualified teaching and supporting staff are appointed through open advertisement followed by demo and interview by the Expert Committee.
- To retain good staff, strategies such as special pay, awards, sponsorship for various development programs, special leave for study is provided.
- The Institute organizes invited expert lectures on human resource management for faculties.
- The Institute organizes staff development programs for skill up-gradation and trainingof the staff.

Industry Interaction

Faculty and students are given ample scope for study tour and industrial visit for exposure through close interactionas follows:

- Institute invites eminent experts from industries as resource person for seminars and
- Workshop organized by Institute.
- Institute organizes guest lecturers from industry.
- Institute encourages faculty to attend industrial training.
- Institute organizes study visits to industry every semester.
- Testing facilities are provided to industry.
- Institute encourages the students to take industry sponsored projects.

Table 6.6: Information of faculty Visit to industries

Sr. No.	Name of Industry	Date	Class	No. of Student	Remark
1	Almatti Dam	06/08/2015	B.E.	60	Power Plant
2	PISE Industries Solapur	12/03/2015	S.E.	60	Foundary
3	DudhPandhari Solapur	05/08/2015	B.E.	70	HMT
4	KirloskarBrothers Ltd.Kolhapur	03/03/2015	S.E.	70	MP
5	Precision Camshaft Ltd.	06/08/2015	B.E.	70	MTP
6	HutatmaSmiriti Mandir	04/08/2015	B.E.	70	RAC
7	Vijay Engg. Solapur	04/08/2015	B.E.	70	MTP
8	Ultratech Cement , Solapur	16/10/2014	T.E.	50	MHS
9	PISE Industries Solapur	04/08/2015	B.E.	60	FOUNDARY
10	Ultratech Cement , Solapur	08/08/2015	S.E.	25	MHS
11	Ultratech Cement , Solapur	08/08/2015	B.E.	25	MHS
12	Dudh Pandhari Solapur	28/07/2016	B.E.	60	RAC

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 Principal collects the feedback from all HODs at the time of HOD Meeting. HOD meetings are organized once in two weeks. The faculty collects the feedback and problems of studentsduring mentoring meetings scheduled every week. They report these to HODs. HODs convey this information to the Principal. In the meeting of the Principal with the BOG members, this information is discussed. Based on these discussions, activities are revised.

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 staff is involved in planning and implementation of all Institutional processes. Some elements of the processes need to be worked upon time to time, to ensure continuous improvement in the effectiveness and efficiency of the processes. To encourage the staff for this:-

- Management appreciates, rewards the staff for their achievements in academic and research activities.
- Management sponsors staff for STTPs, conferences, workshop and orientation programs.
- Providing special leaves for higher studies and attending courses.
- Management involves the staff members in various activities and decision making process related to the curricular, extra-curricular and administrative development of the Institute.
- The staff members are involved in various committees such as Grievance Re-dressal Committee, anti-ragging Committee, cultural Committee, Sports Committee, etc. The suggestionsof these committees are taken in to consideration for major policy changes and decisions.
- The Institute provides platform for interaction with eminent personalities from renowned colleges and industries.
- Apart from regular official meetings, the B.O.G. holds informal gatherings where it gets an opportunity to hear from faculty members.
- Ideas from employees are encouraged, appreciated and implemented after discussions.

6.2.7 Enumerate the resolutions made by the Management Council in the last year and the status of implementation of such resolutions.

The resolutions made by the B.O.G. in the last year and the status of implementation of such resolutions are:

- The balance sheet of A. G. Patil Institute of Technology, Solapur for the year 2014-15, 2015-16 and 2016-17was considered and approved.

- The budget of A. G. Patil Institute of Technology, Solapur, for every academic year is considered and approved.

- The status of students' placement for the year 2014-15, 2015-16was reviewed.

- The status of faculty recruitment for the academic year 2014-15 and 2015-16, and 2016-17 was reviewed

- The admission status of first year 2014-15, 2015-16 and 2016-17 was reviewed. Proper steps were suggested to uplift the admissions.

Status of the implementation of these resolutions:

- By reviewing the balance sheet, a proposal is sent to the Shikshan Shulk Samiti for increase in the tuition fees.

- Budget allotments are done as per the approval.

- To improve the students' placement, the training and placement officer has arranged campus recruitment training program for SE, TE, BE students of all departments.

- Due to increase in the intake of students, additional faculty was recruited.

- To improve the number of 1st year admissions, awareness programs and counseling sessions on sisterInstitute and many junior science colleges from Solapur district were conducted.

- Started the PG Program in the Department of Mechanical Engineering.

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?

Yes, the institution is affiliated to Solapur University. This institution is established in 2008.Presently, the institution has received permanent affiliation for all courses from Solapur University Solapur. Institute is preparing for reaccreditation of NAAC, NBA for all courses andis in the applied for status.The Institute has applied for affiliation Dr. Babasaheb Ambedkar Technological University from 2017-2018.

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?

Institution ensures that grievances / complaints are promptly attended to and resolved by employing the following methods:

- Suggestion box for students as well as staff has been provided so that suggestions and complaints can be anonymously given as per policy manual.
- Student's grievance committee cell is established.
- Head of the institution personally looks into the grievances and suggestions and calls the concerned persons to discuss the matter with them.
- Improvements are then made to overcome the deficiency.
- Anti-ragging complaint register and Student Council complaints register is maintained in the office, and action is taken as per policy manual.
- Also, there is a grievance redressal cell which looks into the matters and finds solution for grievances when case are forwarded to them by the Principal.
- Students were allowed to borrow two books but after a demand from students,Institute allowed them to borrow four books from library as a special case for topper.
- There was a complaint from the hostel inmates regarding food quality served in the mess accordingly; a Student Monitoring Committee was setup to decide the menu and to monitor the food quality in presence of the Mess Contractor.
- There was a complaint regarding regular cleaning and maintenance of girl's common room. It was immediately sorted out by instructing the housekeeping in-charge.
- The mechanism to fulfill the aspirations of the stakeholders is by conducting meetings and by discussion.

6.2.10. During the last four years, had there been any instances of court cases? Provide details on the issues and decisions of the courts on these?

No, there has been no court case filed by and against the Institute.

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 Institute has the mechanism for analyzing student feedback. It is as follows:

Feedback is taken from students in each semester which is evaluated asper policy manual, and made known to the faculty through Head of the Departments. Corrective measures are suggested to individuals.

- Feed back is taken from alumni and students and evaluation is done by a special committee and accordingly it is conveyed to the concerned by Principal through Heads of the department. Some of the improvements made as a result of the feedback are

- Students are allowed to get additional library books.

- Additional bus routes were introduced to cover larger number of students.

- Gymnasium facility available in college campus.

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 efforts made by the institution to enhance the professional development of its teaching and non teaching staff are as follows:

- Training programs on skill development in technical subjects

- Training programs on soft skills development

- Conducted drive to become members of ISTE and IEI.

- Sponsorship for higher studies.

- Leave for higher studies.

- Lectures by eminent technocrats and interaction with them.

- Visits to industries, other universities of eminence.

- Institute conductstraining programs specially designed for non teaching staff.

- Computer training and communication skill training to non teaching staff is given.

- Sponsorship for attending workshops, conferences and seminars in other organizations

Professional development for teaching and non teaching staff as follows:

Table 6.7: Professional development for teaching and non teaching staff

Sr. No.	Year	Title	Resource person	Audience
1.	Academic Year (2011-2012)	Workshop on "PRO – E and Unigraphics"	Amit Tiwari, Ambitech technologies Pune	Students
2.		Workshop on "PCB Designing"	Mr. Subhash Akiwate, PCB Solutions	Students
3.	Academic Year (2012-	Workshop on "PCB Designing"	Mr. Subhash Akiwate, PCB Solutions	Students

4.	2013)	Workshop on "Research approach in Graph Theory"	Dr. M.H.Muddebihal, Gulbarga University. Dr. M.S. Biradar, Govt. College, Basawakalyan.	Open to all
5.		Workshop on "Introduction to AUTOCAD"	Mr.J.S.Mujawar Mr.R.M. Patil, AGPIT.	Students
6.	Academic Year (2013-2014)	Online course on Scilab	FOSEE (Online)	Students
7.		Workshop on "Electronic Circuit Design and Simulation"	Mr. Ligade S.J., AGPIT.	Students
8.		Online course on OSCAD	FOSEE (Online)	Students
9.		Robotryst 2015 National Level workshop	Robosapiens, Delhi	Students
10.		Faculty Development program on "Neuro-Linguistic programming (NLP)"	Mr. Bharat Chougule, Director King college of Technolgy, Nemakkal, T.N.	Staff
11.		Workshop on "Automobile Mechanics and IC Engine Design"	EI Systems, Bangalore	Students
12.	Academic Year (2014-2015)	Workshop on "Basics of Surface Modeling Using CATIA V5"	Miss S.R. Shaikh and Miss. P.S. Karande, A.G.P.I.T., Solapur	Students
13.		Course on CATIA	Mr. Sumit Karde, Consultant, Pune	Students
14.		Workshop on "Electronic Circuit Design and Simulation	Mr. Ligade S.J., A.G.P.I.T., Solapur	Students
15.		Workshop on "PCB Designing Workshop"	Mr. Subhash Akiwate, PCB Solutions	Students
16.		National Conference on "Innovative trends in Engineering and Technology"	Prof. Mrs Deshpande S.R.Principal G.P. Solapur,Dr. R.S. Mente, Solapur University, Solapur	Open to all
17.	Academic Year (2015-2016)	Faculty Development program on "PLC and Robotics"	Dr. Y.S. Rao, Prof. Anand Mane, Sardar Patel Institute of Technology, Mumbai	Faculty A.G.P.I.T
18.		Workshop on "Teaching methodology for Plastic Engineering."	Dr. A.A. Utpat, Fabtech, Sangola and Er. Mr. S.A. Jeurkar, Sai Enterprices, Solapur	Faculty Solapur University

19.		workshop on "Surface Modeling Using CATIA V5"	Mr.J.S.Mujawar Miss. P.S.Karande, A.G.P.I.T., Solapur	Students
20.		Workshop on "Skill Development training"	Lokmat, Solapur	Students
21.		Workshop on "Various open source software [FOSS]"	Mr. Amey Doshi, A.G.P.I.T., Solapur	Staff and Students
22.		Workshop on "Basics of CATIA V5"	Mr.J.S.Mujawar, Ms. Karande P.S. A.G.P.I.T., Solapur	Students
23.		Workshop on "Entrepreneurship Development Program"	Mr. Nitin Kale, NYDC, Pune	Students
24.		Workshop on STAAD-Pro software	Prof. Birajdar.S.M, A.G.P.I.T., Solapur	Students
25.	Academic Year (2016-2017)	Workshop on "Advance Welding Technologies"	Mr. Vineet Marathe, Vinarc Engineers/ Marathe Welding Cell, Pune and Dr. D.G. Thakur, Defence Institute of Advanced Technology, Pune	Students
26.		Workshop on "Scope of Mechanical Engineers in Software Industries"	Mr. Mahesh Talange, TCS, Bangalore	Students
27.		Workshop on "Advanced Programming using Matlab for Signal Processing"	Mr. Darekar R.V., A.G.P.I.T., Solapur	Students
28.		Workshop on AUTOCAD software	Prof. Birajdar S.M. and Prof. Bhogade V.M., A.G.P.I.T., Solapur	Students
29.		Workshop on "Advanced Programming using Matlab"	Dr. A.A. Mirje, PVPIT, Budgaon and Mrs. A.A. Mirje, WCE, Sangli	Staff and Students

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?

The strategies adopted by the institution for faculty empowerment through training, retraining and motivating the employees for the roles and responsibility are as follows:

- Motivational lectures and programs are arranged.

- Needs of individual staff are found out and training is provided as per the need.

- Induction training is provided to all new faculties to prepare them for their responsibilities.

- Faculties are encouraged to participate in the workshop /conferences of their interest to improve the understanding

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.

The performance appraisal system of the staff to evaluate their performance is:

- Standard self performance appraisal isadopted as per UGC and university format, and is filled by individuals and submitted annually to the Principal through the Head of Department andVice-Principal with a due remark.

- While designing the self performance appraisal form, care is taken to include the academic and extracurricular duties performed by the faculty members.

Due weight age is given to all the activities

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?

Management reviews performance appraisal of each staff and remarks based on principal and vice-principal reflects in the annual increment and promotion of the faculty as per policy manual. They are communicated through annual increment order and promotion orders.

- The outcome of appraisal decides the policy for regularization of the appointment.

- Probation completion or extension is decided on the basis of performance appraisal.

6.3.5 What are the welfare schemes available for teaching and non teaching staff? What percentage of staff have availed the benefit of such schemes in the last four years?

- Faculty is deputed for full time Ph.D. program by paying full salary. (Since 2009)

- Institute provides medical facility for accident affected staff/faculty immediately.

- Reimbursement of GATE registration fees for GATE qualified students.

- Permanent Female teaching and non-teaching staffs are sanctioned 3 months maternity leave on full pay twice in their career.

- Foreign travel expenditure is given for attending the conferences Reimbursement of PAT Exam fees to teaching faculty.

- Casual Leaves are allotted as per policy manual.

- Study Leave for pursuing PhDin terms of DL is granted.

- Paper publications and participation in National /International Journals and Conferences.

- Faculty are provided TA and DA for presenting technical papers at National/International Conferences subject

6.3.6 What are the measures taken by the Institution for attracting and retaining eminent faculty?

Initiative by the management is taken to retain eminent faculties

- 6th Pay: The entire teaching faculties who are ratified are eligible for 6th pay scales.
- Incentive for acquiring Ph.D. degree during service: Two incrementswill be given to those who are awarded Ph.D. degree during the service in this Institution as per the HR policy.
- Other Incentives: Carrier Advancement Scheme is implemented.
- Registration fee along with TA and DA is provided to the faculty for attending National and International Conferences / Workshops / FDP's.
- Promotions in teaching positions will be given as per the UGC/AICTE norms

6.4: Financial Management and Resource Mobilization:

6.4.1. What is the institutional mechanism to monitor effective and efficient use of available financial resources?

The institution maintains a mechanism to monitor effective and efficient use of the available financial resources in following manner:

- Institution has well defined mechanism to monitor effective and efficient use of available resources. Institute obtains proposals from concerned departments in which all the teaching members of the department involve. Institute receives the needed infrastructural and facilities required by the departments. After assessing the projected income for an academic year and after the approval of B.O.G, the Institute allocates budget to each department and institution with minute details for both recurring, and Non-Recurring.

- Purchases will be made with the recommendations of duly constituted Purchase committee and with the approval of Secretary and correspondent. The amounts withdrawn from the banks will follow a systematic mechanism of obtaining the signatures of Institute account in the name of principal. In this process the expenditure made will be identified for budgeted expenditure, out of budget expenditure. In case of out of budget expenditure, ratification will be done by the Secretary and Correspondent.

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.

The institutional mechanisms for internal and external audit are established as:

Every year, internal audit is conducted by the audit section of the Institute headed by account officer. After thorough verification, audit section submits their appraisals to the principal for follow up action. Institute accounts will be audited by the qualified chartered accountants.

6.4.3 What are 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 status of Institute is "Self Financed", non-aided private engineering college. Themajor source of finance is fees from the students. The Fee (Tuition Fee and DevelopmentFee) is decided by Shikshan Shulka Samiti, Govt. of Maharashtra. Other fees arecollected as per directives of affiliating university. Also, the entire infrastructure isprovided by management.

6.4.4 Give details on the efforts made by the institution in securing additional Funding and the utilization of the same (if any).

Nil.

6.5: Internal Quality Assurance System (IQAS):

6.5.1 Internal quality assurance Cell (IQAC):

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 Institute has established recently on 22-08-2015 the Internal Quality Assurance Cell (IQAC) with the following composition.

Table 6.8:Internal Quality Assurance Cell

Internal Quality Assurance Cell	
Chairperson :	Dr. S.A. Patil
Administrative Officers :	Mr. G.N. Kulkarni , Mr. A.M. Savalgi
Teaching Staff :	Prof. V. V. PotdarProf. M.A. Khureshi Prof. T.D. Maslekar Prof. S.B. Gadwal Prof. R. B. Kulkarni Prof. G. R. Deshpande Prof. S.J. LigadeProf. A.K. Kannur
Management :	Shri S.A. Patil
Students and Alumni:	Ms. Afreen Shaikh Mr.Abdul Husain Rangwala Mr. SuhasAdmane Mr. Ganesh Bhosale
Industrialist :	Mr. Kashinath Ghogare, Mr. Chetan Shah
Director :	Prof. R. V. Darekar

The policy of the institution with regard to quality assurance is:

- Fixing quality parameters for various academic and administrative Activities.

- Monitoring the organization of class work and related academic Activities.

- Conducting Internal Quality Audits periodically to verify the Effectiveness of measures taken in reaching the quality parameters.

- Documenting various programs / academic activities leading to Quality improvement and reviewing their effectiveness in quality Improvement/ sustenance.

b) How many decisions of the IQAC have been approved by the Management/authorities for implementation and how many of them were actually implemented?

Following is the list of important decisions taken by IQAC:

All decisions taken by the IQAC are generally approved by the management, Few modifications may be suggested by them are:

- Infrastructure development - Director Room, Conference room   in main building.

- Expansion of Gymkhana.

- Introduction of mentoring system.
- Introduce MOODLE system for improving monitoring of teaching learning processes.
- Provide Wi-Fi facility in the campus.
- Installation of 3- Phase supply
- Installation of UV-RO plant.
- Start Campus Drive for enhancing industry Institute interaction.
- Increase in Internet Bandwidth using 100Mbps lease line

Status of implementation of IQAC decisions:

- Director room, Conference room in main building have been developed
- Gymkhana facility is available.
- Started mentoring system
- MOODLE system for improving teaching learning processes is implemented.
- Wi-Fi facility in the campus.
- Installation of 3- Phase supply
- UV RO water plant installed in campus.
- Started Campus Drive for enhancing industry Institute interaction.
- Internet Bandwidth using 100Mbps of Reliance has been installed

c) Does the IQAC have external members on its committee? If so, mention any significant contribution made by them.

Yes,IQAC has two members from industry on its committee.

d) How do students and alumni contribute to the effective functioning of the IQAC?

For the effective functioning of IQAC, the students and alumni contribute as follows.

Responses and opinions of the students on various processes, systems and infrastructure are collected in the following formats.

- Entry level survey
- Library feedback
- Hostel feedback form
- Feedback about non teaching staff / technical staff
- Exit feedback

In addition to this, feedback from students through the suggestions is received in the suggestion boxes. Alumni visit the Institute during alumni meet and on other occasions. Alumni are invited as guests on occasions like conferences, students project evaluation, social events etc. At this time feedback is collected from the alumni.

e) How does the IQAC communicate and engage staff from different Constituents of the Institutes?

IQAC present its presentation before the Principal and the H.O.D's during H.O.D meetings. Faculty and staff members of the institution are communicated through heads of respective units.

6.5.2. Does the institution have an integrated framework for quality? Assurance of the academic and administrative activities? If yes, Give details enumerating its impact.

Yes, the Institution has an integrated framework for quality assurance of the academic and administrative activities. Policies for implementation of best practices in academics in order to assure the quality are framed and approved in advance.

Further it helps in simplifying the process of smooth conduction of various academic activities. Institute uses ICT in administration to speed up the approval processes and to assure the quality.
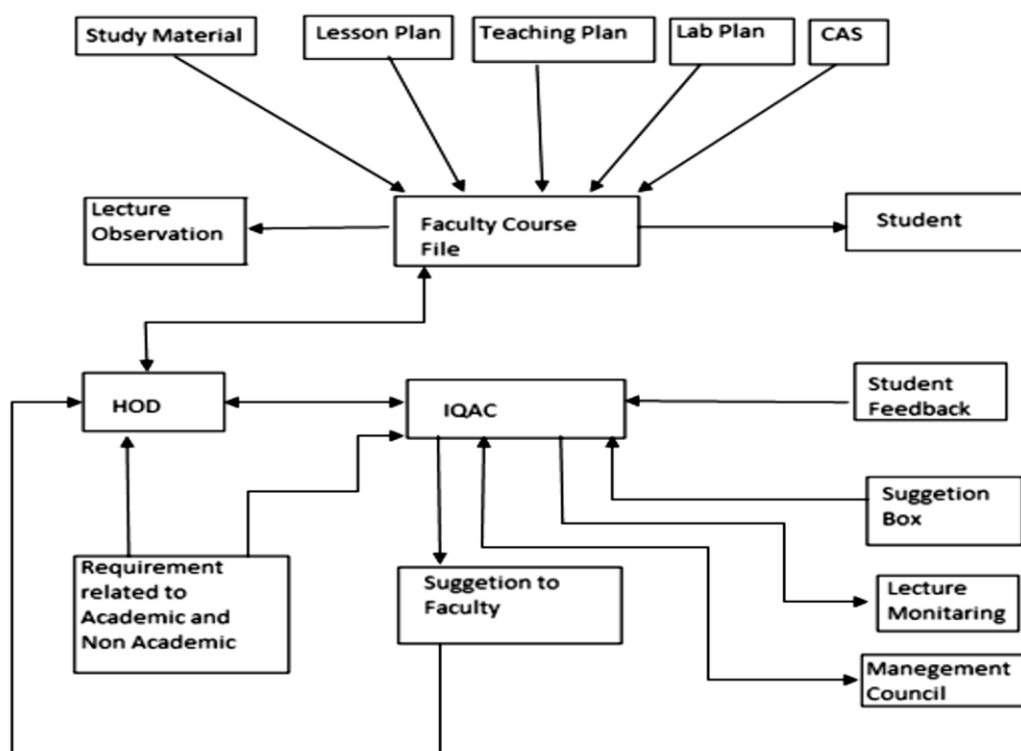
Figure 6.2 IQAC Structure

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 staff is trained through Institute level training programs/ workshops and through department leveltraining programs for effective implementation of the quality assurance procedures. The programs aim at –

- Upgrading the skills and knowledge of the staff.
- Training the staff about work associated with various quality assurance processes.

6.5.4. Does the institution undertake Academic Auditor other external Review of the academic provisions? If yes, how are the outcomes used to improve the institutional activities?

Yes, under the preview of department advisory committee.Academic audit is conducted on the following:

- Course files and lab manuals
- Monthly student's attendance
- Internal Exam Marks
- Semester Internal Marks
- Semester exam marks
- Faculty development programs me and their impact on teaching – learning process.
- Training programs to students.
- Co-curricular / extra-curricular activities.

Based on the report of internal academic audit, the courses of actions / Measures being followed are reviewed and suitable remedial measures will be taken.

6.5.5. How are the internal quality assurance mechanism aligned with the requirements of the relevant external assurance Agencies/regulatory authorities?

- Continuous assessment scheme is an internal mechanism to assign term work marks to students. Term work marks are then included in the final results by the university.
- The department heads submits the infrastructure, equipment requirements to principalas and when required.
- The dean academic receives the faculty requirements from the department heads andaccordingly faculty is recruited.
- Infrastructure and faculty status in the Institute is peer reviewed by the members ofuniversity local inspection committee (LIC). Suggestions of the LIC are implementedby the Institute.

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?

The Institute has mechanism to monitor teaching- learning process regularly. The structure of monitoring the teaching-learning process is as follows
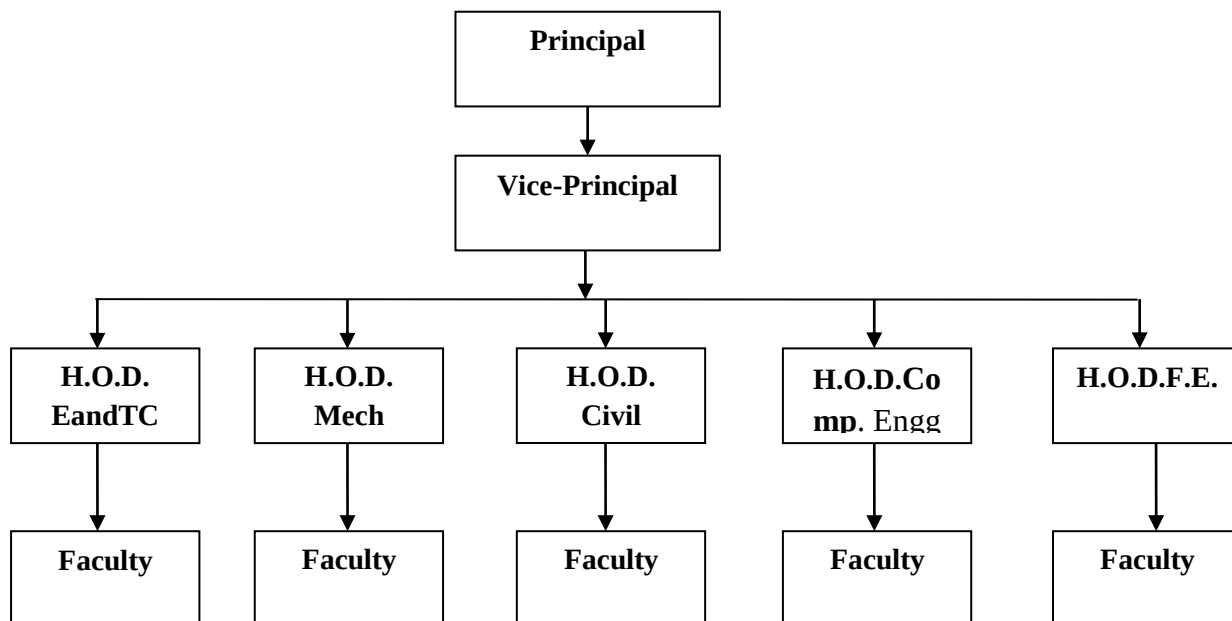
Figure 6.3 Teaching-learning process

The methodologies of the operations for monitoring the teaching learning process are as follows.

• Institute uses students' feedback to review the teaching learning process.

• In order to achieve the expected learning outcome amongst students following processes are conducted by Principal office through the office of Dean, Academics and Heads of the Department:

• The feedback from students of earlier session is used to prepare the teaching plan.

• Academic calendar and timetable are published before the commencement of the session.

• Teachers are required to prepare lesson plan and teaching plan.

• Lectures are conducted as per the lesson plan.

• Home assignments are given to students based on the respective subject.

• Internal assessments test are conducted regularly and progress of the test is conveyed to students

• Laboratory sessions are conducted and the assessment is carried out.

• Academic progress is reviewed in the monthly meetings with Heads of Department.

• The content beyond syllabus is assessed by individual department and guest lectures, field visits, industrial visits are organized accordingly.

• The feedback from students is taken to understand the effectiveness of teaching learning process.

The outcome of the process is:

• The regularity is maintained in the delivery of the curriculum

• Regular attendance of students is observed.

• Students are found taking interest in the laboratory work

• Students are found taking keen interest in subject understanding

• Students are inspired for developing innovative projects and they are encouraged to participate in National /International competitions.

6.5.7 How does the institution communicate its quality assurance policies? Mechanisms and outcomes to the various internal and external stake holders?Any other relevant information regarding Governance Leadership and Management which the Institute would like to include.

The institution communicates its quality assurance policies, mechanisms and outcomes tothe various internal and external stakeholders as follows:

Vision, Mission, Quality Assurance policies are displayed on the website of theinstitution,displayed on boards at prominent places incampus, are included in the information booklets and departmental newsletters.The achievements of the students, placement, and Institute newsletter are uploaded on Instituteweb site.Outstanding achievements of students are covered in local news papers.The meritorious students were rewarded at annual social dayfunction.

Quality Assurance mechanisms and outcomes are informed to all during studentsinduction program, students mentoring sessions, parents meetings, alumni meetingsPrincipal's address at seminars/ conferences/ interactive sessions with stakeholders.

CRITERIA VII:

INNOVATIONS AND BEST PRACTICES

CRITERIA VII: INNOVATIONS AND BEST PRACTICES

7.1 Environment Consciousness

The Institute is conscious of environmental issues. It tries to create environmental awareness amongst the stakeholders. The Institute authorities are very keen on making the campus eco-friendly by adopting certain measures. The Institute also adopts energy conservation practices, effective waste management at source and plantation for making the campus clean, green and healthy.

7.1.1 Does the Institute conduct a Green Audit of its campus and facilities?

Yes, Green audit of the Institute has been carried out. As per recommendation measures of green audit more tree plantation, use of solar energy has been introduced.

7.1.2 What are the initiatives taken by the college to make the campus eco-friendly?

• The basic philosophy of the Institute is oriented towards environmental sustenance and eco friendliness The Institute has given utmost importance to eco friendly environment in the campus and funds are allocated in the annual budget for proper maintenance and beautification of campus.

• The Institute has adopted various measures to maintain a green campusand helps in developing an eco-concern and environment consciousness.

• The lawns in Institute are equipped with water sprinklers

Energy conservation

•   The Institute is committed towards energy conservation.

•   Institute installed 50 kW solar grid tie power plant. It has total 167 solar panes. It generates electricity 50 kW per day and it is connected to national grid. This generated electricity fulfills need of whole campus and extra electricity is supplied to *Maharashtra State Electricity Distribution Co. Ltd*.which saves Rs.72000 to 80000 per month and produce extra funds.

•   Solar water heaters are used in both hostel premises to reduce electrical energy consumption.

•   Solar Lamps are fitted at Boy's hostel, Girl's hostel and main gate of the Institute to reduce electrical energy consumption.

•   Information stickers are displayed in all classrooms and all the washrooms near the switch boards so as to sensitize students about energy conservation.

•   All the computers in the Institute have LCD monitors instead of CRT monitors.

- Class rooms, laboratories, offices, seminar hall, board room, library, study room, cabins etc. are equipped with window curtains to reduce heat conduction and reduce the consumption of electricity.

- Ventilators have been installed in workshop and canteen which help to reduce temperature and provide ample amount of natural light.

Use of renewable energy

Instituteadapted concept of solar farming

- Institute installed 50 kW solar grid tie power plant. It has total 167 solar panes. It generates electricity of 50 kW / day which fulfils the electricity requirement for A.G. Patil Institute of Technology,A.G.Patil Polytechnic Institute andcampus.

- It is connected to national grid to provide extra generated electricity to Maharashtra State Generation Corporation. This power plant helps to generate funds.

- It helps in minimizing air pollution.

- It helps in carbon neutrality.

Fig. 7.1: Inauguration of Solar plant with 167 solar cellls

- Two number of solar water heater systems having 1000 litre per day capacity (consist of 8 collectors with 9 copper tubes per collector) are used to facilitate hostel students.

- Institute has a Biogas Plant in campus to reduce the bio wastes from canteen and garbage from trees in the campus.

- The Institute has implemented the rain water-harvesting, which has saved a significant amount of water expenses.

- Ventilators have been installed in workshop and canteen which help to reduce temperature and provide ample amount of natural light.

Efforts for carbon neutrality:

- The Institute is conscious about reducing its carbon footprint.

- Institute adapted concept of solar farming.Solar farms are the large-scale application of solar photovoltaic (PV) panels to generate green, clean electricity at scale, usually to feed into the grid. Institute has been installed such project of 50 kWp tie grid power plant on roof of the building. It acts as green source of electricity, reduces 1577.6 ton of carbon emission per year.

- Bio waste from trees and plants is converted into vermi compost instead of burning it by using the vermi culture pit. The compost produced is used as fertilizer for the plants on the campus thereby promoting reusability.

- Waste paper in the form of rejected documents are shredded and then sold for the purpose of recycling.

- To contribute in reducing the effects of global warming all windows in the Institute are made of eco-friendly material instead of wood.

The green lawns and plantation in and around the campus is also helpful in fixation of carbon content present in environment.

Plantation

- The Institute has successfully implemented a Tree Plantation Program through the NSS activity, which has resulted in a green and eco friendly campus.

- NSS coordinators and staff organize tree plantation program on different occasions e.g. Environmental day, Independence day.

- Institute has planted and is maintaining various flowering plants, ornamental trees to keep campus free from pollution.

- Plants watered by drip irrigation system for water conservation purpose.

Hazardous waste management

- In Institute, sufficient number of dustbinsare placed at various corners. Institute takes adequate steps for the disposal of waste within the campus itself by engaging supportive staff.

- Chemicals and Hazardous materials used for the purpose of training and practical sessions are purchased in limited quantities hence no managing/ disposing of outdated chemicals is required.

e-waste management

- The old unused irreparable electronic equipments are disposed as scrap.

7.2 Innovations and Best Practices

7.2.1 Give details of innovations introduced during the last four years which have created a positive impact on the functioning of the Institute.

The Institute has many innovative practices which have helped in improving the functioning of the Institute.

Solar Farming :-

Solar farms (sometimes known as solar parks or solar fields) are the large-scale application of solar photovoltaic (PV) panels to generate green, clean electricity at scale, usually to feed into the grid. As Solapur city is situated in south-eastern region of Maharshtra and apart from winter and rainy season the summer season is comparatively more extreme. So taking advantage of this specific extreme climatic condition we have installed solar power plant of 50 kW tie grid power plant on roof of the building which comprises of total 167 solar panels.

The Institute has economically benefitted in substantial manner by generating 72000 units annually and simultaneously contributing to the power generated by the Maharashtra state power (hydroelectric / thermal) projects.

Moreover this project is eco friendly and economically feasible in broad perspective.

Academic practices:

• Academic Monitoring is performed regularly which includes data submission regarding lectures and practicals conducted and student attendance.

• Remedial classes are conducted for students who scored less than 40% in University examinations.

• Online student feedback system for taking feedback of individual teachers, departments, administrative office, library and T and P cell.

• Book-bank scheme for all students.

• Mentors for every 20 students till they complete their graduation.

- Guest lectures by experienced people from leading industries and reputed institutions.

- **Administrative practices:**

- The Institute has a teacher oriented management through the Board of Life Members.

- Regular meetings for monitoring the curricular, co-curricular and extra-curricular activities.

- Director of physical education to take care of all the sports activities.

- The functioning of the administrative office has been automated by using softwares, mailing system and web portal.

- A well established Training and Placement Cell catering to the placement requirements of the students.

Innovative Projects:

Third year and final year students contribute in developing innovative mini and major projects every year.

- Robo having shuttle hit mechanism designed by TE, BE students of Mechanical engineering and Electronics and telecommunication engineering won prize in the competition held at IIT, Roorki

- Two projects are selected to state level 'AVISHKAR PROJECT COMPITITION 2016'

Table 7.1:List of Innovative Projects by students

Sr. No.	Title of the Project	Name of the student	Description	Year	Guide
1	Andro Netra – Project Third Eye	Sandesh Londhe Monika More Priyanka Yelmar Sujata Yewale	This project for people with visual disabilities such as blind people. In order to enable even the blind people to use the basic communication features offered by mobile devices a touch-sign based mobile software application Andro-Netra has been developed to help visually impaired persons to use for basic communication requirements such as phone switch-off, switch-on, preset phone no dialing, receiving and rejecting the calls.	2012-2013	Prof. A.S. Patil
2	AutoTyper (AVISHKAR PROJECT	YogirajLangote Vishal Saggam ShubhamDurgukar SantappaFulari	This project provides customized functions which helps user to do their business operations easily.	2016-2017	Prof. A.S. Patil

	COMPITITION 2016')		The advanced excel toolkit includes auto typer, customized online typing data, data extraction, expense manager, which reduces the expenditures of overall system and high efficiency is obtained.		
3	Digital Notice Board	AnandSunchu SanketBobe Ravi Gajdhani	This project makes the notice board paperless, this help in displaying notices digitally on different display devices placed at different locations in department using single CPU machine. This can also be used to video communication to the students.	2016-2017	Prof. A.K. Kannur
4	Fruit quality management	Meru Amruta, Batgeri smita, Surwase Suwarna, Dulange snehal	Testing the quality of Fruits to be exported	2012-13	Prof.S.R.Sakhare
5	Black box for automobiles	Deshmukh Avinash, Kawade Snehdeep, Yampure vishal, Nandile Nitin	Helps tracking causes of accident and also helpful to insuring company	2013-14	Prof.S.D.Pujari
6	Pick robot using Zigbee	Kashid Rahul, Bharadwaj rahul, Khatal Trupti, Rawal Prajakta	Pick and place based robot it also useful in critical conditions suchas fire or gas leakage where dangerous to humans	2013-14	Prof.A.S.Jirge
7	The smart vision local navigation and for blind and visully imparied persons	Pawar Anamika, Tambile Anuja, Sonawane Rekha	Itguides to blinds with avoidance of static and moving obstacles	2013-14	Prof.A.A.Kannur
8	Brain tumor detection using Image processing	Rakshe Chandrakant, Patil Urmila	Detects Brain Tumar and Helps Doctors while operating	2013-14	Prof.R.V.Darekar
9	Automatic insulin injection	Potabatti Akshay, Pantuwale Prakash, Takmoge Rutuja, Sutar	Alternative of multiple daily injections	2014-15	Prof.S.J.Ligade

		Sangita			
10	Electrical generation form roadwayes	Sanga Ambadas, Kyatari Basavraj, Sawalkar Suryakant	Electricity can be generated by movements of the tyres on the speed braker	2014-15	Prof.R.V.Darekar
11	Agricuture management using GSM	Joshi Pournima, Kamble Sagar, Yadav Sagar, Patil Mukesh	System of agricultural can be managed using this module	2014-15	Prof.S.R.Sakhare
12	GAS leakage detection and controling action robot using GSM	Pawar Shridul, Teli Jyoti, Pawar Priyanka	Detects leakage of the LPG using gas sensor and alerts the person via SMS	2015-16	Prof.R.V.Darekar
13	Electrical management in smart city using raspberry pi	Upadhye Divya, Shaikh Uzma, Wakade Kanchana	Issue caused due to under utilization of resources and also overcome the niglizitions of common workers (staff)	2015-16	Prof.S.D.Pujari
14	Estimating and Costing of Solar Power	Mr. Patil S.S. Mr. Agarwal V.H. Mr. Girnivaddar S.B. Mr. Kamble R.U. Mr. Kulkarni V.D. Mr. Rakale S..N. Mr. Dhanve A.A. Mr. Shaikh A.S.	Study of non renewable energy resources (solar power) and its application to AGPIT campus.	2015-16	Prof. P.R.Hedgire

Table 7.2: List of Innovative Projects by Faculty

Sr. No.	Name of faculty	Title of Research Project	Brief Description
1	Prof. V.V. Potdar	Design and Development of Aquatic Weed Removal Machine (AVISHKAR PROJECT COMPITITION 2016')	An **aquatic weed cutting machine** is an aquatic machine specifically designed for inland water course management to cut and harvest underwater weeds. The action of removing aquatic plant life in such a manner has been referred to as "aquatic Weed Removal". Existing machines are semi Automatic.
2.	Prof. V S Jakukore	Rose de-leafing Machine	Ramchandra Flowers Sponsored the work. The present work is a multi-purpose tool that can remove foliage from flowers, thorns on roses, and to snip stems. The dual retractable blades eliminate the need to pull foliage from the stem by hand, making it possible to stem both sides at once with one swift upward motion of the instrument. This enables quicker preparation and clean-up because

			you can stem and snip with one pull and the greens need not be cut apart first.
3.	Prof. S.K. Kusekar	Electrical Car	An **electric car** is an automobilethat is propelledby one or more electric motors, using electrical energy stored inter chargeable batteriesor another energy storage device. Electric motors give electric cars instant torque, creating strong and smooth acceleration. They are also around three times as efficient as cars with an internal combustion engine. Electric cars have several benefits over conventional internal combustion engine automobiles, including a significant reduction of local air pollution, especially in cities, as they do not emit harmful tailpipe pollutants such as particulates(soot),volatile organic compounds, hydrocarbons, carbon monoxide, ozone, lead, and various oxides of nitrogen.
4	Prof. S.D.Pujari	Optimization Of Standby power reduction control mechanism using blooth	The power wasted in standby mode is controlled and minimized. The mechanism is managed wirelessly
5	Prof. A.S.Jirage	Standby power monitoring and control system using Zigbee	The appliance when kept in standby mode, consume electricity . This waste of energy can be minimized to a extent. The overall system is managed using Zigbee
6	Prof.R.V. Darekar	Implementation of speech Recognition using MFCC for security purpose or for machine activation	Application of speech recognisation using reliable parameters like MFCC can be used for communication with machine. Analysis is done to improve the recognition accuracy by using triangular filter than gaussion filter
7	Prof. S.J.Ligade	Monitoring and Security vehicals using CAN BUS Protocol	To avoid cumbqsome wiring and security with monitoring easily done by CAN BUS protocol

7.3 Best Practices

Elaborate on any two best practices in the given format, which have contributed tothe achievement of the Institutional Objectives and/or contributed to the Qualityimprovement of the core activities of the college.

Best Practices No. 1

EDP: Entrepreneur Development Program

Chiarman of the Institute Honorable Shri A. G. Patil has embarked upon a mission to provide technical education to the neglected areas of Solapur district to bring up talent not only from urban

areas but also from rural areas and to develop them as employees as well as employers. This is considered as a key objective of the institution.

For accomplishment of this objective, the Institutehave an effective Entrepreneurship development unit through which maximum approach is given to the development of budding enginners and entrepreneurs. The unit work by arranging a number of guest lectures and workshops for development of entrepreneurship. The chairman, for his continuous efforts have honored by UDYOGRATAN AWARD by auspicious hands of his excellency, R. C. mahajan, Chancelleor, Maharashtra state.

1. The Goal:

• To create the awareness about entrepreneurial qualities.

• The main objective of this practice is to reduce the number of job seeker and creates more number of job creators. The Institute is promoting equal opportunities in higher education to students, to generate self employment.

• To educate and prepare students for technical and professional entrepreneurial excellence and to satisfy the need of the changing demand.

2. The context:

The practice relates to a social activity. It helps to creates future entrepreneurs. It has proved that this type of innovative practice gives practical exposure to students. We always welcome suggestions and co-operations from our stake holders to make the activity more and more effective.

3. The Practice and Evidence of the Success:

• It is a two days activity. On first day an entrepreneur is invited to guide the students about entrepreneurship. He / She guide about the Necessity, opportunities, Challenges, Financial availability and many more accepts related to entrepreneurship. This helps for handling the two day's project in effective way.

• The second day a group of four students (2 from junior and 2 from senior class) is provided with initial capital investment by the Institute. The student's works on their ideas about product selection, buying and selling (in which market).

• For two days students perform this activity, Meet the customers in the market and learn practical entrepreneurship. Due to pre guidance about risk taking and business decision, the success rate is increasing.

Table 7.3 List of Enterpreneurs

S.No.	Name of the Student/Alumni	Graduating year	Name of the company incubated
	Enterpreneurship		
1	Mohan Jadhav	2015-16	Mohan Online
2	Shaikh Amir	2015-16	Amir Constructions
3	Shaikh Faizan Md. Ibram	2015-16	Traders entrepreneur
4	Ram Chavan	2015-16	Publicity, Tent House supplying Company
5	Suhas Adamane	2014-15	Spenca Mineral Water
6	Rupnar Yogesh	2014-15	Ceramic Tiles Company agent
7	Shinde Raviraj	2014-15	Kirti Computers
8	Jidnyasa Agnihotri	2014-15	Fruit Business and General Stores
9	Bhuta Pratik Paresh	2014-15	Textile entrepreneur
10	Hatti Manoj	2014-15	Bharat Petroleum
11	Todkari Nilesh	2014-15	Organic Farming
12	Pawar Prinyaka Mahesh	2014-15	Software Training centre
13	Swapnil Bhosale	2014-15	Swapnil Tiles Industry
14	Parbat Karan Vijay	2013-14	Parbat Consultancy
15	Swapnil Pawar	2013-14	Swapnil Developers
16	Admane Suhas	2013-14	Spenca Mineral Waters
17	Shaikha Amir	2013-14	Amir Constructions

4. Problems Encountered and Resources Required:

The problems faced by Institute during AGEDP were:

1. Lack of communication and confidence in students.

• Due to the lack of communication skills and confidence students cannot convenience customers properly and generate stress.

• Be unscheduled approach to the professionals create problem of Appointment.

2. Resources Required:

All the resources are provided by the Institute for the purpose of AGEDP Activity.

> ## Best Practices No. 2

Stepping towards Renewable Sources of Energy

I. Goal:

Institute aims at increasing the dependence on renewable source of energy such as solar system, water harvesting mechanism, production of organic fertilizers etc. in order to cope up with the nature conservation than that of non-renewable sources. It maintains an independent sustainable energy source and creates the awareness for understanding the need of green energy and is implementing ideas parallel to the future requirements. Institute practices this to create awareness among faculties and students.

II. Content:

The geographical location of Nation and to be precise of the Solapur city is such that it receives maximum solar radiation throughout the year. It is a favorable location for solar energy development. Institute has placed an effort to represent the idea by installation of solar power and continues to inspire the concept of go green.

This practice of rain water harvesting initiated is a social need in the today's era. Scarcity of water is a big challenge found in all the fields of development. For the same, it is planned with students and faculties to be aware to harvest water at their place. Similar to this, encouraging organic living will prove to be success key for nation.

III. The practice and evidence of success.

1. Institute has installed 167 panels which generate 50KW of electricity and it is supplied to Maha vitaran, Maharashtra electricity board. Thus, Institute attempts to fulfill a responsibility of technological institutions at least on partial basis.
2. Different activities such as camps, guest lectures on Water bank, related to harvesting are conducted. Opportunities are created for students and faculties for social cause.
3. Students contributed in different ways such as calculating terrace area, runoff volume and in design of the pipe system. In the campus, each building is planned for water harvesting and runoff water is collected at one source.
4. With the help of students and faculties, Institute has started the above practice on trial and error basis. Department of Civil engineering have procured 25 species of earthworms which are proved to be efficient in fertilizing soil.

IV. Problems encountered
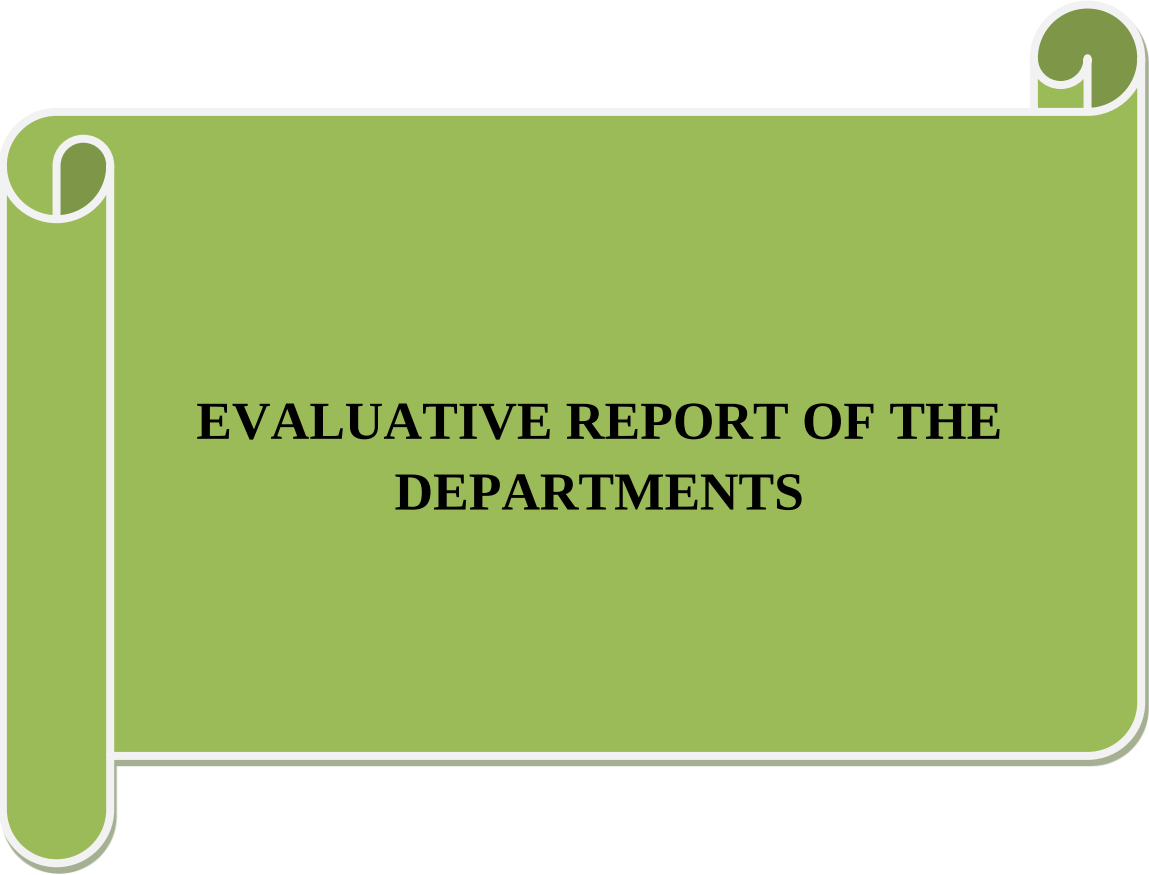
Particulate matter have created nuisance since they settle on solar panels and create hindrance in power generation.

- Additional resources required.
- Continuous maintenance of resources is needed.

Miscellaneous Best Practices:-

Along with the above chief best practices, some of the best practices with practical outcome can be briefly introduced as belows-

1. Awareness camps for spreading the technology in society-
   Students of the Institute are motivated with their social responsibilities through which Institute have reached approximately all the regions of society for spreading of technology.
   Students of NSS have reached a number of villages and have successfully conducted programs in regards with technology and computer literacy etc.
   Students had organized an Awareness camp for 'Digital India' for the society recently.
2. Service to the society:-
   Staff and students of the Institute are in continuous touch with the needy peoples like orphanage children, peoples below poverty lines. Visits to such organization and peoples are made continuously.
   Some of the staff and students visit every Sunday to 'Pakhar Sankul organization' to teach subjects like Maths, English and Science.

EVALUATIVE REPORT OF THE DEPARTMENTS

Evaluative Report of the Department

1. Name of the department   : Civil Engineering
2. Year of establishment   : 2010
3. Names of Programmes/Courses offered
(UG, PG, M.Phil., Ph.D., and Integrated
Masters integrated Ph.D., etc.)   :U.G. - B.E. Civil Engineering
4. Names of interdisciplinary courses and the departments / units involved in it:

Sr.No.	Class	Interdisciplinary course	Departments Involved
1	F.E.-I	Engineering Mathematics I	General Science and Engineering
2	F.E.-II	Engineering Mathematics II	General Science and Engineering
3	S.E.-I	Engineering Mathematics III	General Science and Engineering
2	S.E.-II	Analysis of Machine Elements	Department of Mechanical Engineering
3	S.E.-II	Fluid Mechanics	Department of Mechanical Engineering

5. Annual/ Semester/ Choice based Credit System (Programme wise):
   U.G. - Semester Pattern
6. Participation of the department in the courses offered by the other departments:

Sr. No.	Class	Interdisciplinary Courses	Departments Involved
1	F.E. - I	Basic Civil Engineering	Electronics and Telecommunication, Mechanical, Computer Engg.
2	F.E. - II	Applied Mechanics	FE(Electronics and Telecommunication, Mechanical, Computer Engg)
3	S.E. - I	Fluid Mechanics	Mechanical Engineering
4	S.E.- II	Analysis of Machine Elements	Mechanical Engineering

7. Courses in Collaboration with other universities, industries, foreign institutions etc. – Nil

8. Details of courses / programmes discontinued (if any) with reasons – Nil

9. No. of teaching posts:

Sr. No.	Post	Sanctioned	Filled
1	Professors	01	-
2	Associate Professors	02	01
3	Asst. Professors	06	11

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D./M.Phil. etc.): UG:

Sr. No	Names of Faculty	Qualification	Designation	Specialization	Exp. in yrs	Ph.D./P.G. guided
1	Prof. T. D.Maslekar	M.E. CivilEngg. (Struct)	H.O.D, Assistant Professor	Structures	7 Yrs.	
2	Prof. P.R. Hedgire	M.E. CivilEngg.(BSan dT)	Assistant Professor	Building Science and Technology	20 Yrs.	
3	Prof. S. S.Swami	M.E. Civil (Struct.)	Associate Professor	Structures	16 Yrs.	
4	Prof. V. M Bhogade.	M.E. Civil (Struct.)	Assistant Professor	Structures	7 Yrs.	
5	Prof. S. M.Birajdar	M. E. Civil (Struct.)	Assistant Professor	Structures	7 Yrs.	
6	*Prof. A. G.Ghalimath	M.E. Civil (Struct)	Assistant Professor	Structures	1Yr.	
7	*Prof. S. S.Manekari	M.E. Civil (Struct.)	Assistant Professor	Structures	4 Yrs.	
8	Prof. A. S.Ligade	M.E. Civil (Construction Management)	Assistant Professor	Construction Management	4Yrs.	Nil
9	Prof. A.G Chavan	M.Tech (Geotechnical Engg.)	Assistant Professor	Geotechnology	1 Yr.	
10	Prof. R.D Mudgundi	M.Tech (WRE and Envi.)	Assistant Professor	Water Resources and Environment	1 Yr.	
11	Prof. A.A. Kantikar	M. Tech. (Geotech)	Assistant Professor	Geotechnoogy	1 Yr.	
12	Prof. R.B.Adte	M.E. Civil (Struct.)	Assistant Professor	Structures	6 Mont h	
13	Dr. S. J. Pandit	Ph.D , M.Sc. (Geology). BEd,	Assistant Professor	Sedimentary Ground Water	38 Yrs.	

11. List of senior visiting faculty:

Sr. No	Name of Faculty	Academic Year	Class	Subject
1		2015-2016	S.E	Engg. Geology
2	Dr. S. J. Pandit	2014-2015	S.E	Engg. Geology
3		2013-2014	S.E	Engg. Geology
4		2012-2013	S.E	Engg. Geology

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: Nil

13. Student – Teacher Ratio (programme wise):
UG: Civil Engineering: 20.8:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Sr. No.	Academic Support Staff	Sanctioned	Filled
1	Number of academic support staff (Technical)	03	03
2	Number of administrative staff	01	01

15. Qualifications of teaching faculty with DSc/ D. Litt/ph.D/Mphil/PG.

Sr. No.	Degree	No of Faculty
1	Ph. D	Nil
2	Ph. D(Pursuing)	Nil
3	PG	12
4	PG(Pursuing)	01

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 :

Sr. No.	Name	Paper Publications			
		National Conference	International Conference	National Journals	International Journals
1	Prof. T. D.Maslekar	1	---	1	2
2	Prof. P. R. Hedgire	--	---	1	2
3	Prof. P. S.Swami	2	---	2	4
4	Prof. V. M.Bhogade	2	---	1	4
5	Prof. S. M.Birajdar	1	---	1	4
6	*Prof. A. G.Ghalimath	1	---	1	6
7	Prof. S. S.Manekari	---	---	---	2
8	Prof. A. S.Ligade	1	---	1	3
9	*Prof. A. A.Kantikar	1	---	1	2
10	Prof. A.G.Chavan	1	---	-	1
11	Prof. R. D.Mudgundi	---	---	---	1
12	Prof. R.A.Adte	---	---	---	1

20. Areas of consultancy and income generated:

Sr. No.	Area of Consultany	2012-13 (Rs.in Lakhs)	2013-14 (Rs.in Lakhs)	2014-15 (Rs.in Lakhs)	2015-16 (Rs.in Lakhs)
1	Concerte Cube Testing	0.64	1.46	1.78	2.52

21. Faculty as members in : a) National committees   : Nil
                                b) International Committees : Nil
                                c) Editorial Boards   : Nil

22. Student projects :
a) Percentage of students who have done in-house projects including inter departmental/programme :

Sr. No.	Academic Year	Percentage of student who have done In-house projects
1	2012-2013	100%
2	2013-2014	100%
3	2014-2015	100%
4	2015-2016	100%

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies: Nil

23. Awards/ Recognitions received by students :

Sr. No.	Academic Year	Name of Faculty / Student	Event/ Area	Award / Recognition
1	2013-14	Mr. Sayyed T.A.S.U	AutoCad Competition at NKOCET, Solapur	1st prize
2	2013-14	Mr. Sayyed T.A.S.U	AutoCad Competition at SKNCOE, Solapur	2nd Prize
3	2013-14	Mr. V.B.Bolli	Truss Model Making Competition at IIT, Mumbai.	Participation
4	2013-14	Mr. A.S.Gote Mr. V.B.Bolli	Truss Model Making Competition at COE, Pune	Participation
5	2014-15	Mr. V.B.Bolli Mr. B.A.Awaje	Truss Making Competition at AGPIT, Solapur	1st prize
6	2014-15	Ms. S. More Ms.C.Jamadar	Model Making Competition at AGPIT, Solapur	1st Prize
7	2014-15	Mr. M.Hatti Mr. Y.Waghmare	Replica at NBNCOE, Solapur	2nd Prize
8	2014-15	Mr.B.A.Awaje Mr. M Hatti	Model Making Competition at SGI VIBRANT, Kolhapur	2nd Prize
9	2014-15	Mr.V.B.Bolli Mr. B.A.Awaje	Fabrica (Column) at SKNSCOE, Korti	2nd Prize
10	2014-15	Mr.V.B.Bolli Mr. B.A.Awaje	T-Section Fabrica (Column) at SKNSCOE, Korti	1st Prize

11	2014-15	Mr.V.B.Bolli Mr.B.A.Awaje Mr.S.Shaikh Mr. Y.Waghmare, Mr. P.Wakse etc.	Mudda- E.Youth Festival orgnised by Solapur University	1st Prize
12	2014-15	Mr. S.Shaikh	Solgan Competition of Solid Waste Managemnt organized by IEI Solapur	2nd Prize
13	2015-16	Mr. A.P.Hedgire	Fabric T-Section of SIVILZE2K16 at SKNCOE, Solapur	1st Prize
14	2015-16	Mr. A.P. Hedgire	CAD-WAR at NKOCET, Solapur.	1st Prize
15	2015-16	Mr. A.Tadkal	Model Making at N.B. Navale Sinhgad College Of Engineering, Solapur.	Runner up
16	2015-16	Mr. A.P. Hedgire	Cad Skill at N.B. Navale Sinhgad College Of Engineering, Solapur.	Runner up
17	2015-16	Mr.D.Shaikh	Model making at N.B. Navale Sinhgad College Of Engineering, Solapur.	Runner up
18	2015-16	Mr. V.H.Agarwal	First Engineering student to represent Solapur University Basketball Team.	5th Position
19	2015-16	Mr. T.M.Hannure	Winning Table Tennis Game under Solapur university	1st Prize
20	2016-17	Mr. R.Bolli	Model Making at N.K.Orchid College of Engg. and Tech, Solapur	1st Prize
21	2016-17	Mr. M.D.Pawar	Mix Design and Concrete Block Testing at N.K.Orchid College of Engg. and Tech, Solapur	1st Prize
22	2016-17	Mr. S.Manthalkar	Wonder Tender at WIT Solapur	1st Prize
23	2016-17	Mr. A.Kuchi	Interview Mania at AGPIT Solapur	1st Prize
24	2016-17	Mr. R. Pogul	Paper Tower at AGPIT Solapur	1st Prize

24. List of eminent academicians and scientists/ visitors to the department :

Sr.No.	Name of EminentScientists/Industrialist, Organization	Topic	Date
1	Dr. Krinshna Vedula, Director, IUSCEE	Leading international / foreign university on expected foreign university bill on India	19/01/2011
2	Dr. Prof. M.R.Shiyekar Professor, Sinhgad College of Engg , Vadgaon, Pune	Scope of Civil Engg. and Lab Developement	10/8/2011
3	Dr. M. S. Gosavi, Gokhale education Society, Nasik	How to make higher education value based and effective	31/10/2011 to 02/11/2011
4	Prof. G. J.Kulkarni Asst. Prof., Sinhgad College of Engg, Solapur	Lab Development	18/09/2012
5	Prof. D.D.Maslekar *Ph.D.Research scholar, IIT, Mumbai	Guest Lecture on Theories of Elastic failure	12/03/2016
6	Er. S.P.Kumbhar Asst. Engg., Maharashtra Jeveen Pradhikaran, Aurangabad	A Guest Lecture for all Civil Engg. Students on "Career Opportunities in Competitive Exams in Civil Engineering."	25/07/2014
7	Mr. Ritesh Khaire and Mr.Vijay bamanalli from Shri OM TMT bars, Solapur	Manufacturing of Steel Bars.	22/02/2015
8	Er. S.S.Furde Former President, Confederation of Real Estate Developers Associations of India, Solapur	Guest Lecture	8/09/2015
9	Er.C. Loni Project Manager, Alacrity construction pvt.Ltd.,Solapur	Guest Lecture "MNC companies and Engineering Students"	13/08/2015
10	Er. Pathak S H.R. Manager, Rohan Builders, Pune	Guest Lecture "Civil Engineering Field"	15/02/2016
11	Er.P.N. Kore Assistant Executive Engineer, Public Work Department, Nashik	Guest Lecture	19/09/2016
12	Mr. D.Suryavanshi, Yoga Teacher, Vivekanand Kendra, Solapur.	Guest Lecture "Importance of YOGA in life"	2/08/2016

25. Seminars/ Conferences/Workshops organized and the source of funding:

Sr. No.	Academic Year	Workshops Title	Resource Person	Audience
1	2015-2016	Three Days Workshop on Revet Arch.	V.B.Bolli (Expert in Revert Arch, Solapur)	Student

2	2015-2016	Two Days Workshop on STAAD Pro.	by Prof. S.M.Birajdar (Assist. Prof., AGPIT, Solapur)	Student
3	2015-2016	Orientation Programme on MS-PRO	Pro by Er. C.Loni. (Project Manager, Alacrity Construction Pvt. Ltd, Solapur)	Student
4	2015-2016	Orientation Programme on Autocad	A .Kandale (Lecturer, Women's Polytechnic, Solapur)	Student
5	2016-2017	Three Days Workshop on Autocad	Mr. T.Sayyed (Expert, CADD Centre, Solapur)	Student

26. Student Profile program/ course wise: _

Sr. No.	Academic Year (Graduation)	Applications Received(First Year)		Enrolled First Year students Gender		Final Year on Roll students including lateral entry	No. of Successful Students	Pass percentage
		First Year	Direct Second Year	*M	*F			
1	2013-14	60		17	02	6	6	100%
2	2014-15	60		14	00	9	9	100%
3	2015-16	60		20	01	23	19	82.60%
4	2016-17	60		09	02	32	--	Current Year

*M= Male, *F= Female

27. Diversity of Students :

Name of the Course	Year	% of student from same state	% of student from other state	% of student from Abroad state
B.E. CivilEngg.	2010-11	100	0	0
	2011-12	100	0	0
	2013-14	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.?

Sr.no	Year	No of Students passing Civil Services
1	2015-16	01
2	2014-15	02
3	2013-14	01

29. Student progression :

Sr. No.	Year	Campus Selection	Off Campus	Higher Study	Entrepreneur	Total
1	2013-14	04	02	Nil	Nil	06
2	2014-15	Nil	03	04	02	09
3	2015-16	Nil	08	Nil	05	13

30. Details of Infrastructural facilities :

    a) Library Books Available :

Particulars	Titles	Volumes
Books		
U.G	454	2257
Online Journal		
Jgate	4618	NA
Delnet	179	NA
Printed Journal		
Printed Journal UG	06	Nil

    b) Internet facilities for Staff and Students :
- 100 Mbps leased line internet and Wi-Fi Campus.
- Departmental separate computer labs.

    c) Class rooms with facility :

Room Description	Usage	Shared/ Exclusive	Capacity	Room Equipped with
Class Room (Total 05)	S.E. to B.E. CivilEngg.	Exclusive	70 students	Black board and Projector LCD (Movable)

    d) Laboratories:

Laboratory Description in the Curriculum	Exclusive Use/Shared	Quality of Instruments	Laboratory Manuals
Applied Mechanics Lab	Exclusive	Operational	Available
Basic Civil Engg. Lab	Exclusive	Operational	Available
Civil Drg. Hall	Exclusive	Operational	Available

Fluid Mech. Lab	Exclusive	Operational	Available
Strength of Material Lab	Exclusive	Operational	Available
Transportation Engg. Lab	Exclusive	Operational	Available
Concrete Technology Lab	Exclusive	Operational	Available
Geotech Engg. Lab	Exclusive	Operational	Available
Engg. Geology Lab.	Exclusive	Operational	Available
Environmental Engg. Lab	Exclusive	Operational	Available
Computer Lab	Exclusive	Operational	Available

31. Number of students receiving financial assistance from college, University, government or other agencies:

Financial Assistance from government

- Students of backward class such as SC, ST, VJ, NT, SBC can apply for scholarship through which student get 100% tuition fee reimbursement.

- Students of OBC get 50% tuition fees reimbursement.

- Students from open, but whose guardians annual income is less than 1 lakh will get 50% tuition fee reimbursement.

- 5% of intake seats are filled under TFWS (Tuition Fees Waivers Scheme) on merit basis through which 100% tuition fee is exempted.

- PTC/STC scholarship is given to the student whose guardian is Primary/Secondary school teacher.

- Scholarship for minority class is also available.

Financial Assistance from College:

- For economically weak student college provide fee concession in tuition fee/ hostel fee/mess charge.

32. Details on student enrichment programmes (special lectures/ workshops / Seminar) with external experts:

Sr. No.	Name of Expert	Subject	Date	Participants
1	Er.S.P.Kumbhar (Asst. Engg., Maharashtra Jeveen Pradhikaran, Aurangabad)	A Guest Lecture for all Civil Engg. Students on "Career Opportunities in Competitive Exams in Civil Engineering."	25/07/2014	TE and BE CivilEngg.
2	Mr. V.B.Bolli (Expert in Revert Arch., Solapur)	Three Days Workshop on Revet Arch. Training Program	07/08/2015 to 08/08/ 2015	TE,CivilEngg.
3	Prof.S.M. Birajdar (Assit. Prof.	Three Days Workshop on "Application of Staad Pro. To	13/03/2016 to 14/03/ 2016	TE and BE,CivilEngg.

	A.G.P.I.T., Solapur)	structural analysis problems " for TE and BE civil engg. Students.		
4	Er. S.S. Furde (Former President, Confederation of Real Estate Developers' Associations of India, Solapur)	A Guest Lecture for all Civil Engg. Students on Quality required to become "Good Entrepreneur" and "How to minimize gap between theoretical and practical aspects of Civil Engineering".	08/09/ 2015	TE and BE, CivilEngg.
5	Er. C. Loni (Project Manager, Alacrity Construction Pvt. Ltd, Solapur)	A Guest Lecture for all Civil Engg. Students on "Selection criteria of Civil Engg. in MNC companies".	13/08/2015	TE and BE, CivilEngg.
6	Er. C.R. Khopade (Retired Sectional Engg, Irrigation Dept.,Koynanager, Satara)	A Guest Lecture for all Civil Engg. Students on "Koyna Hydroelectric Project and Lake Tapping".	21/01/2016	SE, TE and BE, CivilEngg.
7	Mr. S.Phatak (HR Manager, Rohan Builders, Pune)	A Guest Lecture for all Civil Engg. Students on "Industry Institute Interaction".	15/02/2016	SE, TE and BE, CivilEngg.
8	Prof. D.D Maslekar (Phd.Research Scholar, IIT, Bombay)	A Guest Lecture for SE Civil Engg. Students on "Structural Mechanics-II ".	12/03/2016	SE, CivilEngg.
9	Er. P NKore (Asst. Executive Engg., Public Work Department, Nashik)	A Guest Lecture for TE and BE Civil Engg. Students on "Competitive Exam (MPSC, UPSC and GATE)."	22/09/2016	SE, TE and BE, CivilEngg.

33. Teaching methods adopted to improve student learning:
- Effective Black Board teaching
- Expert Lectures / Seminars on important topic
- Tutorials and Seminars.
- Active and collaborative teaching
- Use of LCD
- Power point/Educational Animations presentation
- NPTEL e-learning Material for teaching
- Audio-video lectures
- Department Library Facility.
- Guest Lecture and Workshop.
- Industrial Tour and Industrial Visits
- Assignments/Semester Class Test
- Feedback Analysis.

- Internet Facility.
- Mentoring.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:
- Blood Donation Camp
- NSS camp
- Tree Plantation
- Celebrating Teachers Day.
- By involving students in National Festival, Celebration of Republic and Independence day.

35. SWOC analysis of the department and Future plans:

Strengths
- Core Branch
- Dedicated, young and dynamic faculty with good average experience.
- Consistent and good results of final year.

Weaknesses
- Deficiency of journals in departmental library.
- Poor exposure to Research and Development activity
- Moderate interaction with the construction industry

Opportunities
- Starting PG courses
- Setting up of centres of excellence in interdisciplinary areas
- NABL (National accreditation Board for testing and calibration laboratories) accreditation for some laboratories to enhance testing.
- Starting Skill based certification courses.

Challenges
- Fierce competence for acquiring quality human resources due toopening of new colleges and NIIT's.

Future Plan
- To enhance the academic abilities of staff and student
- Organize workshop/seminar and conferences
- MOUs with industries.

Evaluative Report of the Departments

1. Name of the Department   : Computer Engineering.
2. Year of Establishment   : 2008.
3. Name of Programmes/Courses offered (UG/PG/M.Phil., Ph.D., Integrated Masters, Integrated Ph.D., etc.)   : UG.-B.E.Computer Engineering.
4. Names of Interdisciplinary courses and the Departments/Units involved

Sr. No.	Class	Interdisciplinary courses	Departments Involved
1	S.E.- I	Applied Mathematics-I	General Science and Engineering
2	S.E.-II	Applied Mathematics-II	General Science and Engineering
3	S.E.-II	Environmental Studies	General Science and Engineering

5. Annual/Semester/Choice based creditsystem:SemesterandChoiceBased CreditSystem.
6. Participation of the department in the courses offered by other departments :

Sr. No.	Class	Interdisciplinary courses	Departments Involved
1	S.E.-I	Computer Programming	Mechanical Engineering
2	F.E.-I	C Programming	All Branches
3	S.E.-I	Advanced Data Structures	Electronicsand TelecommunicationEngg.
4	T.E.-I	Advanced Java	Mechanical Engineering

7. Courses in collaboration with other universities, industries, foreign institutions, etc.
   GATE-2016 Coaching Classes are being conducted by "Imperial IT Solutions" Incorporation, PUNE. A Memorandum of Understanding (MOU) has already been signed between the Institute and the Firm in this regard.

8. Details of courses/programmes discontinued (if any) with reasons.
   The course discontinued was Information technology from the academic year 2013-2014. The various reasons for the discontinuing according to the Hon'ble Management and staff are given below.
   - The main reason is the lackluster response for admissions to the course. The reason been the similarities in the syllabi of Computer Engineering (CE) course and Information Technology (IT) course. Nearly 95% similarities found in both the courses. As the general perception of the incumbent student is that CE is the mother branch and IT is a sub branch, then why go for IT than CE.

- The Solapur University later reframed/restructured the syllabus after the discontinuation of the IT course. But it was too late and by that time our Management had already applied for the closure of IT course.
- The second prominent reason is that very few polytechnics in and around the vicinity of Solapur has IT as the course. Hence the input to admissions to Direct Second Year Engineering in IT is discouraging.
- As Solapur doesn't have an IT park as other cities have, like for example Bengaluru, Hyderabad, Chennai and even Nagpur, Pune etc., hence employment of IT engineers is less guaranteed or discouraging in the vicinity of Solapur.
- Hence IT Engineers migrate to metropolitan cities in search of employment. Male engineers can afford this whereas most female engineers prefer to stay at their headquarters and get employed. But this is not the case of computer engineers, where there are a variety of multifaceted jobs in the market at urban or semi-rural places.

9. Number of teaching posts.

Sr. No.	Post	Sanctioned	Filled
1	Professors	01	00
2	Associate Professors	02	02
3	Assistant Professors	06	10

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./ Ph.D. /M.Phil. etc.,)

Sr. No.	Name	Qualification	Designation	Specialization	Exp. Yrs.	No. of Ph.D. guided
1	Prof. M.A. Khureshi	M.Tech(CSE)	HOD and Assoc.Prof	Computer GraphicsandArtificial Intelligence	20	Nil
2	Prof.A.K. Kannur	M.Tech(CSE), *Ph.D	Assoc.Prof.	DigitalImage Processing	16	Nil
3	Prof.A.S. Patil	M.Tech(IT)	Asst.Prof.	System Softwares	06	
4	Prof. A.B.Valsang	M.E.(CSE)	Asst.Prof.	Java and other programming languages	08	
5	Prof. A.A.Doshi	M.Tech(CSE)	Asst.Prof.	Computer Networks	07	
6	Prof. S.S.Konda	M.Tech(CSE)	Asst.Prof.	Operating systems	06	

7	Prof. S.V.Kulkarni	M.Tech(CSE)	Asst.Prof.	Web Technology	05	
8	Prof. R.S.More	M.Tech(CSE)	Asst.Prof.	Database systems	03	
9	Prof. K.S.Kamuni	M.Tech(CSE)	Asst.Prof.	Design and Analysis of Algorithms	04	
10	Prof. R.Katnalli	M.Tech(CSE)	Asst.Prof.	Computer systems and architectures	01	
11	Prof.S.Gajul	M.Tech(CSE)	Asst.Prof.	Data Mining and Web Technology	00	
12	Prof.A. Nazare	M.Tech(CSE)	Asst.Prof.	Information Retrieval and Software Engg.	00	

11. List of senior visiting faculty.

Sr. No.	Name Of Faculty	Academic Year	Class	Subject
1	Dr. A. B. Sahukar	2013-14	BE- Comp Engg.	Entrepreneurship Skills Development
2	Dr. M.A.Waheed	2015-16	TE-Comp Engg.	Computer Networks
3	Prof. A. Inamdar	2014-15	SE- Comp Engg.	Digital Techniques

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: Nil

13. Student-Teacher Ratio (programme wise)   : 16.25:1

14. Number of academic support (technical) and administrative staff; sanctioned and filled:

Sr. No.	Post	Sanctioned	Filled
1	Academic Support Staff (Technical)	02	02
2	Administrative Staff	02	02

15. Qualifications ofteaching faculty with DSc/D.Litt./Ph.D./MPhil/PG.

PG: 12   *Ph.D.: 01

Sr. No.	Degree	No. of Faculty
1	Ph. D	Nil
2	Ph. D (Pursuing)	01
3	PG	12

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

Sr No.	Author Name	Publications			
		National Conference	International Conference	National Journals	International Journals
1	Prof. M.A.Khureshi.	---	---	03	01
2	Prof. A.K.Kannur.	03	02	02	02
3	Prof. S.S.Konda	---	---	---	03
4	Prof. R.S.More	02	---	---	03
5	Prof. A.B.Valsang	01	---	---	05
6	Prof. A.S.Patil	---	---	01	02
7	Prof. K.S.Kamuni	---	---	---	02
8	Prof. S.V.Kulkarni	---	---	---	02
9	Prof.A. Nazare	01	01	02	

19. Publications: :NIL

20. Areas of consultancy and income generated.   :NIL

21. Faculty as members in a) National Committees   : 07

                     b) International Committees   : Nil

                     c) Editorial Boards   : Nil

22. Students projects

Sr.No	Academic Year	Percentage of students who have done in-house projects
1	2012-13	100%
2	2013-14	100%
3	2314-15	100%
4	2015-16	100%
5	2016-17	100%

23. Awards/Recognitions received by faculty and students. :

Sr.No	Academic Year	Name of Faculty / Students	Event and Area	Award/Recognition
1	2013-14	Prof.M.A Khureshi	Magazine competition	"Uttejnarth Award" by solapur university

2	2013-14	Prof. A.A. Doshi	"AbhiYuva2k14"Annual Gathering	Best Teacher Award
3	2013-14	Prof. S.B. Kone	"AbhiYuva2k14"Annual Gathering	Best Mentor
4	2013-14	Parchi Phophale	"AbhiYuva2k14"Annual Gathering	Best Outgoing Student award
5	2014-15	Varsha Gaikwad	"AbhiYuva2k14"Annual Gathering	1st Prize
6	2014-15	Vimlaxi Asreddy	"AbhiYuva2k15"Annual Gathering	Best Outgoing Student award
7	2015-16	Waghmare Pallavi, Mane Jyoti	Youth Festival at university, Mimicry	1st Prize
8	2015-16	Anand Sunchu	WITCHAR-15 Graphity	1st Prize
9	2015-16	Sanket Bobe (Caption)	2nd National Cricket Championship, Saharanpur, UP	Winner
10	2015-16	Anand Sunchu	"Avishkar2016", Project Competition	1st Prize
11	2015-16	Karishma Shaikh	"Avishkar2016", Project Competition	Best Outgoing Student award

24. List of eminent academicians and scientists/visitors to the department.:   06

Sr. No.	Name of eminent academicians and scientists/visitors to the department, Organization	Topic	Date
01	Dr. Anil Kakodkar –Scientist, BARC, Mumbai	Bridging science and technology	2013-14
02	Dr. Vijay Bhatkar – Chairman, C-DAC	How to make higher education value based and effective	31/10/2011 to 02/11/2011
03	Dr. Krishna Vedula- Director, IUSCEE	Views of leading international/foreign University on expected foreign University bill of India	19/01/2011
04	Dr.M.S.Gosavi- GokhaleEducationSociety, Nashik.	How to make higher education	31/10/2011 to 02/11/2011
05	Dr. ArunNigvekar - – VP, NASSCOM, Pune Region.	Cloud Computing and its eminence in engineering Institutes	2015-16
06	Mr.Degaonkar.N–VP, NASSCOM, Pune Region.	Cloud Computing and its eminence in engineering	2015-16

| 07 | Mr. Suryawanshi D , Yoga Teacher ,Vivekanand Kendra , Solapur. | Guest Lecture "Importance of YOGA in Life" | 02/08/2016 |
| 08 | Mr.Bharath Chougule | Director, King College of Technology, Nemakkal, Tamilnadu, Neuro linguistic Program(NLP) | 25/06/2014 |

25. Workshops organized and the source of funding.

Sr.No	Academic Year	Workshop title	Resource Person	Audience
01	2016	Tools and techniques in Java programming (self- financing)	Mr. S. M. Dodamani, Nanoclaire Solutions, Bangalore	BE-Comp. Enggand IT Students
02	2015	Android workshop. (self-financing)	NIIT, Solapur	BE- Comp. Enggand IT Students
03	2017	Workshop on NPTEL (self-financing)	Prof. AmeyDoshi, AGPIT, Solpapur	AGPPI Staff
04	2014	VC++ (Visual C++) workshop for Polytechnic students.(self-financing)	Prof. Kulkarni. S. V., AGPIT, Solapur	AGPPI Comp. Enggand IT Students

26. Student profile Program/Course wise:

Name of the Course/Programme	Applications received	Selected	Enrolled		Pass Percentage
			M	F	
Computer Engineering SE Part – II	60	60	26	50	70%
Computer Engineering TE Part – II	60	60	32	25	69%
Computer Engineering BE Part – II	60	60	29	33	100%

27. Diversity of students: In last 5 Years

Name of the Course	% of students from the same state	% of students from other states	% of students from abroad
Computer Engineering	95%	5%	NIL

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services etc.?

The following GATE qualified students since 2012:

- Details of successful students:

Year	Name of the students	GATE Score / AIR
2012	Nachiket More D.	Positive Valid Score
2014	FurquanBijapure MD.	Positive Valid Score
	PriyankaVhatkar S.	263/25532
2015	PallaviWaghmare	279/22021
	AejazAhamadMujawar	Positive Valid Score

- Civil Services Examination - NIL
- C-DAC course –02
- GRE and TOEFL – 02   (SuruRohan B.E.Comp. Engg (2013-14), SagarSingam B.E.Comp. Engg (2013-14))

29. Student progression

Student Progression	Against % enrolled
UG to PG	20%
PG to M.phil	NIL
PG to Ph.D.	NIL
Ph.D. to Post-Doctoral	NIL
Employed ➢ Campus Selection ➢ Other than Campus recruitment	➢ 50% ➢ 45%
Entrepreneurship/Self Employment	➢ 5%

30. Details of Infrastructural facilities
   a) Library. The Details of books Procured in the departmental library is shown below.
   b) Internet facilities for staff and students. : 100 MBPS Available
   c) Class rooms with ICT facility.
   d) Laboratories.

1. <u>Central Internet facility / Project Lab</u>

S.R.	Particulars	Nos
HARDWARE CONFIGURATION		
1.	Dell Inspiron Desktop- Intel Dual Core 2.9 GHz, 2Gb DDR2 Ram, 500GB SATA HDD, 18.5" Dell LCD Monitor.	97

S.R.	Particulars	Nos
2.	Epson LQ 300+II Printer	01
SOFTWARE CONFIGURATION		
1.	Operating System Win XP (Service Pack 2) Installed	97
2.	Turbo C and C++ 3.0 Installed	97
3.	Microsoft Visual Studio 2008 Installed	97
4.	Oracle 9.0 Installed	97
5.	Java 6.0 Installed	97
6.	Microsoft Office 2007 Installed	97
Total Lab Area: 221.57 sq.m		
Total Cost of Laboratory:22,50,000/-		

2.   Computer Network Lab

S.R.	Particulars	Nos
HARDWARE CONFIGURATION		
1.	Dell Inspiron Desktop- Intel Dual Core 2.9 GHz, 2Gb DDR2 Ram, 320GB SATA HDD, 18.5" Dell LCD Monitor.	24
2.	Epson LQ 300+II Printer	01
SOFTWARE CONFIGURATION		
1.	Operating System UBUNTU 10.4,Widows XP,Windows 7 installed	24
2.	Inbuilt GCC and G++ Installed	24
3.	Inbuilt Open Office Installed	24
Total Lab Area: 66 sq.m		
Total Cost of Laboratory: 5,20,100/-		

3.   Computer Programming Lab

S.R.	Particulars	Nos
HARDWARE CONFIGURATION		
1.	Dell Inspiron Desktop- Intel Dual Core 2.9 GHz, 2Gb DDR2 Ram, 320GB SATA HDD, 18.5" Dell LCD Monitor.	23
2.	Epson LQ 300+II Printer	01

	SOFTWARE CONFIGURATION	
1.	Operating System UBUNTU 10.04,Windows 7 Installed	23
2.	Inbuilt GCC and G++ Installed	23
3.	Inbuilt Open Office Installed	23
Total Lab Area: <u>66 sq.m</u>		
Total Cost of Laboratory: 5,20,100/-		

4. <u>Database Lab</u>

S.R.	Particulars	Nos
HARDWARE CONFIGURATION		
1.	Dell Inspiron Desktop- Intel Dual Core 2.9 GHz, 2Gb DDR2 Ram, 320GB SATA HDD, 18.5" Dell LCD Monitor.	18
2.	LG MyPC Intel P4, 1.8 GHz, 1GB RAM, 160GB HDD, Keyboard and Mouse, 17" Monitor	06
SOFTWARE CONFIGURATION		
1.	Operating System Windows XP Installed and Windows 7	24
2.	Oracle 10g, TC and JDK Installed	24
3.	SQL, .NET and Net beans	24
4.	Ms-office 2007	24
Total Lab Area: <u>66 sq.m</u>		
Total Cost of Laboratory: 4, 95,390/-		

5. <u>Advance Programming Lab</u>

S.R.	Particulars	Nos
HARDWARE CONFIGURATION		
1.	Dell Inspiron Desktop- Intel Dual Core 2.9 GHz, 2Gb DDR2 Ram, 320GB SATA HDD, 18.5" Dell LCD Monitor.	24
SOFTWARE CONFIGURATION		
1.	Operating System Windows XP Installed and Windows 7	24
2.	Oracle 10g, TC and JDK Installed	24

3.	SQL, .NET and Net beans	24
4.	Ms-office 2007	24
Total Lab Area: <u>66 sq.m</u>		
Total Cost of Laboratory: 5, 11,200/-		

31. Number of students receiving financial assistance from College, University, Government or other agencies. : AnandSunchu, BE – Comp. undergoing a project titled "Digital Notice Board", received Rs. 5000 /- financial Assistance for the year 2016-17.

32. Details of student enrichment programmes (special lectures/workshops/seminars) with external experts.

Many seminars have been conducted. The details of which have been kept at the department.

33. Teaching methods adopted to improve student learning.

To adopt best practice with minimum economical burden we have chosen 'MOODLE' (MODULAR OBJECT ORIENTED DYNAMIC LEARNING ENVIRONMENT) an open source tool.

Moodle is a <u>free and open-source software</u> <u>learning management system</u> written in <u>PHP</u> and distributed under the <u>GNU General Public License</u>. Developed on <u>pedagogical</u> principles Moodle is used for <u>blended learning</u>, <u>distance education</u>, <u>flipped classroom</u> and other <u>e-learning</u> projects in schools, universities, workplaces and other sectors. Moodle is a learning platform designed to provide educators, administrators and learners with a single robust, secure and integrated system to create personalized learning environments.

We have also implemented a Video-On-Demand service at AGPIT campus for sharing educational video content along with video lectures for prominent IIT professors under the NPTEL mission under Ministry of Human Resources, Government of India. Student of all branches can watch video lectures from these IIT professors and make their complex concepts easy to understand. *NPTEL* provides E-learning through online Web and Video courses various streams. We have extended our available IT infrastructure and made full utilization of core fiber optic network laid down across AGPIT campus as backbone network. Students can access these videos on their laptops and cell phone when connected to AGPIT network.

34. Participation in Institutional Social Responsibility (ISR) and extension activities.

The Institute

1. The Students of AGPIT, under the NSS activities took active participation in the "Cashless Transaction Drive" launched by the present Modi Government under the program "VittiyaSakshartaAbhiyan (VISAKA)" and preached the small, medium and large scale vendors, in the vicinity of Solapur regarding the Drive in the month of January 2017. The related photos are pasted for kind reference.

Cashless transaction drive

2. The Institute actively participated in the JEE Awareness program for Class-XII, by forming teams for various rural and urban destinations in and around Solapur, like Akkalkot, Naganahalli, Mandrup, Vadala, etc.

The Awareness program included

a. Course contents of JEE.

b. Coaching classes in basic sciences like Mathematics, Chemistry and Physics etc.

c. How to attempt JEE and get positive score?

d. Relevance of Admissions in engineering gradation.

3. Conducted Guest Lectures in Polytechnics, in and around Solapur with a view on making student masses aware about Avenues and scope in engineering graduation.

35. SWOC analysis of the department and future plans.

SWOC ANALYSIS

STRENGTH

- The Department of Computer Engineeringis based on a unique philosophy of education, which combines the materials with the spiritual and offers students to develop themselves as fully integrated and equipped with interpersonal and intrapersonal skills.
- The Department of Computer Engineering can boast of near perfect academic discipline. There has been no disruption in the Academic Calendar due to disturbances that institutions of higher learning generally experience in India.
- The Department of Computer Engineering has a dedicated faculty, highly efficient support staff, and a team of monastic members who are available on the campus during the academic working hours and take care of all aspects of the campus, the academic and the personal.
- The number of publications conferences attended pursuing higher credentials by the faculty members in the last four years has been commendable.
- The performance of the students of the Department of Computer Engineering in the national level competitive and entrance examinations like IIT- GATE, GRE, MPSC etc. has been excellent.

- The students of the Department of Computer Engineeringtry to live up to the vow of a Vidyarthi and dedicate themselves fully to the acquisition of knowledge and character building exercise. This explains the existence of a healthy campus life with no incidence of ragging or any activity that is detrimental to their academic pursuits.
- The state of the art infrastructural support offered by the Department of Computer Engineering to students can be compared with the best in this part of the country. The teacher-student ratio, which is perhaps unparalleled in the country, makes it possible for teachers to successfully address individual need of the students.
- The Department of Computer Engineeringis considered a reputed institution of higher learning and this makes it possible to get a great deal of support and co-operation from other institutions of higher learning as well as industrial houses, formally and informally.
- The Department of Computer Engineeringhas an active alumni association which works in close co-operation with the Institute administration. It offers scholarship to the existing as well as passed out students. It also offers medical help to the existing students and needy people belonging to the neighborhood.
- The NSS wing of the Dept. of Computer Engineeringhave been very active and have participated with great enthusiasm in activities like blood donation, first aid training, health awareness, engineering avenues survey, JEE and CET awareness campaign etc.
- The Department of Computer Engineeringreceives active co-operation from the parent university (Solapur University). They have been of great help in running the Institute by offering their expertise in establishing the administrative and academic set-up.
- The Department ofComputer Engineeringruns a number of programmes to reach out to the larger community. The JEE (Joint Entrance Examination for Engineering) and CET (Common Entrance Text for Engineering) awareness programs are held by the Institute to bring awareness among the larger community and down trodden community in particular.

WEAKNESSES

- The socio-economic background of many of the students (some of them are first and second generation learners) admitted in the Institute is responsible for poor language competence (both in their mother tongue as well as English). This leads to an unsatisfactory level of comprehension and communication, particularly in the first two semesters.
- Within the existing structure the Institute finds it difficult to respond to the varied needs of its students coming from different socio-economic and cultural background.
- Students coming from the underprivileged section of society generally lack in confidence and get inclined towards inferiority complex, which hinders towards the proper growth, self dependence and physical up man ship. They also lack the desired level of hygiene consciousness.
- A few students coming from the urban background belong to either nuclear or broken families. Some of them find it difficult to cope with the demands of a community life based on caring and sharing. Sometimes this leads to psychological imbalance.
- The semester system poses a number of problems which the Institute has not been able to come to terms with, the reason being that Solapur University, to which the Institute is

affiliated is a non technological university. To remove this deficiency (coping with a Non technological University)The Institute has further

OPPORTUNITIES:

- The level of academic excellence which the Institute has acquired makes it possible for our students to get entry into Institutes of global repute. The Institute has to devise mechanisms for translating this potential into a reality.
- The new learning of the age requires greater proficiency in soft skills among students. The Institute has the necessary technical and infrastructural resources to take this to a higher level.
- The vision of the Institute makes it imperative to engage in socially relevant programmes such as organizing voluntary blood donation camps, AIDS awareness programmes, and disaster management skills. The Institute with its resources and networking can ensure students' greater participation in these activities.
- The Institute possesses the academic and financial resources to publish peer reviewed research journals. The Institute is poised to take the initiative in this regard. The Institute had already organized an International Conference NITET and every year this trend of organizing International conference will continue.

CHALLENGES:

- Retaining the unique character of the Institute in an increasingly consumerist society poses a great challenge to the ideals the institution upholds.
- As Solapur city comprises of majority rural areas hence the students are well versed in vernacular language that is Marathi. This leads to an unsatisfactory level of comprehension and communication, particularly in the first two semesters, especially in the English Language.

Evaluative Report of the Department

1. Name of the Department **:Electronics and Telecommunication Engineering**

2. Year of establishment **:2008**

3. Names of programmes offered
(UG, PG, M.Phil., Ph.D., Integrated
Masters; Integrated Ph.D., D.Sc.,
D.Litt., etc.) : **UG B.E Electronics and Telecommunication Engineering**

4. Interdisciplinary programmes and departments involved:

Sr. No.	Class	Inter disciplinary courses	Department Involved
1	S.E-I	Engineering Mathematics-III	General Science and Engineering
2	S.E-I	Data Structures	Computer Engineering
3	S.E-II	Environmental Studies	General Science Engineering
4	T.E-I	ESL-II	Computer Engineering

5. Annual/semester/choice based credit system (program-wise):U.G - Semester Pattern

6. Participation of the department in the courses offered by other departments:

Sr. No.	Class	Interdisciplinary Courses	Department Involved
1	B.E-II	Mechatronics	Mechanical Engineering
2	T.E-II	ACT-II	Mechanical Engineering
3	S.E-II	Microprocessor	Computer Engineering
4	S.E-II	Switching Technique and Logic Design	Computer Engineering
5	F.E-II	Basic Electronics Computer Programming	General Science
6	F.E-I	Basic Electrical Engineering	General Science

7. Courses in collaboration with other universities, industries, etc.:

Sr. No.	Course Name	Participating Institute / Industry
1.	PCB Designing	AkiwatePCB, Pune

2.	PCB Designing	Angels Technology, Pune
3.	Learning German Language	Dr. Valsangkar S. P., Solapur

8. Details of courses/programs discontinued (if any)with reasons: Nil

9. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) :

Sr. No.	Post	Sanctioned	Filled
1	Professors	01	-
2	Associate Professors	02	01
3	Assistant Professor	06	13

10. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance :

Sr. No.	Name of the Faculty	Qualification	Designation	Specialization	Years of Experience (Nos.)	Ph.D. / guided
1.	Prof. S.J Ligade	M. Tech	Assistant Professor	Embedded Systems	08 Yrs.	
2.	Prof. S. R Sakhare	Ph. D.* M. E.	Associate Professor	Image Processing	21Yrs.	
3.	Prof. R. V Darekar	Ph. D.* M. E.	Assistant Professor	Speech Processing	14 Yrs.	
4.	Prof. S.D.Pujari	M.E	Assistant Professor	Electronics	7.8 Yrs.	
5.	Prof. A.S.Jirage	M.E	Assistant Professor	EandTC	8 Yrs.	
6.	Prof. S.P.Katke	M.E.	Assistant Professor	Electronics	7 Yrs.	
7.	Prof. T.A. Fating	M.E	Assistant Professor	Very Large Scale Integration	4 Yrs.	Nil
8.	Prof. S.V. Patil	M.Tech	Assistant Professor	Digital Communication	4 Yrs.	
9.	Prof. R.D. Metri	M.E.	Assistant Professor	Signal Processing	2 Yrs.	
10	*Prof. M.R. Gangul	M.E	Assistant Professor	Power Electronics	19Yrs.	
11.	*Prof. S.S. Gurav	Ph. D.* M.Tech	Assistant Professor	Embedded System	14Yrs.	
12.	Prof. A. A. Raikar	M.Tech	Assistant Professor	Communication System	6months	

| 13. | Prof. S.V. Munkanpalli | M.E | Assistant Professor | EandTC | 6months | |
| 14. | Prof. V. S. Amale | M.E | Assistant Professor | Digital Systems | 4months | |

* indicates faculties are pursuing Doctorate

11. List of Senior Visiting Fellows, adjunct faculty, emeritus professors:

Sr. No.	Name of Faculty	Academic Year	Class	Subject
1.	Prof. S.M.Jangam	2014-15, 2015-16	F.E-I	Basic Electrical Engineering
2.	Prof. S.M.Jangam	2014-15, 2015-16	F.E-II	Basic Electronics, Computer Programming
3.	Dr. Muneer Sayyed, G. M., Reliance Jio, Mumbai	2016-17	B. E.	Adjunct Faculty

12. Percentage of classes taken by temporary faculty – programme-wise information: Nil

13. Programme-wise Student Teacher Ratio: **5.84:1**

14. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual:

Sr. No.	Post	Sanctioned	Filled
1	Academic Support Staff (Technical)	03	03
2	Administrative staff	01	01

15. Qualifications of teaching faculty with D.Sc. /D.Litt. /Ph.D. /MPhil/PG**.**

Sr. No.	Degree	No. of Faculty
1	Ph. D	Nil
2	Ph. D (Pursuing)	03
3	PG	11
4	PG (Pursuing)	Nil

16. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.: Nil

17. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.;

total grants received: Nil

18. Research facility / Centre recognized by the university: Nil

19. Publications:

Sr. No.	Faculty Name	Publications			
		National Conference	International Conference	National Journals	International Journals
1	Prof. S. JLigade	03	1	---	--
2	Prof. S. R Sakhare	03	04	--	04
3	Prof. R. V. Darekar	04	03	01	2
4	Prof. S. DPujari	03	04	--	04
5	Prof. A. S. Jirage	03	02	0	04
6	Prof. S. P. Katke	1	---	03	02
7	Prof. T. A. Fating	02	01	---	---
8	Prof. R. D Metri	02	01	--	03
9	*Prof. M. R Gangul	03	04	--	02
10	*Prof. S. S.Gurav	01	03	---	04
11	Prof. A. A.Raikar	00	01	---	02
12	Prof. S. V.Munkantalli	---	01	---	---
13	Prof. V. S. Amale	---	01	---	01

20. Area of Consultancy and income generated:

Sr. No.	Year	Nature of work	Name of Agency	Quantities given to agency
1	2012-13	PCB Designing	AGPPI, Solapur	35
2	2013-14	PCB Designing	AGPPI, Solapur	40
3	2014-15	Science Projects	Shanti English Medium School, Solapur	33
4	2015-16	Science Projects	BF Damani Marathi Med.School, Solapur	42

21. Faculty as members in

a. Nationalcommittees   : Nil

b. InternationalCommittees   : Nil

 c. EditorialBoards, etc.   : Nil

22. Student projects

a.Percentageofstudentswhohavedonein-houseprojectsincludinginterdepartment-

Sr. No.	Academic Year	Percentageofstudentswhohave donein-houseprojects
1	2012-13	100%
2	2013-14	100%
3	2014-15	100%
4	2015-16	100%
5	2016-17	100%

23. Awards/Recognitions received by faculty and students:

Sr. No.	Academic Year	Name of Faculty / Students	Event and Area	Award / Recognition
1	2012-13	Prof. V. N. Jokare	Solapur University Student Association, Solapur	Best Teacher
2	2012-13	Prof. S. J. Ligade	ABHIYUVA, AGPIT, Solapur	Best Academician
3	2012-13	Prof. R. S. Khamitkar	ABHIYUVA, AGPIT, Solapur	Best Mentor
4	2012-13	Mrs. M. A. Deshpande	ABHIYUVA, AGPIT, Solapur	Best Lab Assistant
5	2013-14	Prof. S. D. Pujari	ABHIYUVA, AGPIT, Solapur	Best Teacher
6	2013-14	Prof. A. S. Jirage	ABHIYUVA, AGPIT, Solapur	Best Mentor
7	2013-14	Mr. L. C. Maindargi	ABHIYUVA, AGPIT, Solapur	Best lab Assistant
8	2012-13	Mr. Rahul R. Kashid (B.E.)	VisoTech, Poster Competition	1st

9	2012-13	Mr. Rahul R. Kashid and Ms. Prajakta Rawal (B.E.)	Exalt 2013, Poster Competition	2nd
10	2014-15	Ms. Yogita Deshpande (S.E.)	EYF 2015, Collage Competition	3rd
11	2014-15	Ms. Yogita Deshpande (S.E.)	WitChar'15, Quizotronics	1st
12	2015-16	Mr. Amirkhan Pando	WitChar'15 Coding	1st
13	2016-17	Mr. Keskar Shubham Ms. Anabule Snehal	Dipex'2K17 (State Level Project Competition)	Winner
14	2016-17	Mr. Babar Aniket	AG-TECHFEST 2K17 Paper Presentation	Consolation
15	2016-17	Mr. Amirkhan Pando	Techinal Event in Sinhgad, Solapur	1st
16	2016-17	Mr. Amirkhan Pando	WitChar'17, Coding	2nd
17	2016-17	Ms. Priyanka Sanmukh	State level Baseball competition 2017	1st
18	2016-17	Ms. Priyanka Sanmukh	Disc Throw, Solapur University	3rd
19	2016-17	Ms. Priyanka Sanmukh	Power Lifting, Solapur University	2nd
20	2016-17	Ms. Priyanka Sanmukh	Soft ball, National level	2nd
21	2016-17	Ms. Priyanka Sanmukh	Power lifting, State level	3rd
22	2013-14 to 2016-17	Mr. Amirkhan Pando	University Exams	University Topper

24. List of eminent academicians and scientists/visitors to the department:

Sr. No.	Name of Eminent Scientists/ Industrialist	Topic	Date
1	Dr. S. T. Patil, Professor, VIT, Pune	Communication System	4/2/2013
2	Dr. Aditya Abhyankar, MITCOE, Pune	Image Processing	12/8/2012
3	Prof. P. M. Nerkar, Asst. Prof. D.Y.Patil, Pune	Digital Technique	8/20/2012
3.	Prof. C. B. Joshi, Asst. Prof., PVGCOE, Pune	Microcontroller and Applications	3/31/2013
4	Prof. P. C. Dhage, Asst. Prof., MIT, Pune	Embedded System	8/10/2013
5	Prof. S.S. Dhavale., Asst. Prof., BIT, Barshi	Radar and Microwave	2/22/2014
6	Mr. Lankeshwar Richard, Student, AGPIT, Solapur	Fundamentals of Robotics	8/24/2013
8	Prof. S.S. Dhavale., Asst. Prof., MIT, Pune	Digital Communication	2/22/2014
9	Dr. Ravindra Hegadi, Solapur University, Solapur	Pattern Recognition	3/19/2014
10	Mr. Ashish Fating, Manager, NTPC Solapur	Circuit and Networks	9/1/2014
11	Prof. H. V. Kulkarni, Asst. Prof. Sinhagad Institute, Narhe, Pune	Microcontroller	9/9/2014
12	Prof. Vishwas Patange, Asst. Prof., STBCET, Tuljapur	Optical Communication	3/10/2015
13	Mr. Mayur Umbrajkar, Software Engg., Banglore	VLSI Design	3/10/2015
14	Ms. Prajakta Rawale, Tech. Lead, LandT Infotech, Pune	Software Engineering	9/19/2015

15	Mrs. Archana Khairat, Software Engg., Syntel Inc.Pune	General Awareness	10/10/2015
16	Dr. Y.S.Rao, Professor, SPIT, Mumbai	PLC Robotics	22/01/2016
18	Dr. S P. Valsangkar, Neurologist, Valsangkar Hospital, Solapur	Learning German Language	01/08/2016
19	Prof. K. L. Kazi, Asst. Prof., BMIT, Solapur	Radar and Microwave Engineering	11/02/2017

25. Seminars/Conferences/Workshops organized and the source of funding:

Sr. No.	Date	Title	Resource Person	Audience
1	21 to 22 July 2012	PCB Designing Workshop	Mr. SubhashAkiwate, Director, akiwatePCB	Students
2	23 to 24 July 2013	PCB Designing Workshop	Mr. SubhashAkiwate, Director, akiwatePCB	Students
3	29 Jan.2014	Scilab	FOSEE (Online)	Students
4	07 to 09 Feb. 2014	Electronic Circuit Design and Simulation	Mr. Ligade S.J., Asst. Prof. AGPIT, Solapur	Students
5	10 Oct.2014	OSCAD	FOSEE (Online)	Students
6	28 to 30 Jan.2015	Electronic Circuit Design andSimulation	Mr. Ligade S.J., Asst. Prof. AGPIT, Solapur	Students
7	29 to 31 July 2015	PCB Designing Workshop	Mr. SubhashAkiwate, Director, akiwatePCB	Students
8	23 and 24 Jan.2016	PLC and Robotics	Dr. Y.S. Rao, Professor, SPIT, Mumbai	Faculty
9	5 to 7 Feb.2016	Advanced Programming using Matlab for Signal Processing	Mr. Darekar R.V., Asst. Prof. AGPIT, Solapur	Students
10	10/02/2017 to 13/02/2017	VLSI design and Programming	Mr. Ligade S. J. Mr. Darekar R. V.	Students

| 11 | 21/04/2017 to 23/04/2017 | Raspberry Pi | Er. Mohan Kondle, Vedam labs, Solapur | Students |

26. Student profile program/course-wise:

Sr. No.	Academic Year	Applications received		Selected		Enrolled				Pass percentage B.E
		F.E	DSE	F.E	DSE	*M		*F		
						F.E	DSE	F.E	DSE	
1	2012-13	22	35	22	35	14	18	8	17	98.46
2	2013-14	8	34	8	34	4	24	4	9	97
3	2014-15	6	27	6	27	1	11	5	15	87
4	2015-16	6	10	6	10	1	3	4	6	80.43
5	2016-17	3	6	3	6	0	0	3	6	----

*M = Male, *F = Female

27. Diversity of Students:

Sr. No.	Academic Year	% of students from same state	% of students from other States	% of students from abroad
1	2012-13	100	----	----
2	2013-14	100	----	----
3	2014-15	99	01	----
4	2015-16	100	----	----

28.Howmany students have cleared national and state competitive examination such as NET, SLET, GATE, Civil-services, Defense services, etc.?

Sr. No.	No. of Students appeared for GATE exam	No. of students cleared GATE exam	Year
1	30	1	2013-14
2	25	1	2015-16
3	35	1	2016-17

29. Student progression:

Sr. No.	Year	Campus Selection	Off Campus	Higher Study	Entrepreneur	Total
1.	2012-13	16	40	20	00	76
2.	2013-14	15	50	10	00	75
3.	2014-15	12	59	13	00	84
4.	2015-16	13	31	02	01	46

30. Details of Infrastructural facilities

    a) Departmental Library:Yes

        Books: 30

        UG Project reports: 64 (2012 to 2016)

        Industrial Training reports: 200

        E-study material (For S.E, T.E and B.E): 486 files

    b) InternetfacilitiesforStaff and Students

        Yes,100Mbps with Wifi.

    c) ClassroomswithICTfacility

        Yes.

Sr. No.	Type of Room	Area in Sq. m	Student Capacity	Usages	Equipped with
1.	Class Room No. Q104	66.26	60	Classroom	Blackboard and Projector
2.	Class Room No. Q103	66.26	60	Classroom	Blackboard and Projector
3.	Class Room No. Q110	66.26	60	Classroom	Blackboard

    d) Laboratories

        Yes.

Sr. No.	Name of the Lab	Lab Area (in Sq.mts)	Total Investment (in Rs.)
1.	PCB Lab	74.04	84,950
2.	Internet and Project Lab	81.43	12,27,553
3.	Electronic and Software Lab	81.43	15,51,728
4.	Robotics Lab	81.43	2,43,651

5.	Electronic Circuit Lab	74.04	7,55,305
6.	Microprocessor Lab	81.43	3,33,305
7.	Electrical Lab	65.43	4,05,100
8.	Switching and Digital Circuit	74.04	7,46,178
9.	Communication System	70.04	11,58,186

31. Number of students receiving assistance from college, university, government or other authorities:

Financial Assistance from government

- Students of backward class such as SC, ST, VJ, NT, SBC can apply for scholarship through which student get 100% tuition fee reimbursement.
- Students of OBC get 50% tuition fees reimbursement.
- Students from open, but whose guardians annual income is less than 1 lakh will get 50% tuition fee reimbursement.
- 5% of intake seats are filled under TFWS (Tuition Fees Waivers Scheme) on merit basis through which 100% tuition fee is exempted.
- PTC/STC scholarship is given to the student whose guardian is Primary/Secondary school teacher.
- Scholarship for minority class is also available.

Financial Assistance from College:

- For economically weak student college provide fee concession in tuition fee/ hostel fee/mess charge.

32. Details on student enrichment programmes (especially lectures / workshops / seminar) with external experts:

Sr.No.	Name of Expert	Subject	Date	Participants
1	Dr.S.T.Patil, VIT, Pune	Communication Systems	02/04/2013	T.E. EandTC students
2	Dr. Aditya Abhyankar, VIT, Pune	Image Processing	12/8/2012	B.E. EandTC students
3	Prof.P. C. Dhage, MIT, Pune	Embedded Systems	10/08/2013	B.E. EandTC students

4	Prof. C. B. Joshi, Asst. Prof., PVGCOE, Pune	Micro controller	31/03/2013	T.E. EandTC students
5	Prof. P. M. Nerkar, Assistant Prof. D.Y.Patil, Akurdi, Pune	Digital Technique	8/20/2012	S.E. EandTC students
6	Prof.HrishikeshKulkarni, SKN Sinhgad College Nahre,Pune	Micro Controller	09/09/2014	T.E. EandTC students
7	Prof. Kazi K. L, Asst. Prof., BMIT, Solapur	Microwave Engineering	11/02/2017	T.E. EandTC students

33. Teaching methods adopted to improve student learning:

- Use of Chalk and Board, Industrial visits, Guest lectures.
- Analogical explanations for confusing concepts.
- Use of multi-media projectors, Free and open educational resources
- Use of power point presentation, Working models, charts and demonstration experiments
- NPTEL lectures are made available to the students. In NPTEL system there is collection of Video Lectures for different subjects.
- MOODLE server is established for Learning Management System (LMS).
- Communication Lab is equipped with LCD projectors, DVD players, computers and interactive CDs that are used for the screening of documentaries and information visuals setup with an aim of equipping the learners of English with a good command of the language for communication purposes.
- The literature of professional society is made available to students as the entire faculties are members of professional bodies like ISTE, SAE, IE and IEEE etc.
- Two dedicated classrooms with LCD projector.
- DELNET facility is available in library.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities NSS (National Social Services).

- The college has the fine practice of raising funds and collecting other valuable materials to help the victims of natural calamities.(Donations at the time of natural calamities)
- Blood donation camp is organised under NSS every year.
- The NSS students took a initiative and visited different entrepreneur and requested them to go cashless with POI machines.

35. SWOC analysis of the department and Future plans

Strengths

- Excellent infrastructure and well equipped laboratories
- Effective Counselling and guidance to the students
- Opportunity to provide technical education to students of rural area
- Participation of students in co-curricular and extra-curricular activities
- A blend of traditional and modern educational culture

Weaknesses

- Scarcity of senior faculties
- R & D activities to be enhanced
- Lack of Electronics Industry hub in the vicinity of city

Opportunities

- Preparing student for GATE/GRE and government /public sector examination To get 100% placement
- Improving performance of students in competitive examination
- Strengthening industry connexion
- Maintaining and utilizing better contact with Alumni
- Collaborative project with industry and other Institute for better exposure

Constraints (Challenges)

- Lesser Placement opportunities due to less number of industries in core Electronics and Telecommunication sector
- Poor faculty retention

Future Plan

- To increase in number of ranker students
- To increase campus placements
- To introduce PG course in EandTC Engg.
- To achieve maximum success ratio in university exam
- Upgrading qualification of staff members

Evaluative Report of Department

1. Name of the department   : Mechanical Engineering Department.

2. Year of Establishment   : 2008

3. Names of Programs /Courses offered (UG,PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D.,etc.)

    a) UG   : Mechanical Engineering

    b) PG   : Mechanical (Manufacturing Process) Engg.

4. Names of Interdisciplinary courses and the departments/units involved:

Sr. No	Class	Interdisciplinary Course	Department Involved
1	SE - I	Engineering Mathematics III	General Science
2	SE - I	Environmental Studies	Civil Engineering
3	SE - II	Electrical Technology	Electronics and Telecomm. Engg
4	TE - I	Advance computer Programming using JAVA	Computer Engineering
5	SE - I	Computer Programming using C++	Computer Engineering.
6	TE - II	Advance computer Technique using METLAB	Electronics and Telecomm. Engineering

5. Annual/semester/choice based credit system (programwise): Semester System.

6. Participation of the department in the courses offered by other departments:

Sr. No	Class	Name of Course offered	Department Involved
1	FE - I	Basic Mechanical Engineering	General ScienceEngineering
2	FE - II	Engineering Graphics	General Science Engineering

7. Courses in collaboration with other universities, industries, foreign institutions : Nil

8. Details of courses/programs discontinued (ifany) with reasons   : Nil

9. Number of teaching posts:

Sr. No.	Post	Sanctioned	Filled
1.	Professors	2	01
2.	AssociateProfessors	4	01
3.	Asst.Professors	12	10

Facultyprofilewithname,qualification,designation,specialization,(D.Sc./D.Litt./Ph.D./M.Phil.etc.,)

Sr. No.	Name	Qualification	Designation	Specialization	No. of Yearsof Experience	Ph.D. Guided
1.	Dr. S.A. Patil	Ph.D	Principal	Mechanical Engineering	32	Ph.D. - 02 PG - 04
2.	Prof. V.V Potdar	M.E.	Professor and Vice Principal	Mechanical Engineering	31	PG - 12
3.	Prof. S.B. Gadwal	M.Tech.	Asso. Professor	Thermal Engineering	13	PG - 01
4.	Prof.G.R. Deshpande	M.Tech.	Asst. Professor	Machine Design	21	PG - 03
5.	Prof. (Miss).S. R. Shaikh	M.E.	Asst. Professor	Manufacturing Process Engg.	4	---
6.	Prof.J.S. Mujawar	M.E.	Asst. Professor	Manufacturing Process Engg.	6	---
7.	Prof.B.D. Andagi	M.Tech	Asst. Professor	CIM	3	---
8.	Prof.S.R. Gavhane	M.E.	Asst. Professor	Design Engineering	9	---
9.	Prof. (Miss).P.S. Karande	M.E.	Asst. Professor	Manufacturing Process Engg.	2	---
10.	Prof. M.M. Chakole	M.E.	Asst. Professor	Heat Power Engg	1	---
11.	Prof. S.V. Aravat	M.Tech.	Asst. Professor	CAD/CAM	1.5	---
12.	Prof.S.S. Inamdar	M.Tech.	Asst. Professor	Machine Design	1	---
13	Prof. R. S.Wale	M.E.	Asst. Professor	Thermal Engineering	1	--

11.   Listofseniorvisitingfaculty:

Sr. No.	Name of Faculty	Academic Year	Semester	Subject
1.	Prof.Mrs. S.P. Katke	2015-16	S.E.	Electrical and Electronics Technology
2.	Er. S.A. Jeurkar	2014-15	T.E.	Material Handling System

12.   Percentage of lectures delivered and practical classes handled (programmewise) by temporary faculty : Nil

13.   Student-Teacher Ratio (programwise)   : 18: 1

14.Number (technical) and administrative staff; sanctioned and filled:

Sr. No.	Post	Sanctioned	Filled
1.	Academicsupportstaff(technical)	08	08
2.	Administrativestaff	02	02

15.   Qualifications of teachingf aculty with DSc/D.Litt/Ph.D/MPhil/PG:

Sr. No.	Degree	No of Faculty
01	Ph.D	01
02	Ph.D (Pursuing)	03
03	PG	09
04	Pursuing PG	Nil

16. Number of Faculty with ongoing projects from National / International funding agencies and grants received:- Nil

17.   Departmental projects funded by DST-FIST;UGC,DBT,ICSSR, etc .and total grants received

Sr. No.	Acadenic Year	Department	Name of project	Grant / sponsorship received in Rs.
1	2014-2015	Mechanical Engineering	Study and Analysis of Plate Heat Exchange	Aakash Fabrication/ 50000
2			Low Cost High Efficient	Indian Bio Diesel

3			Fourway Hacksaw Machine	Navin Enterproses/ 16000
			vertical Axis wind Mill	Corporation/ 51000
4			Performace Characteristics of VCR Engine	Indian Bio Diesel Corporation/ 23000
5	2013-2014		Rose De Leafer Machine	Ramchandra Flowers / 10000
6			Bottel Indexing and Filling	Thermax Ltd/20000
7			Planetory Mixer with Strainer Arrangements	Shri. Vitthal Sakhar Karkhana Ltd/ 15000
8	2012-2013		Lay out Design of Machine shop KFIL	KFIL Ltd., Solapur /30000
9			Energy Audit in Sugar Industry	Vitthal Corporation Ltd /10000

18.   Research Centre/facility recognized by the University:Nil (Applied for Research Centre)

19.   Publications:

   a)Publicationperfaculty (Total 147 Publications)

Sr. No.	Faculty Name	Publications			
		National Conference	International Conference	National Journals	International Journals
1	*Dr.S.P.Kallurkar	01	---	---	10
2	Dr. S.A. Patil	01	03	---	10
3	Dr. S R. Dulange	03	01	02	16
4	Prof. V.V Potdar	09	---	02	16
5	Prof. S.B. Gadwal	05	01	---	04
6	*Prof. R.R. Anyapanawar	04	---	---	04
7	*Prof.R.M. Patil	04	---	---	04
8	Prof.G.R.Deshpande	05	---	---	06

9	Prof.(Mrs.) S. R. Shaikh	---	---	02	01
10	Prof.J.S.Mujawar	04	---	---	02
11	Prof. S.R. Gavhane	03	---	02	02
12	Prof. (Miss) .P.S. Karande	04	---	---	02
13	Prof.M.M.Chakole	02	01	--	04
14	Prof. B.D. Andagi	02	---	---	01
15	*Prof. S.K. Kusekar	01	02	---	01

20. Areasofconsultancyandincomegenerated

Yes (Metallurgy Material Testing)

   Total Income generated   : Rs. 8250/-

21. Facultyasmembersin

a)Nationalcommittees   : Nil

b)InternationalCommittees   : Nil

c)EditorialBoards   :Nil

22. Studentprojects:

a)Percentageofstudentswhohavedonein-houseprojectsincluding

   interdepartmental/program

Sr. No.	Academic Year	Percentage of students who have done in-house projects
1.	2012-13	85
2.	2013-14	85
3.	2014-15	80
4.	2015-16	85

  c) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/otheragencies

Sr. No.	Academic Year	Percentage of students placed for projects in organization soutside the institution
1	2012-13	15
2	2013-14	15
3	2014-15	20
4	2015-16	15

23. Awards/Recognitions received by faculty and students

Sr. No.	Name of Faculty / Students	Award / Recognition	Award / Recognition Issued By
1	Dr. S.P. Kallurkar	Best Principal	International Institute of Education and Management, New Delhi
2	Dr. S.A. Patil	Best Principal	Lions Club, Solapur
3	Prof. V.V. Potdar	Best Teacher (Dronacharya)	Solapur University Student Association (SUSA)
4	Miss. Darshana Annadate, Miss. Shradha Bhogade	Winner	Dipex 2K17, State level Project Competition
5	Mr. Jayant Pansare	Runner	Sare Gama Pa - 12, Zee Marathi

24. List of eminent academicians and scientists/visitors to the department

Sr. No.	Eminent scientist- Industrialist, Organization	Topic	Date
1	Prof. Vivekananda D., Visiting Faculty, Dept. of Communication System, IIT (Mumbai and Chennai).	National Conference on "Innovative trends in Engineering and Technology", NITET - 2017	15/03/2017
2	Dr. Mirage A.A., PVPIT, Budgaonand Mrs. Mirage A.A., WCE, Sangli	Advanced Programming using MATLAB	27/01/2017 to 29/01/2017
3	Mr. Vinay Marje, Technical Head, Msc Software, Pune	"Industry Institute Interaction".	10/03/2017
4	Dr. B. S. Gawali Professor, WCE, Sangli	Cryogenics	06/08/2016
5	Mr. Nitin Kale and Mr Anil Honrao NYEDC, Pune	Entrepreneurship	22/09/2016 to 23/09/2016
6	Dr. A.A. Utpat, Fabtech,	Teaching methodology for Plastic	03/02/2016

	SangolaandEr. Mr. S.A. Jeurkar, Sai Enterprices, Solapur	Engineering	
7	Prof. Mrs Deshpande S.R.Principal G.P. Solapur,Dr. R.S. Mente, Solapur University, Solapur	National Conference on "Innovative trends in Engineering and Technology"	11/03/2016and 12/03/2016
8	Dr. Y.S. Rao, Sardar Patel Institute of Technology, Mumbai, and Prof. Anand Mane	PLC andRobotics	23/01/2016 and 24/03/2016
9	Mr. Dhanajay Suryavanshi Swami Vivekananda Kendra, Solapur.	"Health and Yoga"	24/09/2016
10	Mr. Nitin Kale, NYEDC, Pune	Entrepreneurship	28/09/2015 to 30/09/2015
11	Mr. Ritesh Khaire and Mr. Vijay Bamanalli, "Shree OM TMT bars" Solapur	Manufacturing of steel bars	22/02/2015
12	Dr. V.A. Gundale, Director, Vira Pumps, Kolhapur.	CFD	12/10/2015
13	Er. Chetan Loni, Alacrity constructions Pvt. Ltd.	"Selection criterion of Civil MNC companies"	14/08/2015
14	Mr. Bharat Chougule, Director King college of Technolgy, Nemakkal, T.N.	Faculty Development program on "Neuro- Linguistic programming (NLP)"	25/06/2014
15	Mr. A.V. Deshmukh, Eminent foundry operations consultant.	Recent Methods in Foundry	04/09/2014
16	Mr Vijay Bunkar, Trainner, Indo-German Tool Room, Pune.	CAD/CAM	28/02/2012
17	Dr. S. M. Khot, Head of Department, Mechanical, Fr. Conceicao Rodrigues Institute of Technology, Vashi	An Art of Writing a Technical Paper, its Publications and Emotional Engineering	06/09/2010
18	Prof. S. V. Swaminathan	An Art of Writing a Technical Paper, its Publications and Emotional Engineering	06/09/2010

25. Seminars/Conferences/Workshopsorganized and thesourceoffunding

a)National :

Sr. No.	Academic Year	Title	Resource person	Audience
1	**2010-11**	An Art of Writing a Technical Paper, its Publications and Emotional Engineering	Dr. S. M. Khot, Prof., Head of Department, Mechanical, Fr. C. R. I. of T., Vashi and Prof. S. V. Swaminathan	**Staff**
2	**2011-2012**	Workshop on "PRO – E andUnigraphics"	Indo – German Tool Room Pune	**Students**

3		Workshop on "Research approach in Graph Theory"	Dr. M.H.Muddebihal, Gulbarga University. Dr. M.S. Biradar, Govt. College, Basawakalyan.	**Open to all**
4	**2013-2014**	Workshop on "Introduction to AUTOCAD"	Mr.J.S.Mujawar Mr.R.M. Patil, AGPIT.	**Students**
5		Robotryst 2015 National Level workshop	Robosapiens, Delhi	**Students**
6		Recent Trends in Foundry	Mr. A.V. Deshmukh	**Students**
7		Faculty Development program on "Neuro- Linguistic programming (NLP)"	Mr. Bharat Chougule, Director King college of Technolgy, Nemakkal, T.N.	**Staff**
8	**2014-2015**	Workshop on "Automobile Mechanics and IC Engine Design"	EI Systems, Bangalore	**Students**
9		Workshop on "Basics of Surface Modeling Using CATIA V5"	Miss S.R. Shaikh and Miss. P.S. Karande, A.G.P.I.T., Solapur	**Students**
10		Course on CATIA	Mr. SumitKarde, Consultant, Pune	**Students**
11		National Conference on "Innovative trends in Engineering and Technology"	Prof. Mrs Deshpande S.R.Principal G.P. Solapur,Dr. R.S. Mente, Solapur University, Solapur	**Open to all**
12		Workshop on CFD	Dr. V.A. Gundale, Director, Vira Pumps, Kolhapur.	**Students**
13		Faculty Development program on "PLC and Robotics"	Dr. Y.S. Rao andProf AnandMane, Sardar Patel Institute of Technology, Mumbai	**Staff andStudents**
14	**2015-2016**	Workshop on "Teaching methodology for Plastic Engineering."	Dr. A.A. Utpat, Fabtech, Sangolaand Er. Mr. S.A. Jeurkar, Sai Enterprices, Solapur	**Faculty Solapur University**
15		Wworkshop on "Surface Modeling Using CATIA V5"	Mr.J.S.Mujawar Miss. P.S.Karande, A.G.P.I.T., Solapur	**Students**
16		Workshop on "Skill Development training"	Lokmat, Solapur	**Students**
17		Workshop on "Various open source software [FOSS]"	Mr. AmeyDoshi, A.G.P.I.T., Solapur	**Staff andStudents**
18		Workshop on "Basics of CATIA V5"	Miss. P.S.Karande , Mr.J.S.Mujawar, A.G.P.I.T., Solapur	**Students**
19		Workshop on "Entrepreneurship Development Program"	Mr. Nitin Kale, NYDC, Pune	**Students**

20		Workshop on "Advance Welding Technologies"	Mr. VineetMarathe, Vinarc Engineers/ Marathe Welding Cell, Pune and Dr. D.G. Thakur, Defence Institute of Advanced Technology, Pune	**Students**
21		Workshop on "Scope of Mechanical Engineers in Software Industries"	Mr. Mahesh Talange, TCS, Bangalore	**Students**
22	**2016-2017**	Workshop on "Advanced Programming using Matlab"	Dr. A.A. Mirje, PVPIT, Budgaonand Mrs. A.A. Mirje, WCE, Sangli	**Staff and Students**
23		Workshop on "Surface Modeling Using CATIA V5"	Mr.J.S.Mujawar Miss. P.S.Karande, A.G.P.I.T., Solapur	**Students**
24		National Conference on "Innovative trends in Engineering and Technology" NITET - 2017	Prof. Vivekananda D., Visiting Faculty, Dept. of Communication System, IIT (Mumbai and Chennai). Dr. Asha V. Thalange, W.I.T., Solapur.	**Open to all**

26.   Studentprofileprogram/coursewise:

Academic Year	Applicationsreceived		Selected		Enrolled				PassPercentage
					*M		*F		
	FE	DSE	FE	DSE	FE	DSE	FE	DSE	
2012-13	69	62	69	62	68	61	01	01	98.21
2013-14	17	76	17	76	15	75	02	01	90.10
2014-15	14	64	14	64	13	59	01	05	75
2015-16	15	19	15	19	13	14	02	05	93.59
2016-17	07	59	07	59	07	55	00	04	Result Awaited

*M=Male*F=Female

27.   DiversityofStudents

Academic Year	%ofstudentsfromthesame state	%ofstudentsfromotherStates	%ofstudentsfromabroad
2012-13	100	----	----

2013-14	100	----	----
2014-15	100	----	----
2015-16	100	----	----
2016-17	90	10	----

28.

    HowmanystudentshaveclearednationalandstatecompetitiveexaminationssuchasNET ,SLET,GATE,Civilservices,Defenseservices,etc.:

One student got qualified in GATE 2014

29. Studentprogression

Year	Campus Selection	Off Campus	Higher Study	Entrepreneur	Total strength
2012-13	16	30	05	NIL	56
2013-14	15	35	01	NIL	91
2014-15	12	42	05	NIL	98
2015-16	05	08	04	04	79

30. DetailsofInfrastructuralfacilities

    e) Library   : Yes (Departmental Library)

Sr. No.	Title	Details		
		Departmental Library	Institute Level Library	
			UG	PG
01	No. of Titles	120	2804	90
02	No of Volumes	135	20094	40
03	UG/ PG Project reports	2012 To 2016		
04	No of Printed Journals (National/International)	---	National	International
			37	---
05	No of E-Journals (National/International)	---	D-elnet (574)	

    f) InternetfacilitiesforStaffandStudents: Yes, 100 Mbps with Wifi.

    c) Class rooms with ICT facility   : 2 Rooms with total 268.65 sq.mtr area

    d) Laboratories   : 19 Laboratories with total 2564.70 sq.mtr area

    e) Departmental Office   : Yes with 92.75sq. mtr. area

31. Number of students receiving financial assistance from Institute, university, government or other agencies

Financial Assistance from government

- Students of backward class such as SC, ST, VJ, NT, SBC can apply for scholarship through which student get 100% tuition fee reimbursement.
- Students of OBC get 50% tuition fees reimbursement.
- Students from open, but whose guardians annual income is less than 1 lakh will get 50% tuition fee reimbursement.
- 5% of intake seats are filled under TFWS (Tuition Fees Waivers Scheme) on merit basis through which 100% tuition fee is exempted.
- PTC/STC scholarship is given to the student whose guardian is Primary/Secondary school teacher.
- Scholarship for minority class is also available.

Financial Assistance from College:

- For economically weak student college provide fee concession in tuition fee/ hostel fee/mess charge.

32. Details on student enrichment programmes (speciallectures/ workshops/ seminar) with external experts

Sr. No.	Name of Resource person	Area of specialization	Year of event	Participants
1.	Mr. Gudur S P, Thermax Ltd, Pune	Industrial approach and how to built industry oriented personality?	2016	T.E, B.E
2.	Mr. Girish Dulange Manager at Siemens - SEMENS Ltd	Career Opportunities for Mechanical Engineers in Middle East "		BE Students
3.	Mr.Ramjan Pathan (Lightening Drone)	Computational Fluid Dynamics basics		SE Students
4.	Mr.Ramjan Pathan (Lightening Drone)	Rocket launcher		SE Students
5.	Asian Academy of Professional Training	Skill Development Program		T.E, B.E
6.	TMC Academy, Mumbai	CRT Program	Every Year	TE and BE

7.	Professional Trainer	Communication Skills		TE and BE
8.	Mr. Deshmukh A.V	3D Printing		T.E, B.E
9.	Mr. Ameya Khambete and Mr.Wasim Khan, Pune	3-D Printing Technology (Additive Manufacturing)	2014	T.E, B.E
10.	Mr. Kulkarni R.N	Indo-Germen tool design	2012	B.E
11.	Prof. U.A. Ankulge	Vibration		S.E
12.	Dr. K.H. Jatkar	Element Characterization		B.E
13.	Prof. Avinash Pede	Isometric scale template	2011	F.E
14.	Prof. P. R. Kulkarni	Variable compression ignition		B.E
15.	Prof. D.V. Joshi	LPP application		B.E
16.	Prof. Gokhale	Applied mechanics		F.E
17.	Prof. Mitragotri P.P	Trunnion fixture design	2010	S.E,T.E
18.	Prof. S.R. Tandale	C programming(Aptitude)		S.E

33.   Teachingmethodsadoptedtoimprovestudentlearning

- Use of Chalk and talk, Industrial visits, Guest lectures.

- Use of multi-media projectors, Free and open educational resources

- Use of power point presentation, Working models, charts and demonstration experiments

- e – Learning material is kept in department and in digital library.

- NPTEL lectures are made available to the students. In NPTEL system there is collection of Video Lectures for different subjects.

- The entire campus is connected with hi speed Wi-Fi facility.

- MOODLE server is established for Learning Management System (LMS).

- Communication Lab is equipped with LCD projectors, DVD players, computers and interactive CDs that are used for the screening of documentaries and information visuals setup with an aim of equipping the learners of English with a good command of the language for communication purposes.

- The literature of professional society is made available to students as the entire faculties are members of professional bodies like ISTE, SAE, IE and IIIE etc.

- Two dedicated classrooms with LCD projector.

- Language laboratory for communication skill development for higher classes also.

34. ParticipationinInstitutionalSocialResponsibility(ISR)andExtensionactivities NSS (National Social Services).

- Tree Plantation.

- Cleaning Awareness campaign.

- Active participation in NSS activities.

- Through its various outreach program, it has brought tremendous improvement in the lives of disadvantaged people of the villages adopted from time to time, institutions like Orphanage etc.(Donations for orphans)

- The Institute has the fine practice of raising funds and collecting other valuable materials to help the victims of natural calamities.(Donations at the time of natural calamities)

- The beneficiaries are their domestic helps, old and sick people in the neighbor-hood, accident victims and poor patients in hospitals needing blood.(Blood donation camps details)

- The Institute chairman has a number of awards and help to the society. Besides they have been honored by local, regional bodies.

35. SWOC analysis of the department and Future plans

Strengths:

- Qualified , experienced and dedicated staff

- Well equipped and furnished laboratories

- Excellent academics

- Many staff pursing their PhD by research in recognized universities.

- Running P.G. courses in Mechanical Engineering Dept.

Weakness:

- Less no. of High merit students are preferring our Institute as first priority

- Less no. of PhD completed faculty members.

- Yet, no accreditation

- Research facilities are not available

Opportunities:

- Consultancy

- Scope of admission from rural area

- MOU"S with MNC"s , IIT and NIT"S

- Getting research funding from different resources

Challenges:

- Challenge of maintaining best quality

- Many Engineering Institutes nearby Institute

- Decreasing trends in number of admissions

- Global recession

Future Plans:

- To modernize all laboratories considering the latest requirement and development in thrust areas.

- Qualification improvement of faculties.

- Increase industry Institute interaction.

- To inculcate awareness of self learning in students.

- To provide soft skill training to the students and tie-ups with industries.

- To provide competitive exams coaching through experienced faculties.

- To be a recognized competent department at state level.

- To establish RandD and consultancy centre.

- To achieve 100% results and placements.

- To achieve maximum success ratio in competitive examinations.

Shanti Education Society's

A. G. PATIL INSTITUTE OF TECHNOLOGY

Approved by A.I.C.T.E., New Delhi • Affiliated to Solapur University, Solapur

ISO 9001: 2008 CERTIFIED (LMS-DAC)
18/2/2 A, Pratap Nagar, Opp. SRP Camp, Vijapur Road, Solapur - 413 008 (Maharashtra)
Ph.: 0217-2342499, 6452989, Fax : 0217-2342221 • E-mail : contact@agpit.edu.in • Web : www.agpit.edu.in

Date :

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 thereof has been outsourced.

I am aware that the peer team will validate the information provided in the SSR during the peer team visit.

Signature of the head of the institution

Principal
A.G. Patil Institute of Technology
Solapur

Place : Solapur

Date:- 29/03/2017

ANNEXURE

i. **2(f) letter of UGC**

ii. **Letter of consent for U. G. Program**

iii. **Letter of consent for P. G. Program**

सोलापूर विद्यापीठ
म.वि.वि.मं. कार्यालय
सोलापूर पुणे महामार्ग, केगांव,
सोलापूर - ४१३ २५५ (महाराष्ट्र)
ईपीएबीक्स-०२१७-२७४४७६०/६१/६३/६६/७१/७२/७३/७४/७८/७९
फॅक्स नं.- ०२१७-२७४४७७०
संकेतस्थळ http://su.digitaluniversity.ac/www.sus.ac.in
ईमेल : bcud@sus.ac.in
bcudugc@sus.ac.in

सोलापूर विद्यापीठ
॥ विद्यया संपन्नता ॥
NAAC Accreditied-२०१५
B Grade (CGPA २.६२)

SOLAPUR UNIVERSITY
B.C.U.D. Office
Solapur Pune National Highway, Kegaon
Solapur - 413 255 (Maharashtra
EPABX: 0217-2744760/61/63/66/71/72/73/74/78/79
Fax No.0217-2744770
website: http://su.digitaluniversity.ac/www.sus.ac.in
Email : bcud@sus.ac.in
bcudugc@sus.ac.in

Ref.No. SUS/BCUD/UGC/2016-17/ 9204   Date : 28 SEP 2016

To,
The Secretary,
University Grants Commissions,
Bahadurshah Zafar Marg,
New Delhi- 110 002.

Sub :- Submission of Proposal for the inclusion of College Under Section 2(f)
of the UGC Act, 1956.
Ref :- Letter No. AGPIT/2F_Affi/2016-17/3297 dt. 22/08/2016.

Respected Sir,

With reference to the subject mentioned above, I am sending herewith a proposal and relevant documents received from the Principal, **A. G. Patil Institute of Technology, Solapur (Maharashtra)** for **Inclusion of College Under Section 2(f) of the UGC Act, 1956.** In this respect the documents as listed below are enclosed alongwith the proposal.

Documents 2 f Proposals

1   The Indemnity Bond Executed on the Specimen Prescribed by the Commission for a Registered Society as the Management of Trust Running the College.

2   An Attested Copy of the Memorandum of Association of the Society/Trust Deed Running the College.

3   An Attested Copy of the Certificate of the Registration of the Society or Trust Running the College.

4   By Laws.

5   Registration of the Society As Per Society Act 1860.

6   The Attested Copy Permission of All India Council for Technical Education to Start the Institute of Engg. & Technology.

7   The Attested Copy of the First Affiliation Letter of the College to Solapur University, Solapur.

8   The Attested Copy of Academic Year 2016-17 Affiliation Letter of the College to Solapur University, Solapur.

Inword No. 357

I request you to consider the proposal favorably and convey the commission's decision regarding Inclusion of College Under Section 2(f) of the UGC Act,1956 at the earliest.

Thanking you,

Yours faithfully,

(Prin. R. Y. Patil)
DIRECTOR
Board of College & University Development

Encl : As above.
Copy to: The Principal, A. G. Patil Institute of Technology, Solapur (Maharashtra).

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सोलापूर विद्यापीठ

सोलापूर-पुणे राष्ट्रीय महामार्ग, केगांव
सोलापूर - ४१३ २५५ (महाराष्ट्र)
Website : http://su.digitaluniversity.ac
EPABX No. : +91-0217-2744771, 72,73,74,78,79

SOLAPUR UNIVERSITY

Solapur-Pune National Highway, Kegaon
SOLAPUR - 413 255 (Maharashtra)
Fax : +91-0217-2744770

Date : 3 0 MAY 2015

Ref. No. : SUS /
जा.क्र. सोविसो/मविविमं/संलग्नता/ १७५२   दिनांक:

┌───┐
│   संलग्निकरणाचे नुतनीकरण मान्यता पत्र   │
└───┘

विद्यापरिषद ठराव क्र. ११३(२७)
दि.२३/०४/२०१५.

प्रति,
मा.प्राचार्य,
ए. जी. पाटील इन्स्टिटयुट ऑफ टेक्नॉलॉजी,
१८(२ अे २) प्रतापनगर, सोरेगांव. ता.उ.सोलापूर, जि.सोलापूर. ४१३ ००४

विषय :- शै.वर्ष २०१५-१६ पासून अभियांत्रिकी (Mech, CSE, E&TC, Civil) भाग १ ते ४ या अभ्यासक्रमाच्या संलग्निकरणाच्या नुतनीकरणाबावत.

संदर्भ :- १. दि.२३/०२/२०१५ रोजी प्राप्त झालेला स्थानिक चौकशी समितीचा अहवाल.
२. या कार्यालयाचे पत्र क्र. सोविसो/मविविमं/संलग्नता/१२२०२, दि.०७/०३/२०१५.
३. आपला अटीपूर्तता अहवाल जा.क्र.AGPIT/Affi_Condn_All Branch/2014-15/2163, दि.१५/०४/२०१५.

महोदय,
उपरोक्त विषयास अनुसरुन आपणास कळविण्यात येते की, आपल्या महाविद्यालयाच्या शै.वर्ष २०१५-१६ पासून अभियांत्रिकी (Mech, CSE,E&TC,Civil) भाग १ ते ४ या अभ्यासक्रमाच्या संलग्निकरणाच्या नुतनीकरणासंदर्भात नियुक्त केलेल्या स्थानिक चौकशी समितीने दिलेला अहवाल, त्याअनुषंगाने आपण सादर केलेला अटीपूर्तता अहवाल व विद्यापरिषद ठराव क्र.११३(२७), दि.२३/०४/२०१५ अन्वये खालील नमूद अटीपूर्ततेच्या अधिन राहून मान्यता दिलेली आहे.

अ.क्र.	अभ्यासक्रम	संलग्निकरणाचा प्रकार	संलग्निकरणाच्या मान्यतेची मुदत
१	अभियांत्रिकी (Mech, CSE, E&TC, Civil) भाग १ ते ४	संलग्निकरणाचे नुतनीकरण	शै. वर्ष २०१५-१६ व २०१६-१७ (दोन वर्ष)

• अटी:
१) मंजूर कार्यभारानुसार रिक्त शिक्षकांची पदे विद्यापीठ निवड समितीमार्फत त्वरीत भरावीत.

उपरोक्त अटींची पूर्णपणे पूर्तता करुन अटीपूर्तता अहवाल आवश्यक त्या कागदपत्रासह लवकरात लवकर या कार्यालयास सादर करावा. कोणत्याही परिस्थितीत ३१ जुलै, २०१५ पर्यंत उपरोक्त अटींची पूर्णप्रणे पूर्तता न केल्यास आपल्या महाविद्यालयाविरुध्द दंडात्मक कारवाई करण्यात येईल, याची नोंद घेण्यात यावी.

वरील संलग्निकरणाबाबत प्रत्येक अभ्यासक्रमासाठी/विषयासाठी जास्तीत जास्त किती विद्यार्थ्यांना प्रवेश देता येईल याबाबत विद्यापीठाने घातलेली मर्यादा आणि इतर अटींचे महाविद्यालयांकडून पालन करण्यात यावे.

आपला विश्वासू,

[संचालक]
महाविद्यालय व विद्यापीठ विकास मंडळ

प्रत:-
१. मा. संचालक तंत्र शिक्षण संचालनालय, महाराष्ट्र राज्य, मुंबई.
२. मा.सहसंचालक, तंत्र शिक्षण विभागीय कार्यालय, महाराष्ट्र राज्य, पुणे.
३. परीक्षा विभाग, पात्रता विभाग व मा.समन्वयक एम.के.सी.एल सोविसो.

7

(52)

SOLAPUR UNIVERSITY
Solapur-Pune National Highway, Kegaon,
Solapur - 413 255 (Maharashtra)
Website : http://su.digitaluniversity.ac
EPABX No. +91-0217-2744771, 72, 73, 74, 78, 79

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Solapur Pune National Highway, Kegaon,
Solapur - 413 255 (Maharashtra)
Fax : +91-0217-2744770

Ref.No.: SUS/
O.No. रोविसो/मविविमं/संलग्नता/1752

Date : 30 MAY 2015.
दिनांक

Letter of Consent to Renewal of Affiliation

Knowledge Council Resolution No. 113(27)
Date : 23/04/2015.

To
Hon. Principal,
A.G. Patil Institute of Technology,
18(2A2) Pratapnagar, Soregaon, Tq.N.Solapur, Dist. Solapur -413004.

Subject :- Regarding renewal of affiliation of Courses of Engineering (Mech., CSE, E&TC, Civil) Part 1 to 4 from Education year 2015-16.

Reference:- 1) Receipt of Report of Local Enquiry Committee dated 23/02/2015.

2) Letter of this Office No. सोविसो/मविविमं/संलग्नता/1220, dated 07/03/2015.

3) Your Report regarding Compliance of conditions O.No. AGPIT/Affi_All Branch/2014+15/2163, dated 15/04/2015.

Sir,

With reference to the subject above referred, it is informed to you that, as per the Report of the Local Enquiry Committee assigned for the purpose of renewal of affiliation of your College Courses of Engineering (Mech, CSE, E&TC, Civil) Part 1 to 4 from the Education Year 2015-16, Compliance of conditions Report submitted by you in that respect and Resolution of Education Council No. 113(27), dated 23/04/2015 the approval is given on the basis of conditions mentioned below.

Sr.No.	Course	Type of affiliation	Period for which affiliation is sanctioned
1.	Engineering. (Mech., CSE, E&TC, Civil) Part 1 to 4	Renewal of affiliation.	Educational Year 2015-16 and 2016-17 (Two years)
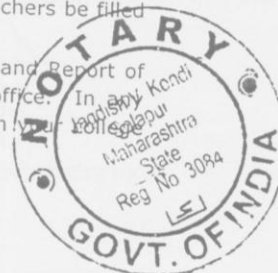
Conditions:-

1) As per the sanctioned work load, the vacant posts of Teachers be filled immediately through University Selection Committee.

The compliance of the said condition be made immediately and Report of Copliance of considiton along with necessary documents filed with this office. In any case, if the above condition is not complied with uptill 31st July 2015 then your College would be fined, please take note of the same.

Translated from Marathi
In to English by me

Syed A.Jaleed Husain
B.Com.LLB Advocate
5,Railway Line, Solapur
Mob.9822151915

VERIFIED

Jagadish V. kondi

(56)

सोलापूर विद्यापीठ
लापूर-पुणे राष्ट्रीय महामार्ग, केगांव
लापूर – ४१३ २५५ (महाराष्ट्र)
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ef. No. : SUS /
जा.क्र. सोविसो/मविविमं/संलग्नता/ 1753

Date : 3 0 MAY 2015
दिनांकः

संलग्निकरणाचे नुतनीकरण मान्यता पत्र

विद्यापरिषद ठराव क्र. १५
दि.२३/०४/२०१५.

प्रति,
मा.प्राचार्य,
ए. जी. पाटील इन्सिटटयुट ऑफ टेक्नॉलॉजी,
१८(२ अे २) प्रतापनगर, सोरेगांव. ता.उ.सोलापूर, जि.सोलापूर. ४१३ ००४

विषय :- शै.वर्ष २०१५-१६ पासून एम.ई.(Manufacturing Process Engg.) भाग १ व २ या अभ्यासक्रमाच्या
संलग्निकरणाच्या नुतनीकरणाबाबत.
संदर्भ :- दि.०२/०३/२०१५ रोजी प्राप्त झालेला स्थानिक चौकशी समितीचा अहवाल.

महोदय,
उपरोक्त विषयास अनुसरुन आपणास कळविण्यात येते की, आपल्या महाविद्यालयाच्या शै.वर्ष २०१५-१६ पासून
एम.ई.(Manufacturing Process Engg.) भाग १ व २ या अभ्यासक्रमाच्या संलग्निकरणाच्या नुतनीकरणासंदर्भात नियुक्त केलेल्या
स्थानिक चौकशी समितीने दिलेला अहवाल व विद्यापरिषद ठराव क्र.१५, दि.२३/०४/२०१५ अन्वये खालील खालीलप्रमाणे मान्यता दिलेली
आहे.

अ.क्र.	अभ्यासक्रम	संलग्निकरणाचा प्रकार	संलग्निकरणाच्या मान्यतेची मुदत
१	एम.ई. (Manufacturing Process Engg.) भाग १ व २	संलग्निकरणाचे नुतनीकरण	शै. वर्ष २०१५-१६ व २०१६-१७ (दोन वर्ष)

वरील संलग्निकरणाबाबत प्रत्येक अभ्यासक्रमासाठी/विषयांसाठी जास्तीत जास्त किती विद्यार्थ्यांना प्रवेश देता येईल याबाबत
विद्यापीठाने घातलेली मर्यादा आणि इतर अटींचे महाविद्यालयांकडून पालन करण्यात यावे.

आपला विश्वासु,

|| विद्याया संपन्नता ||

संचालक
महाविद्यालय व विद्यापीठ विकास मंडळ

प्रत:-
१. मा. संचालक तंत्र शिक्षण संचालनालय, महाराष्ट्र राज्य, मुंबई.
२. मा.सहसंचालक, तंत्र शिक्षण विभागीय कार्यालय, महाराष्ट्र राज्य, पुणे.
३. परीक्षा विभाग, पी.जी.प्रवेश विभाग, पात्रता विभाग व मा.समन्वयक एम.के.सी.एल सोविसो.

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Ref.No.: SUS/
O.No. सोविसो/मविविमं/संलग्नता/1753

Date : 30 MAY 2015.
दिनांक

Letter of Consent to Renewal of Affiliation

Knowledge Council Resolution No. 15.
Date : 23/04/2015.

To
Hon. Principal,
A.G. Patil Institute of Technology,
18(2A2) Pratapnagar, Soregaon, Tq.N.Solapur, Dist. Solapur -413004.

Subject :- Regarding renewal of affiliation of Course M.E. (Manufacturing Process Engg.) Part 1 and 2 from Education year 2015-16.

Reference:- Receipt of Report of Local Enquiry Committee dated 02/06/2015.

Sir,

With reference to the subject above referred, it is informed to you that, as per the Report of the Local Enquiry Committee assigned for the purpose of affiliation of your College's Course M.E. (Manufacturing Process Engg.) Part 1 and 2 for the Education Year 2015-16 and Education Countil Resolution No. 15, dated 23/04/2015 the approval is given as mentioned below.

Sr.No.	Course	Type of affiliation	Period for which affiliation is sanctioned
1.	M.E. (Manufacturing Process Engg.) Part 1 and 2	Renewal of affiliation.	Educational Year 2015-16 and 2016-17

The College should follow the restrictions imposed by University that how many students can be given admission in respect of each Courtse /Subject and other conditions imposed by the University.

Yours faithfully,

sd/-
(Director)
College & University Development Board

To
1. Director, Directorate of Technical Education, Maharashtra State, Mumbai.
2. The Joint Director, Technical Education Divisional Office, Maharashtra State, Pune.
3. Examination Department, P.G. Entrance Department, Qualification Department and Co-ordinator, M.K.C.L. SUS.

Translated from Marathi
In to English by me

Syed A.Jalcod Husain
3.Com.LLB. Advocate
15,Railway Line, Solapur
Mob.9823451915

VERIFIED

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Jagadish V. Kondi
Notary, Solapur. (Maha. State)
(Government Of India)