



Sinhgad Institutes

SINHGAD TECHNICAL EDUCATION SOCIETY'S

SKN SINHGAD INSTITUTE OF TECHNOLOGY & SCIENCE, LONAVALA

Annual Quality Assurance Report AQAR (First) AY 2017-18

Submitted

To

**National Assessment and Accreditation Council
Bengaluru**



STES's

SKN SINHGAD INSTITUTE OF TECHNOLOGY AND SCIENCE

Gat No. 309, Off Pune-Mumbai Express Way,

Kusgaon (Bk.), Lonavala, Dist Pune, Maharashtra.410401

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Annual Quality Assurance Report (First) Of Academic year 2017-18

Submitted to



**National Assessment and Accreditation Council
Bengaluru**

By



Sinhgad Institutes

**Sinhgad Technical Education Society's
SKN SINHGAD INSTITUTE OF TECHNOLOGY AND SCIENCE**

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VISION

"उत्तमपुरुषान् उत्तमाभियंतृन् निर्मातुं कटीबध्दाः वयम्"

We are committed to produce not only good engineers but good human beings, also.

MISSION

Holistic development of student and teacher is what we believe in and work for. We strive to achieve this by imbibing a unique value system, transparent work culture, excellent academic and physical environment conducive to learning, creativity and technology transfer. Our mandate is to generate, preserve and share knowledge for developing a vibrant Society.

OBJECTIVES

- To build a personality with technical and non-technical skills, which are globally at par.
- To implement effective teaching-learning process (T-L-P) so as to achieve excellent academic performance in the university examination.
- To provide the opportunity to the students to participate in various co-curricular and extra-curricular activities for their overall development.
- To upgrade the staff qualification.
- To make the students employable by introducing various skill development programs like Student Training Programs (STPs) and Value Addition Programs (VAPs).
- To create top notch entrepreneurs, through Entrepreneurship Development Cell (EDC).
- To make the students competitive with practical oriented problem solving techniques through Project Based Learning (PBL) & Lab Innovations (LI).
- To introduce various Faculty Development Programmes (FDPs) like Train the Trainer (TTT), Teacher Advancement Programme (TAP), etc.
- To inculcate the research culture among students and faculties.



Sinhgad Institutes

SINHGAD TECHNICAL EDUCATION SOCIETY'S®

SKN SINHGAD INSTITUTE OF TECHNOLOGY & SCIENCE

(Affiliated to Savitribai Phule Pune University & Approved by AICTE)

Gut No 309, Kusgaon (Budruk), Off. Mumbai - Pune Expressway, Lonavala, Dist. Pune - 410401.

PROF. M. N. NAVALE

M.E. (Elect.) MIE, MBA

FOUNDER PRESIDENT

DR. (MRS.) SUNANDA M. NAVALE

B.A., M.P.M., Ph.D.

FOUNDER SECRETARY

DR. M.S. ROHOKALE

M.Tech., M.B.A., Ph.D.

PRINCIPAL

To, Ref. No: SKNSITS/2018-19/4795

Date: 27/09/2018

The Director,

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

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

Bengaluru-560072 India

Capuaqar@gmail.com

Sub: Submission of first AQAR 2017-18

Res/Sir,

Greetings from SKN Sinhgad Institute of Technology & Science Lonavala ,
Please Find enclosed herewith , our Institute first annual Quality Assurance Report for the
academic year Oct 2017 to Sept 2018 Our Track ID is MHCOGN27400. We are accredited
with 'A' Grade during the NAAC peer visit in Sept. 2017.

File Name: <http://w.w.w.MHCOGN27400-SKN-Sinhgad-Institute-of-Technology-and-Science-Lonavala.doc>.

Kindly acknowledge the same.

Thanking you.

Dr.M.S.Rohokale
PRINCIPAL

SKN SINHGAD INSTITUTE OF
TECHNOLOGY & SCIENCE
Kusgaon, Lonavala-410 401



PREFACE

SKN Sinhgad Institute of Technology & Science, Lonavala is pleased to present this **Academic Quality Assurance Report (AQAR)** to the National Assessment and Accreditation Council (NAAC), Bengaluru. Sinhgad Technical Education Society (STES) was established in the year 1993 under the dynamic leadership of Prof. M. N. Navale. The sole objective of the society is to provide quality education in the field of Engineering, Medical, Dental, Pharmacy, Management, Computer Applications, Architecture, Commerce, Law, Science and School education.

SKN Sinhgad Institute of Technology & Science (SKNSITS) Lonavala was established in the year 2011. The institute is recognised by All India Council for Technical Education (AICTE) New Delhi and Directorate of Technical Education (DTE) Government of Maharashtra. It is affiliated to Savitribai Phule Pune University (SPPU), Pune. The Institute is located at Lonavala, a popular hill station between two metros, Mumbai and Pune. The institute runs five undergraduate courses. Undergraduate courses include Mechanical Engineering, Electronics & Telecommunication Engineering, Computer Engineering, Information Technology, and Electrical Engineering.

The faculty strives hard to impart knowledge to the students in order to enhance their competency. The institute has state of the art laboratories which are upgraded in tune with the updation of syllabus by SPPU Pune. The institute is fully residential which provides favourable environment and enormous learning opportunities for students. It fosters their research mindset and character building for a bright future so as to emerge as tomorrow's nation builders. Students are exposed to modern instruments and test facilities with well-equipped learning resources.

SKNSITS believes in developing research culture in departments and supports innovative ideas from faculty and students. The extensive STPs are conducted to enhance the skills set and employability. Conduction of industrial visits, technical exhibitions and participation in various competitions are helpful to students in bridging the gap between industry and academia. Institute believes that it is contributing to engineering education; submission of this **Academic Quality Assurance Report (AQAR)** is a step towards assurance for quality in engineering education. While preparing this report we could very learn the status of our quality assurance program and we could analyse the gap between our planning and the goals achieved. This also helps to set the goal for coming academic year and efforts to be taken to satisfy that targets. We also understand that in current situation, Quality education to the students and faculty empowerment is the only way to sustain for long future.

Furthermore, institute is willing to assess its educational system and academic culture. In addition to it, it is essential for professional institute to receive stakeholder's perception towards teaching-learning process and supporting entities. Thus submission of this **Academic Quality Assurance Report (AQAR)** is a step towards self introspection leading to further development of the institute towards excellence

Dr. M. S. Rohokale.

NAAC Committee at Institute

Sr.No.	Name of Staff Member	Designation	Designation for Steering Committee
1	Dr. M. S. Rohokale	Principal	Chairman
2	Mr. N. K. Gavade	Assistant Professor & Head, Mechanical Engineering	Coordinator
3	Mr. S. D. Datey	Assistant Professor & Head, Electrical Engineering	Member
4	Mr. V. D. Thombre	Assistant Professor & Head, Computer Engineering	Member
5	Mr. G. M. Kadam	Assistant Professor & Head, Information Technology	Member
6	Ms. R. M. Thadi	Assistant Professor & Head, Electronics & Telecommunication Engineering	Member
7	Mr. G. V. Khandekar	Assistant Professor & Head, Engineering Sciences	Member
8	Mr. G. A. Kadam	Assistant Professor Mechanical Engineering	Member
9	Mr. P. D. Tambe	Assistant Professor Mechanical Engineering	Member
10	Mr. D. V. Dandekar	Assistant Professor Mechanical Engineering	Member
11	Mr. J. R. Shaikh	Assistant Professor & Dean R & D	Member
12	Mr. G. S. Sharma	Training & Placement Officer	Member
13	Mr. S. S. Navale	Registrar	Member

Composition of IQAC

Sl.No.	Name	Designation and affiliation
Chairperson		
1.	Dr. M. S. Rohokale	Principal
Members from the Management		
2.	Dr. M. S. Gaikwad	Member – Campus Director
3.	Prof. M. G. Bhat	Member – Director (Engg.)
4.	Prof. S. B. Pharkute	Director (Academics)
Seven Teachers		
5.	Mrs. R. M. Thadi	Head – Electronics & Telecommunication
6.	Mr. G. M. Kadam	Head – Computer Engg.
7.	Mr. S. B. Kothari	Head – Information Technology
8.	Mr. P. R. Chaugule	Head – Electrical Engg
9.	Mr. G. V. Khandekar	Head – Basic Sciences
10.	Mr. P. B. Lokare	Asst. Professor Mechanical Engg.
11.	Mr. S. S. Chavan	NSS Officer
12.	Mr. S. M. Patil	SWO
Administrative Officers		
13.	Mr. Mahesh Gosavi	Coordinator – Training and Placement
14.	Mr. S. S. Navale	Registrar
Coordinator IQAC		
15.	Mr. N. K. Gavade	Head – Mechanical Engg.
Outside Members		
16.	Miss. Aishwarya Yadav	Alumni
17.	Miss. Pratiksha Naik	Student Council
18.	Mr. D. T. Ligade	Student Parent
19.	Mr. Sagar Kodad	Team Leader – SQS Info System Pvt. Ltd.
20.	Mr. Raju Raskar	Director – Fabronic Engg. Pvt. Ltd.

Reports on IQAC Meetings

A. Minutes of First IQAC Meeting held on 5th July 2017

1. Prof. M. G. Bhat suggested few important nameplates and charts for different labs like RAC, BME, DOM etc. to decoration in charge Mr. G. A. Kadam.
2. Dr. M. S. Gaikwad explained their views related how to behave and welcome NAAC committee members in the lab during visit. He told Dead stock, Lab manual, Lab investment, Lab timetable etc should be ready with the lab incharge.
3. Management committee members have advised to make the arrangement of NAAC members in five star hotel like Faryaz or Amby valley in Lonavala.
4. Principal Dr. M. S. Rohokale informed to all steering committee members to schedule NAAC pre presentation on Saturday, July 8, 2017.
5. All hod informed about syllabus completion status of each department as average one unit.
6. The budget suggested approximate Rs. 60 k for the decoration of the college and accommodation of NAAC committee members by Mr. G. A. Kadam.
7. Principal Dr. M. S. Rohokale instructed to all hod to called NAAC file checking on Monday, July 10, 2017.
8. Mr. Divekar appreciates about the STP and said good initiation taken by Sinhgad Institute for placements. He also suggested to call senior person from the industry to get depth knowledge of the subject as per industry requirements.
9. Prof. S. B. Pharkute said that TPO should look into higher studies opportunities.
10. Mr. Gujran also noted that placement is the main quality of institute but quality of students should be observed.
11. Last semester SPPU results also observed by the committee and suggested to take remedial classes to all HOD.

The meeting ended with vote of thanks.

Coordinator IQAC

B. Minutes of Second IQAC Meeting held on 10th October 2017

Following Points were discussed in the meeting:

1. Review of the minutes of the last meeting.
2. The committee members appreciated the Principal, NAAC Coordinator and faculty members for successfully completion of NAAC Visit.
3. Discussion of Budget of SEM- II.
4. Prof.M.G.Bhat, Dean Engineering, STES told that the NAAC work is the continuous assessment & start preparation of AQAR.
5. Prof.S.B. Pharkute, Director (Academics), STES suggested to do failure analysis of the results and advised HODs to take necessary action.
6. Discussion on conduction on SPPU Examination.
7. Principal, Dr.M.S.Rohokale told that self up gradation of the faculty members and hence he advised faculty members to undertake courses on NPTEL.

The meeting ended with vote of thanks.

Coordinator IQAC

C. Minutes of Second IQAC Meeting held on 15th Dec 2017

Following Points were discussed in the meeting:

8. The committee members appreciated the Principal and faculty members for achieving A grade in NAAC
9. Prof.M.G.Bhat, Dean Engineering, STES told that the NAAC work is the continuous assessment and so advised the HODs to work on par with the new regulations given by NAAC.
10. Prof.S.B. Pharkute, Director (Academics), STES suggested to do failure analysis of the results and advised HODs to take necessary action.
11. The committee also suggested to arrange more number of industrial visits to ensure industry based learning among the students.
12. Principal, Dr.M.S.Rohokale told that self upgradation of the faculty members are the must for improving teaching learning process and hence he advised faculty members to undertake courses on NPTEL.
13. He also further insisted that the faculties should concentrate more on research and bring out research proposals atleast one per semester.

The meeting ended with vote of thanks.

Coordinator IQAC

D Minutes of Third IQAC Meeting held on 06th April 2018

1. Status of the syllabus coverage was discussed
2. It was proposed to work on all Saturdays and if required on Sundays to complete the syllabus
3. Proposed to conduct preliminary exam and mock practical and oral. Principal instructed the exam committee to prepare the schedule for the same
4. HODs are instructed to give Budget proposals for the lab purchase
5. HODs are informed to prepare academic calendar for the next academic year
6. All points were discussed regarding the syllabus coverage due to extension of the semester

The meeting ended with vote of thanks.

Coordinator IQAC

The Annual Quality Assurance Report (AQAR) of the IQAC

All NAAC accredited institutions will submit an annual self-reviewed progress report to NAAC, through its IQAC. The report is to detail the tangible results achieved in key areas, specifically identified by the institutional IQAC at the beginning of the academic year. The AQAR will detail the results of the perspective plan worked out by the IQAC. (Note: The AQAR period would be the Academic Year. For example, July 1, 2012 to June 30, 2013)

Part – A

I. Details of the Institution

1.1 Name of the Institution

SKN Sinhgad Institute of Technology & Science

1.2 Address Line 1

Gat No.309, Off Pune-Mumbai Express way

Address Line 2

Kusgoan (Bk)

City/Town

Lonavala

State

Maharashtra

Pin Code

410401

Institution e-mail address

principal.sknsits@sinhgad.edu

Contact Nos.

02114- 673225/243/391

Name of the Head of the Institution:

Dr.M.S.Rohokale

Tel. No. with STD Code:

02114- 673225/243/391

Mobile:

9552569863

Name of the IQAC Co-ordinator:

N.K.Gavade

Mobile:

9764355860

IQAC e-mail address:

aqar.sknsits@sinhgad.edu

hodmech.sknsirts@sinhgad.edu

1.3 NAAC Track ID (For ex. MHCOGN 18879)

MHCOGN27400

1.4 NAAC Executive Committee No. & Date:

EC (SC)/28/A & A/151.1 30/10/2017

(For Example EC/32/A&A/143 dated 3-5-2004.

This EC no. is available in the right corner- bottom of your institution's Accreditation Certificate)

1.5 Website address:

www.sinhgad.edu

Web-link of the AQAR:

<http://cms.sinhgad.edu/SKNSITS/SKNSITS-AQAR.pdf>

For ex. <http://www.ladykeanecollege.edu.in/AQAR2012-13.doc>

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 st Cycle	A	3.10	2017	5 yrs
2	2 nd Cycle	-	-	-	-
3	3 rd Cycle	-	-	-	-
4	4 th Cycle	-	-	-	-

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

10/08/2016

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

NA

1.9 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC ((for example AQAR 2010-11 submitted to NAAC on 12-10-2011)

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

1.10 Institutional Status

University State Central Deemed Private

Affiliated College Yes No

Constituent College Yes No

Autonomous college of UGC Yes No

Regulatory Agency approved Institution Yes No

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

Type of Institution Co-education Men Women

Urban Rural Tribal

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

Grant-in-aid + Self Financing Totally Self-financing

1.11 Type of Faculty/Programme

Arts Science Commerce Law PEI (Phys Edu)

TEI (Edu) Engineering Health Science Management

Others (Specify)

1.12 Name of the Affiliating University (*for the Colleges*)

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

Autonomy by State/Central Govt. / University

University with Potential for Excellence UGC-CPE

DST Star Scheme UGC-CE

UGC-Special Assistance Programme DST-FIST

UGC-Innovative PG programmes Any other (*Specify*)

UGC-COP Programmes

2. IQAC Composition and Activities

2.1 No. of Teachers

2.2 No. of Administrative/Technical staff

2.3 No. of students

2.4 No. of Management representatives

2.5 No. of Alumni

2.6 No. of any other stakeholder and community representatives

2.7 No. of Employers/ Industrialists

2.8 No. of other External Experts

2.9 Total No. of members

2.10 No. of IQAC meetings held

2.11 No. of meetings with various stakeholders:

No.	<input type="text" value="6"/>	Faculty	<input type="text" value="3"/>
Non-Teaching Staff	<input type="text" value="1"/>	Alumni	<input type="text" value="2"/>
Students	<input type="text" value="1"/>	Others	<input type="text" value="0"/>

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

If yes, mention the amount

2.13 Seminars and Conferences (only quality related)

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

Total Nos. International National State Institution Level

(ii) Themes

Sr. No.	Theme	Events
1	Research	Conference
		Workshops
		PhD Consortium
		Paper presentation
		STP-IV
2	Staff Development	Teaching: FDP, TTT, STTP
		Non-Teaching: PBL
3	Curriculum Development	Syllabus Revision
		VAP
		STP-V
		Open Elective
4	Student Mentoring and Support	TG/LG Scheme
		EDC
		NSS
		Competitive Exam Coaching: GATE
5	Innovations and Best Practices	STP
		PBL
		Environmental Consciousness

2.14 Significant Activities and contributions made by IQAC

- HR Meet
- 60 students participated in corporate training
- 12 Industrial visits had organised having more than 60 students in each
- 03 Industrial clubs are active
- Students participated in SAEBAZA and secured First Prize in Endurance and secured overall third rank
- Students participated in Go cart

2.15 Plan of Action by IQAC/Outcome

Plan of Action	Achievements
<ol style="list-style-type: none"> 1. To organize the meetings with all stake holders. 2. To develop E-content on course curriculum. 3. To insure improvement in Student Training Program and related activities. 4. To promote the R & D activities institute level. 5. To Promote Entrepreneurship development programme. 6. To Promote Environmental awareness programme. 	<ol style="list-style-type: none"> 1. Four meetings with all members of IQAC, Ten meetings with Teaching, and Five meetings with nonteaching is organized. 2. Videos lectures based University syllabus using K point platform are develop by internal faculty. Various teaching methods like Multimedia Learning Techniques, Web based teaching and E-learning (NPTEL) are followed by the Faculty. 3. STP Contents are modified and Training to newly added faculty is given. 4. Research groups in every department are formed and work is initialized. 5. EDC cell is activated, 6. Plantation in the campus is done.

2.15 Whether the AQAR was placed in statutory body Yes No

Management Syndicate Any other body

Provide the details of the action taken

First version of AQAR was sent for discussion and guidance in the statutory body, and with the corrections suggested by all concerned stake holders final report has been modified.

Part – B

Criterion – I

I. Curricular Aspects

1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD	Nil	Nil	Nil	Nil
PG	2	Nil	2	Nil
UG	5	Nil	5	Nil
PG Diploma	Nil	Nil	Nil	Nil
Advanced Diploma	Nil	Nil	Nil	Nil
Diploma	Nil	Nil	Nil	Nil
Certificate	Nil	Nil	Nil	Nil
Others	Nil	Nil	Nil	Nil
Total	7	Nil	7	Nil
Interdisciplinary	Nil	Nil	Nil	Nil
Innovative	Nil	Nil	Nil	Nil

1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options

(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	5
Trimester	NA
Annual	NA

1.3 Feedback from stakeholders* Alumni Parents Employers Students
(On all aspects)

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

*Please provide an analysis of the feedback in the Annexure

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

- Syllabus is revised after every 5 years by the university itself.
 - Syllabus of Third Year Engineering is revised in 2016-17
 - Syllabus of Final Year Engineering is revised in 2017-18

- Any new Department/Centre introduced during the year. If yes, give details.
 - Project lab
 - Skill development lab

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
128	103	1	7	17

2.2 No. of permanent faculty with Ph.D.

2

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

Asst. Professors		Associate Professors		Professors		Others		Total	
R	V	R	V	R	V	R	V	R	V
103	-25	1	19	7	4	17	2	128	0

2.4 No. of Guest and Visiting faculty and Temporary faculty

NIL
NIL
NIL

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	55	0	0
Presented papers	55	0	0
Resource Persons	1	1	0

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

i. PROJECT/PROBLEM BASED LEARNING (PBL):

Project/Problem based learning is an effective method which is implemented in our institute to aid the conventional teaching practices. In PBL, students group are formed and they are given a problem related to any of the topic from the syllabus. The group has to study the problem and give the solution to the problem. While working on the problem students get the theoretical knowledge behind the topic as well as by applying that theory they try to make any model, case study or sort of this.

ii. K-point Presentation and preparation of capsules

In this the topic wise audio visual power point presentations are prepared by the staff for their respective subjects and the same are shared with the students so that they will be able to get the idea about the topics they missed during their absence in class.

iii. NPTEL video lectures

These video lectures are provided to students to provide additional about the topics and it will be useful to those who missed their regular classes and it also acts as an aid for effective teaching.

iv. Think, Pair and share

In this before explaining any topic to the students, the teacher develops the atmosphere about that topic by asking some question about the topic known to students in their day to day life. Then pairs

are made for students and they are asked to share their ideas regarding the questions asked previously. Thus before starting the actual topic, the atmosphere gets developed in the class room.

v. Classroom Teamwork

Activities are given to the students which they need to complete in group. During this they get familiar to teamwork and sharing of their ideas is done.

vi. Various teaching methods like Multimedia Learning Techniques, Web based teaching, Practical Learning and E-learning are followed by the Faculty.

vii. Teaching aids such as OHPs/LCDs are used.

This helps in visualizing the phenomena and learning the topic effectively.

viii. Design experiments are given to students apart from the curriculum and syllabus.

This helps for their final year project.

ix. Use of GD, Role Play, Poster Presentation, Wall Magazine etc., as part of class room teaching is adopted.

x. Focus on student centered teaching is practiced by the Faculty members.

2.7 Total No. of actual teaching days

during this academic year

150

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

Open Book Examination, Online Multiple Choice Questions, Double Valuation, Photocopy

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

i. Restructuring

4

ii. Revision

4

iii. Syllabus development

26

2.10 Average percentage of attendance of students

71%

2.11 Course/Programme wise
distribution of pass percentage :

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
Mechanical	172	105	27	02	--	77.91
E&TC	27	18	8	--	--	96.29
Computer	87	53	25	1	--	90.80
IT	25	6	15	--	02	84
Electrical	46	30	10	11	--	91.30

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

Internal quality Assurance Cell of our Institute is having Management representative and along with Principal and Heads of all the respective departments. The online feedback from all the students is taken and based on various attributes of teaching –Learning, AMC committee members evaluates this feedback reports and gives the suggestions to faculty accordingly. In addition to on line feedback, Principal and HODs also take direct feedback from students. Conduction of daily lectures is also monitored by authorities. Teaching plan and subject notes are checked by concern HODs and randomly by Principal.

Monthly Attendance is displayed on notice board and special attention is given on lower attendance students. Results of University exam, Prelim exams and class tests are rigorously done by departments and corrective measures are taken, so as to improve teaching learning process. Appreciation letter are given to faculty having good performance and letter of improvement is given to those faculty who are not performing up to the mark.

2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	2
UGC – Faculty Improvement Programme	0
HRD programmes	2
Orientation programmes	51
Faculty exchange programme	10
Staff training conducted by the university	10
Staff training conducted by other institutions	10
Summer / Winter schools, Workshops, etc.	3
Others	76

2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	51	0	0	0
Technical Staff	28	0	0	0

Criterion – III

3. Research, Consultancy and Extension

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

- i. To promote the R & D activities institute level policy is framed out through which funds are provided for research activities of students and faculties.
- ii. Formed research groups in every department.
- iii. Lab Innovations
- iv. Industry sponsored projects
- v. Research is a significant activity of the institution, the main role of the IQAC is to motivate the faculty members for research contribution. As a result 25 faculty members have enrolled for PhD.
- vi. R&D Cell organizes various workshop such as research methodology, Patent Filing etc.
- vii. The research projects receive support from DST, SPPU, STES and other agencies.
- viii. IQAC explained the importance of need based interdisciplinary projects.
- ix. IQAC motivated the faculty members to register for copyright and patents.
- x. The importance of consultancy is explained to the faculty members.
- xi. IQAC give motivation to start consultancy in various stream.

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	00	02	00	00
Outlay in Rs. Lakhs	Nil	6	Nil	Nil

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	2	00	00	00
Outlay in Rs. Lakhs	1	Nil	Nil	Nil

3.4 Details on research publications

	International	National	Others
Peer Review Journals	05	Nil	Nil
Non-Peer Review Journals	41	Nil	Nil
e-Journals	Nil	Nil	Nil
Conference proceedings	09	Nil	Nil

3.5 Details on Impact factor of publications:

Range Average h-index Nos. in SCOPUS

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

Nature of the Project	Duration Year	Name of the funding Agency	Total grant sanctioned	Received
Major projects	02	STES	600000	600000
Minor Projects	02	BCUD	100000	100000
Interdisciplinary Projects	Nil	Nil	Nil	Nil
Industry sponsored	Nil	Nil	Nil	Nil
Projects sponsored by the University/ College	Nil	Nil	Nil	Nil
Students research projects <i>(other than compulsory by the University)</i>	Nil	Nil	Nil	Nil
Any other(Specify)	01	BCUD	115000	115000
Total			815000	815000

3.7 No. of books published i) With ISBN No. Chapters in Edited Books

ii) Without ISBN No.

3.8 No. of University Departments receiving funds from

UGC-SAP CAS DST-FIST
DPE DBT Scheme/funds

3.9 For colleges Autonomy CPE DBT Star Scheme
INSPIRE CE Any Other (specify)

3.10 Revenue generated through consultancy

3.11 No. of conferences organized by the Institution

Level	International	National	State	University	College
Number	Nil	02	Nil	Nil	Nil
Sponsoring agencies	--	Self	--	--	--

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

3.13 No. of collaborations International National Any other

3.14 No. of linkages created during this year

3.15 Total budget for research for current year in lakhs :

From Funding agency From Management of University/College
Total

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	Nil
	Granted	Nil
International	Applied	Nil
	Granted	Nil
Commercialised	Applied	Nil
	Granted	Nil

3.17 No. of research awards/ recognitions received by faculty and research fellows

Of the institute in the

year

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

3.18 No. of faculty from the Institution

who are Ph. D. Guides

and students registered under them

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

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

JRF

SRF

Project Fellows

Any other

3.21 No. of students Participated in NSS events:

University level

State level

National level

International level

3.22 No. of students participated in NCC events:

University level	<input type="text" value="0"/>	State level	<input type="text" value="0"/>
National level	<input type="text" value="0"/>	International level	<input type="text" value="0"/>

3.23 No. of Awards won in NSS:

University level	<input type="text" value="0"/>	State level	<input type="text" value="0"/>
National level	<input type="text" value="0"/>	International level	<input type="text" value="0"/>

3.24 No. of Awards won in NCC:

University level	<input type="text" value="0"/>	State level	<input type="text" value="0"/>
National level	<input type="text" value="0"/>	International level	<input type="text" value="0"/>

3.25 No. of Extension activities organized

University forum	<input type="text" value="5"/>	College forum	<input type="text" value="17"/>
NCC	<input type="text" value="0"/>	NSS	<input type="text" value="15"/>
		Any other	<input type="text" value="1"/>

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

The college is fully residential & placed in the rural area. It has been therefore necessary to create all kind of facilities in the campus. It was also visualized that curriculum doesn't focus on specific project- based skill sets, which industry demands. The students also need to be involved into cultural and sports activity. The following activities have been exercised in this campus.

- Tree Plantation
- Rain Marathon
- Visit to 'Shenhsadan' Orphanage, Khandala and contributed to the children's growth by providing necessities for day to day nourishment from every aspect.
- Rural School Visit for computer training
- Visit to Narayanrao Sanas Vidyalaya, Pune
- Extension Activity- Distribution of Books and food
- Also with all these following activities are conducted under NSS
- Visit to Zilha Parishad school , Kusgaon,Lonavala.
- Cleaning Camp at Lonavala Railway station.
- Blood Donation camp for students and Faculty.

Sr. No.	Program	Purpose
1	International white cane day contribution for blinds.	Creating awareness in the society about blinds
2	Poster Presentation and competition on social awareness organized on the occasion of Lal Bahadur Shastri and Gandhi Jayanti.	To support Swachh Bharat Abhiyan
3	Road safety Abhiyan at Varsoli Toll plaza.	Creating awareness in the society regarding traffic rules like, Seat Belt wearing, Don't Drink and Drive
4	Street play organized on Rajmata Jijau Jayanti and Swami Vivekananda Jayanti.	It is organized to create awareness in the society, Women empowerment, Use of social media, Swachha Bharat
5	Maharashtra Youth Training program at Balewadi, Pune.	Youth Development Organized by Govt. of Maharashtra
6	National Integration camp at Allahabad, Uttarpradesh.	Organized by Nehru Yuva Kendra
7	Help for Police During Elections as special police force.	For smooth conduction of election
8	Special winter camp at Karungoan Taluka Maval.	To develop villages

Criterion – IV

4. Infrastructure and Learning Resources

4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	101171 Sq.m	--	--	101171 Sq.m
Class rooms	21	--	--	21
Laboratories	48	--	--	48
Seminar Halls	03	--	--	03
No. of important equipments purchased (\geq 1-0 lakh) during the current year.	--	--	--	--
Value of the equipment purchased during the year (Rs. in Lakhs)	--	--	--	--
Others	--	--	--	--

4.2 Computerization of administration and library

Web **OPAC** (Online Public Access Catalogue) facility is made available through Auto Library Management Software to know the bibliographical details about the collection. One separate node is made available in the Central Library for **OPAC** facility.

Electronic Resource Management package for e-journals

The library subscribes **Elsevier / science direct** package. In addition to that, link to scholarly open access journals/database is also available on the Library webpage.

A well-equipped Digital Library with 10 nodes having internet connectivity is housed in the Central Library for access to e-publications. As the access facility to e-journals is multi-user and IP address-based, students can access the e-publications from anywhere in the campus.

Library Automation:

All the active book collection is updated in the Auto Library Management Software database and the Web OPAC is available for the users. The issue and return of books has been activated with the Auto Library Management Software.

Administration

- Dedicated FTP server for downloading several open source software like Adobe, Android OS, Corel Draw, Browsers, Java, TC and Turbo C++ etc.
- Online Access to ERP resource for knowing progressive performance of students, learning resource.
- Almost every computer in the campus is connected to Internet facility.
- The Principal cabin, Office, HOD and faculty cabins have the facility of Internet.
- The ratio of computers to students is approximately 1:4.6
- The Institute has a digital library.
- Also there are 50-60 Wi-Fi access points available on campus.
- 24 x 7 hours Internet access.

4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	12021	5900000	185	95000	12207	6000000
Reference Books	1918	--	32	--	1950	--
e-Books						
Journals	40	80000	--	--	--	80040
e-Journals	1	370000	--	--	--	370001
Digital Database	1	--	--	--	--	01
CD & Video	505	--	--	--	--	505
Others (specify)	--	--	--	--	--	--

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	443	13	48Mbps	01	01	09	443	--
Added	--	--	--	--	--	--	--	--
Total	443	13	48Mbps	01	01	09	443	--

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

- Guest lecture on “Contribution of ETL Mechanism for processing of data from OLTP to OLAP” by Mr. Kranthi Kumar Singamaneni, IBM India Pvt. Ltd. on July 07, 2016
- Expert talk on providing early Project Guidance by own Alumni Mr.Sanket Ghorpade of Manage Code Cultivate for BE students.
- Expert Lecture on “Fundamentals of Android application development on 16th January, 2017 by Mr. Mithilesh Izardar who is currently working in Entraltech Pvt. Ltd.Expert talk on elaborating “Digital Transformation” by Swati Kashyap & Manish Deshpande from NIIT Ltd on on 16th January, 2017

- Expert talk on explaining importance of Technical Research by Prof. Kund Erik Skouby from Aalborg University, Dr. Antonis Michalas from University of Westminster, London, UK on February 18, 2017
- World Entrepreneurs Day Celebration organized on Saturday September 24, 2016 by Microsoft Campus Club
- Training to non – teaching staff members on computer maintenance and networking

4.6 Amount spent on maintenance in lakhs:

i) ICT	0.14
ii) Campus Infrastructure and facilities	45.30
iii) Equipments	1.34
iv) Others	20.24
Total :	67.02

Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

Institute has enhanced following support services to students,

- i. New MoUs were signed with industries to strengthen the Industry-Institute Interactions.
- ii. Specially designed Induction programme is conducted for first year engineering students who are new to engineering domain.
- iii. Every department conducts an induction program for second year students to give them a warm welcome at department.
- iv. College website and Governing Education Management System (GEMS) is used to provide the links that are web-based and intranet resources.
- v. Mentoring scheme is implemented to have a face to face interaction with individual students.
- vi. Student training programs
- vii. Organizing coaching classes for competitive exams (GATE)
- viii. VAP
- ix. A major statistical assessment platform to assess employability in the form of Aspiring Minds Computer Adaptive Test (AMCAT) is undertaken which is well accepted by top Multi-National Companies (MNC's).
- x. Institute has well established Microsoft Campus Club, IBM center of Excellence and Persistent Center of Excellence to support strong industry interaction.
- xi. Remedial classes are arranged for weak students after each internal or university result analysis.

5.2 Efforts made by the institution for tracking the progression

- i. EDC Cell
- ii. T&P Cell
- iii. TG Scheme
- iv. Continuous assessment
- v. Monitoring and evaluating results of internal and University examinations.
- vi. Online Students Feedback
- vii. Carrying out continuous assessment for practical subjects.
- viii. Encouraging lab innovations.

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
213	00	--	--

(b) No. of students outside the state

(c) No. of international students

Men	No	%	Women	No	%
	180	84.55		33	15.45

Last Year (2016-17)						This Year (2017-18)					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
116	14	00	100	01	231	132	9	0	72	0	213

Demand ratio = 100 % Dropout = 5 %

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

- GATE Coaching Classes
- Foreign language classes (German, Japanese Language)
- Expert lectures and seminars are conducted on regular basis for students

No. of students beneficiaries

5.5 No. of students qualified in these examinations

NET	<input type="text" value="00"/>	SET/SLET	<input type="text" value="00"/>	GATE	<input type="text" value="02"/>	CAT	<input type="text" value="00"/>
IAS/IPS etc	<input type="text" value="00"/>	State PSC	<input type="text" value="00"/>	UPSC	<input type="text" value="00"/>	Others	<input type="text" value="00"/>

5.6 Details of student counselling and career guidance

- STP
- TG Scheme
- Coaching classes for competitive exams
- EDC Cell
- Invited Talk

No. of students benefitted

5.7 Details of campus placement

<i>On campus</i>			<i>Off Campus</i>
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
118	243	72	21

5.8 Details of gender sensitization programmes

- Institutional Women Grievances cell is in place under which following women empowerment activities are conducted.
- Rain marathons are arranged with themes like — "Run for Women Safety" and —"Save girl child."
- The committee of Women's Grievance cell- Internal Complaint Committee (WGC-ICC) had arranged a seminar on "Menstruation in Women" which was delivered by Dr. Kalyani (MBBS intern-Pune). It was organized on February 08, 2017.
- The committee had also invited Mrs. Uma Mehta (President Lions Club- Lonavala) and Mrs. Rekha Pav (Secretary Lions Club- Lonavala) for inaugurating workshop on 'People united Against Sexual Harassment-PUSH' on February 27, 2017. More than 450 students participated in it.

5.9 Students Activities

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

State/ University level National level International level

No. of students participated in cultural events

State/ University level National level International level

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

Sports: State/ University level National level International level

Cultural: State/ University level National level International level

5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution	02	105766
Financial support from government	860	43365521
Financial support from other sources	00	00
Number of students who received International/ National recognitions	00	00

5.11 Student organised / initiatives

Fairs : State/ University level National level International level

Exhibition: State/ University level National level International level

5.12 No. of social initiatives undertaken by the students

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

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

Vision:

We are committed to produce not only good engineers but good human beings, also.

Mission:

Holistic development of student and teacher is what we believe in and work for. We strive to achieve this by imbibing a unique value system, transparent work culture, excellent academic and physical environment conducive to learning, creativity and technology transfer. Our mandate is to generate, preserve and share knowledge for developing a vibrant Society.

6.2 Does the Institution has a management Information System

Yes, the Institution has a Management Information System.

- Accounts and Financial works
- Store and material requisition
- Staff attendance biometric
- Library Information System
- SMS Facilities
- Daily Absent Report (student)
- Student records
- Evaluation and Examination procedures
- Others : E-exam portal for Mock online tests

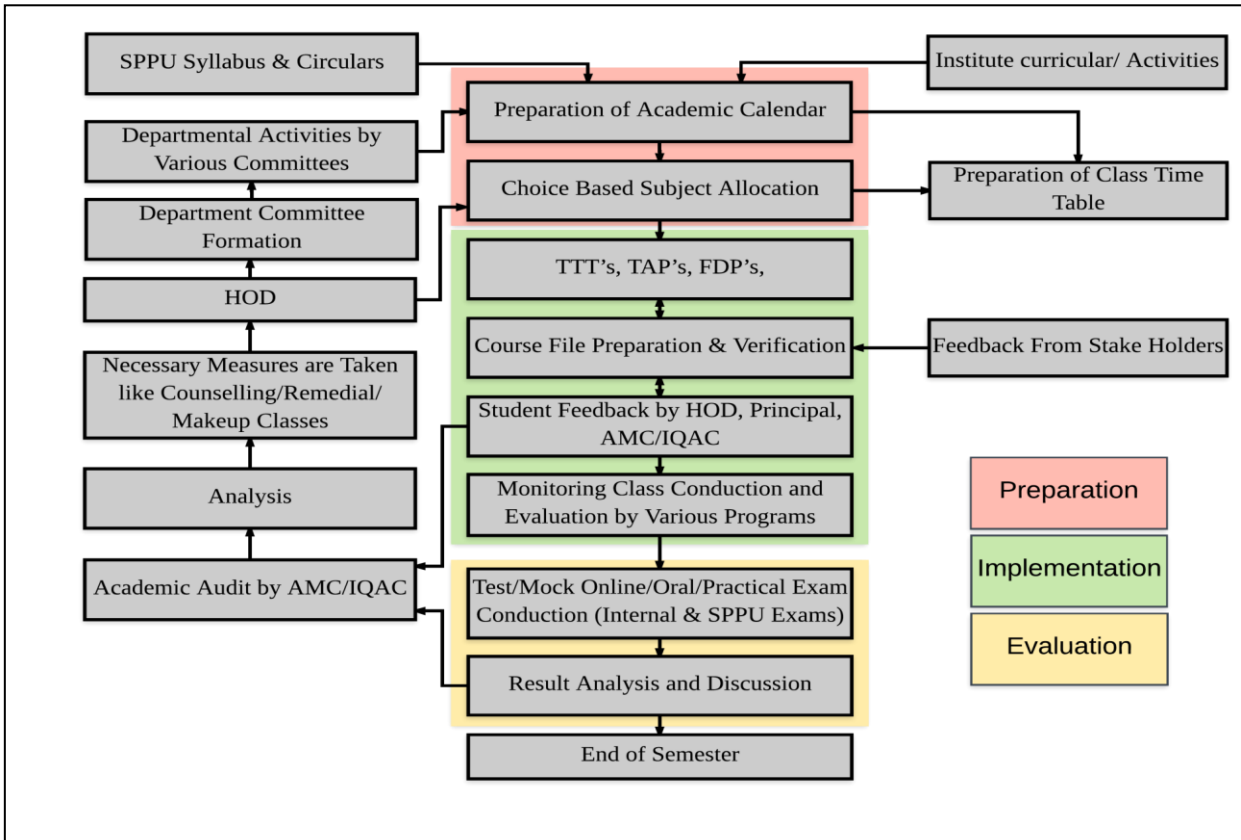
ERP-GEMS- Online access of course material through ERP

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

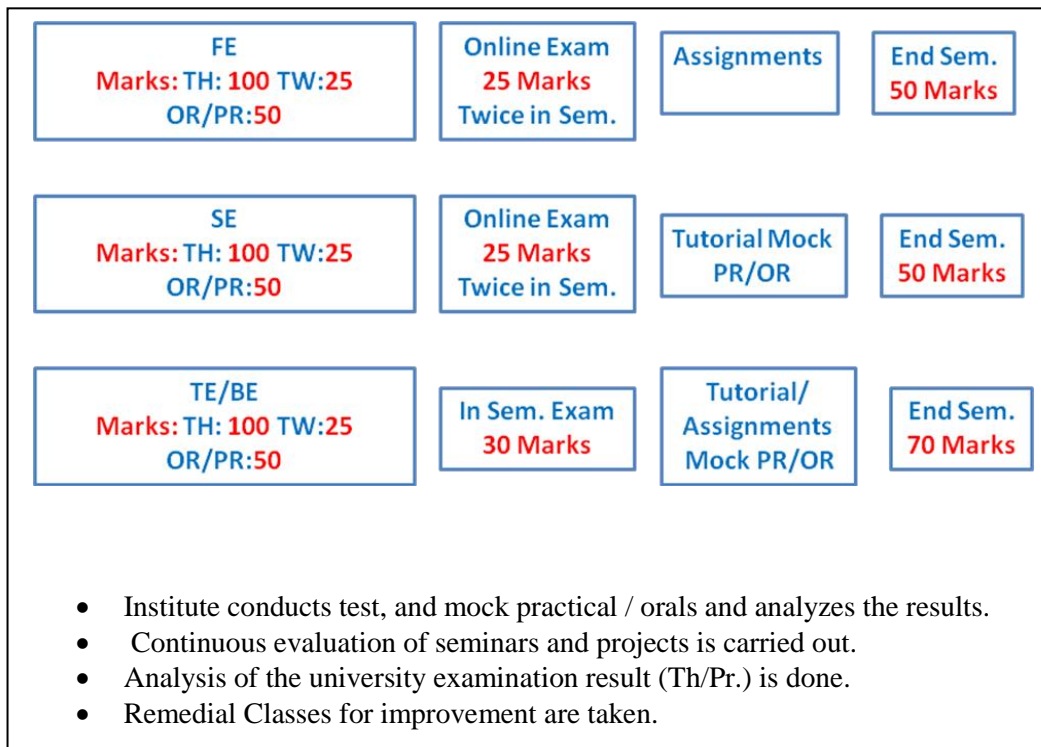
6.3.1 Curriculum Development

- Institute collects the feedback from all stakeholders for improvement and development of curriculum and communicates the same to University for the desired revision.
- Many senior faculties have actively participated in curriculum development and revision as a member of various committees at University level

6.3.2 Teaching and Learning



6.3.3 Examination and Evaluation



6.3.4 Research and Development

- e-journals and databases, print copy based national and international journals
- Encouraging the faculty to attend seminars, workshops, STTP and FDP
- Encouraging the faculty to participate in National and International Conferences
- Recommending the faculty to go on study leave as per the need
- Giving freedom to the principal investigator for spending the grants received from various agencies
- Budgetary provision for purchase of research related equipment/instruments and software
- Reducing the quantum of workload of faculty doing Ph.D.
- Operating the Research Club & Research Convention for motivation
- Conduction of Workshops on IPR and patenting.
- Encourage students to undertake industry sponsored projects
- Encourage students to Write technical papers and contribute for research activities
- Recognizing Inspirational thinking of the students by awarding Best Student Projects every year.

6.3.5 Library, ICT and physical infrastructure / instrumentation

Library: Institute has constituted a committed library advisor committee, this committee is active throughout the year to update and improve the quality of library and its resources

- The faculty members and students are made aware about the use of the reference books, other useful books and digital library through notice and circulars.
- Excellent environment have been provided for students as well as faculty.
- Open access system is provided.
- NPTEL (National Program on Technology Enhanced Learning) video lectures and e-resources are available throughout campus by Wi-Fi connectivity.
- Book bank scheme is provided.
- Day-night reading hall facility is provided.

ICT:

- In house and remote access to E-journals, Library automation, federated searching tools, printing services etc.
- The faculty and students can access e – resources available in the library, video lecture through ERP available with each department.
- Digital library is available with several e-books and e-journals from IEEE (ASPP Package), Science Direct (Elsevier),
- Remote Access to Alborg University e-library, British Council Library, Pune, ARAI Library, Pune

Physical Infrastructure:

- The institute has well-furnished infrastructure having classrooms with modern teaching aids such as LCD projectors, computer centre, well equipped laboratories seminar halls and open auditorium .
- Amenities and facilities such as well-maintained CCTV surveillance at all strategic locations, generator, water purifier, canteen and mess, ATM of ICIC AND SBI Bank are available. Well equipped gymkhana with sports facility of indoor and outdoor games, play grounds, girls and boys hostels.
- Institute has spacious and well-furnished library with reading room, digital library, E-journals, and print journals.
- Maintenance and cleanliness is done on regular basis.

6.3.6 Human Resource Management

The Institute has the following mechanisms for optimized management and improvement in Human Resource:

- The performance assessment of the teaching faculty is done regularly through feedback taken from students. Counseling of faculty is done by giving them suggestions based on the feedback to apply corrective measures for improvement.
- The faculties from the various departments are encouraged for higher education.
- Updating knowledge of faculty through FDP, invited talk, Training to non-teaching staff.
- For convenience of campus non-residential staff institute provides transport facility for staff coming from Pune.
- Free medical facility is given to all teaching and non teaching staff.

6.3.7 Faculty and Staff recruitment

Institute conducts recruitment as per UGC/AICTE norms. Transparency is ensured in the recruitment process

6.3.8 Industry Interaction / Collaboration

- Institute has formed Industry Institute interaction cell and it aims to promote industry institute interaction through students training programs.
- Students are motivated to undertake their final year project in the relevant industries of their domain.
- To bridge gap between industry and institute students are encouraged to participate in internship program of industry.
- Industrial tours and trainings are organized for providing industry exposure and understanding actual working of industry .
- Guest lectures are conducted by industry expert person on various current technologies and industry requirements..
- The Institute has signed MOUs with well-known industries for students training.
- Enhancement of employability skills of students is done by STP activities, AMCAT, ET, QALR, development of research activities, Value Addition Program, technical events like Techtonic.
- Entrepreneurship Development Cell was established in 2012 with identified objectives.
- Several activities like entrepreneurship seminar for student entrepreneurs, entrepreneurship week, etc. have been conducted and many more are planned by this cell.

6.3.9 Admission of Students

Admission of the students is through a central process conducted by a state government body DTE (Directorate of Technical education) where students choose an institute as per their choice. Students with higher merit and students with special calibre seek admission to this institute due to its reputation as a 'high standard' institution. The institute maintains this reputation by adopting following strategies-

- Maintaining good results in University examinations by means of quality trends in teaching learning

- Providing quality infrastructure and facilities
- Maintaining good training and placement records.
- Maintaining Ragging-free environment
- Institute has maintained lush green picturesque campus that easily attracts student community.
- Ample hostel facility for girls and boys is provided on the campus.
- Various sports facilities are available to students like 25-acre sports complex with grounds for football, cricket, basketball, athletic track, swimming pool, gymnasium, etc.
- The institute conducts admission process awareness programmes, counselling sessions for prospective students.

6.4 Welfare schemes

Teaching	<ul style="list-style-type: none"> • Group insurance scheme • Accidental insurance • Staff quarters • Free medical treatment • Registration fee for FDP programs • Maternity leaves are provided as per the government and university rules • Sabbatical leaves are granted to more than 10% staff for the higher studies • Employee Provident Fund (EPF) with 100% gratuity for all staff
Non-teaching	<ul style="list-style-type: none"> • Group insurance scheme • Accidental insurance • Staff quarters • Free medical treatment • Maternity leaves are provided as per the government and university rules • Sabbatical leaves are granted to more than 10% staff for the higher studies • Employee Provident Fund (EPF) with 100% gratuity for all staff
Students	<ul style="list-style-type: none"> • Teacher guardian scheme • Students' welfare Cell • Women's grievance cell • Training & Placement activities • Sports facilities and cultural festival • Alumni activities • Social activities • Earn & learn scheme • Scholarship

6.5 Total corpus fund generated

NA

6.6 Whether annual financial audit has been done

Yes No

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	AICTE/NAAC	Yes	IQAC/HOD/Principal
Administrative	Yes	AICTE/NAAC	Yes	IQAC /HOD/Principal

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

For UG Programmes Yes No

For PG Programmes Yes No

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

- Unit by unit preparation and practice, self-simplified internal test questions, self-learning sessions, and tutorial benefits are given to such students.
- Faculties provide model solutions of university question papers.
- Conduction of mock practical for practice
- Online e-Exam portal is available for students for online examination practice.
- Personalized guidance is being provided to students to reduce the risk of dropout.
- The slow learners are motivated to attend extra lectures after college working hours.
- The failed students are encouraged to attend remedial classes.

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

NA

6.11 Activities and support from the Alumni Association

Institute has alumni association as “**SKN SINHGAD INSTITUTE OF TECHNOLOGY AND SCIENCE** “Students Alumni Association registered with Charity Commissioner Pune with Registration No. MAH/ 362/ 2017 /pune, dated 27/09/2017.

Major activities and contributions of this association are:

- Involvement in curriculum development.
- Conduction of seminars/Invited talks for the students.
- Support for final year projects.
- Feedback from the Alumni is being continuously received for academic development and career opportunities for students
- Information about placement/ job openings across the country.
- Recommendations for curriculum modifications based on industry requirement.
- Internships for students.

6.12 Activities and support from the Parent – Teacher Association

- Parents Teachers meetings twice in a year
- Phone calling by TGs regarding student’s performance
- Feedback system
- Parents who are working in core sector support the co-curricular activities through Invited Talks and advise the department on matters pertaining to curriculum and career opportunities.

6.13 Development programmes for support staff

- Institute enhances academic skill development of staff by organizing programs like Conference, Workshop, Seminar, FDP, STTP, TAP, TTT etc.
- Institute sponsors the faculty for attending revised syllabus orientation workshops held by SPPU, Pune
- Faculty members are given enough scope to publish papers in peer reviewed journals

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

Institution itself has taken stringent measures for the conservation of nature and natural resources.

The measures are as follows:

- Water and Energy auditing
- Planting trees in the campus
- Separate bins are kept in the campus for segregating waste
- Solid waste collection, segregation and management of solid wastes

Use of Renewable Energy :

- Solar water heater is available in the college campus hostel
- Internal workshops are conducted periodically on Solar Energy Conservation for general awareness on solar energy conservation and sustainability

Energy conservation: Modern energy saving technologies are promptly adopted by the institute such as replacement of CRT monitors by their LCD versions, replacing energy-intensive resistance type fan regulators by low consumption solid state regulators, etc

Water Harvesting: Given the above-normal rainfall in Lonavala, the institute has plans to adopt the rainwater harvesting to tap this natural resource to recharge the tube wells on the campus. These tube wells supply a major chunk of the water to the campus habitation after being treated in the plant.

Criterion – VII

7. Innovations and Best Practices

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

- STPs (Student Training Program)
- Lab innovations

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

1. Feedback of last year programs are taken from all stake holders
2. Content modification is done based on feedback
3. Training sessions are conducted for trainers for effective implementation

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

- i. Project Based Learning Environment
- ii. Comprehensive Student Training Program (STP)
- iii. Paperless governance with GEMS

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

7.4 Contribution to environmental awareness / protection

- Tree Plantation
- Fort Cultivation
- Street plays (Supporting Clean India)
- Winter Camp (For developing awareness regarding various environmental issues)

Energy conservation:

Apart from an economy point of view, energy conservation is imperative from the nation's perspective. The best care has been taken while designing several buildings on the campus so that they are highly ventilated and well lighted by the daylight. Most of the academic and administrative premises hardly require artificial lighting and ventilation during day time because of the eco-friendly design. In a due response to major energy sufficiency initiatives taken by the central and state governments, the Institute is contemplating major green initiatives in the form of replacement of conventional tube lights by LED lighting and tapping the abundant resource of solar energy. Students of the institute have surveyed and evaluated the energy conservation potential in the campus. Modern energy saving technologies are promptly adopted by the institute such as replacement of CRT monitors by their LCD versions, replacing energy-intensive resistance type fan regulators by low consumption solid state regulators, etc.

A. Use of renewable energy:

Solar thermal energy systems have been extensively deployed on the campus for hot water supply in hostels. Considering the cost effective solar PV technologies being available in the market and with recent announcement of renewable energy policies by central and state government, the institute has designed a solar PV generation project for the campus.

B. Water harvesting:

In view of the above-normal rainfall in Lonavala, the institute has plans to adopt the rain water harvesting to tap this natural resource to recharge the tube wells on the campus. These tube wells supply major chunk of the water to the campus habitation after being treated in the plant.

C. Efforts for carbon neutrality:

Carbon neutrality efforts are based on the theme of repair, reuse and recycle. Bio waste from trees and plants is not burnt but is put in compost plant and used in garden. Paper waste is sold for recycling and reuse. Institute promotes use of furniture made of particle board. Air conditioners, refrigerators and water coolers are of good quality and having eco-friendly refrigerant. The power backup sets of diesel generators are equipped with catalytic converter for exhaust gas. Out of 160 acre campus, lawns, plantations, big trees and jungle are spread over 50% portion.

Paperless governance is carried out through GEMS online, the ERP platform. All types of leaves by faculty and staff are submitted through GEMS only and use of paper is completely eliminated for that purpose. Institute promotes paperless communication by mail and SMS and also promotes two sided printouts for internal communications and submission of term work. Facilities like canteen, laundry, cafeteria, Photocopy Centre, and ATM by Central Bank of India, State Bank of India are provided on campus for students and staff so that travelling time and fuel is saved.

D. Plantations:

Plantation is an ongoing activity in the campus. Maintenance of existing trees and planting new saplings is religiously done every year in an appropriate season. Success of this mission is quite evident when one visits the campus. The natural jungle like environment is intentionally preserved wherever possible.

E. Waste management:

Daily garbage is collected by housekeeping personnel and handed over to Municipal garbage vehicle. All waste water lines from toilets; bathrooms etc. are connected with Municipal drainage mains. Waste material like plastic, papers etc. are collected and sold out to scrap vendor from time to time.

E-waste management: The e-wastes are disposed periodically through a professional e-scrap vendor.

7.5 Whether environmental audit was conducted? Yes No

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

Strengths

- Competent faculty and their retention
- Rankers in the list of SPPU Pune
- Innovative teaching-learning practices
- State-of-the-art laboratories and infrastructure
- Effective implementation of VAPs, and STPs
- Project Based Learning (PBL) approach
- Entrepreneurship Development Cell
- Good placement record
- Teacher guardian scheme
- Transparent, conducive and collaborative work environment
- Fully residential campus
- Sports complex of international standards

- Active NSS Programme leading to successful extension activities

Weaknesses

- Lack of faculty with Ph.D.
- The paucity of research grants.
- Less number of publications in indexed journals
- Moderate institute-industry interaction
- Less number of patents and consultancy work.
- Amateur alumni association

Opportunities

- There is scope for an inter-disciplinary and collaborative research
- Development of e-learning resources
- Strengthening Industry Institute Interaction Cell.
- To establish a research centre of good repute.
- Joint research and Ph.D. programmes with international universities

Challenges

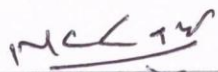
- Induction and retention of faculty with Ph.D.
- Qualitative improvements in the academic result.
- Attract meritorious students
- Adaptability to globally changing industry scenario

8. Plans of institution for next year

Planning for A.Y. 2018-19	
Sr. No.	Name of activities with tentative Target
1	To make Research collaborations (VJTI/IIT) -03
2	Setup for Enterprise Tie Ups (SETU) initiative - 02
3	Consultancy projects - 2.5 lakhs
4	Patents to be filed - 03 (IPR policy at Institute level to be finalize)
5	Good Governance & Leadership Activities- 02
6	Provision for Ph.D. guides- 02
7	Research Fellowship- 02
8	To make MoU with MCED/DIC- 02
9	To Promote faculty for higher education- 05
10	NPTEL Certifications- Staff : 15 and Students:50
11	Conference: 03 and Workshops:02
12	Start-ups: 04
13	MHRD Programme :01
14	FDP: 02 , STTP: 02

Name M.K. Gavade

Name Dr. M.S. Rohokale




Signature of the Coordinator, IQAC

Signature of the Chairperson, IQAC


Annexure I : Academic Calendars


SKN SINHGAD INSTITUTE OF TECHNOLOGY & SCIENCE, LONAVALA ACADEMIC CALENDER/ FE - 2017-18 /SEMESTER –II				
Sr. No	Week No.	Particulars	No. of days	Date & Day
01	01	Commencement of Teaching	-	01 st Jan 2018 (Mon)
02	01	Admission and registration	6	01 st Jan -06 st Jan 2018
03	03	Spandan 2018	2	18 th & 19 th Jan 2018
04	02-05	Teaching	24	1 st Jan -02 nd Feb 2018
05	06	A.)Mock Tests- Two tests/unit –Total 8 tests on 4 units (25 Marks/Test) B.)Unit Test-I (25 Marks / 1hour/2 Units)	-	A.)As Per Time Table B.) 31 st Jan -02 nd Feb 2018 (Wed to Fri)
06	06	Declaration of Result of Unit Test-I	1	05 th Feb 2018 (Mon)
07	07	Online Test Phase –I/SPPU (25 Marks / 30 min. / Units: 1,2)	5	05 th Feb to 10 th Feb 2018
08	07	Remedial classes for Unit Test-I & Teaching & Midterm submission *	5	05 th Feb to 10 th Feb 2018 (Mon to Fri)
09	07	Neon & Tech tonic	6	15 th Feb to 22 th Feb 2018
10	07	Alumni Meet	1	18 th Feb 2017
11	08-11	Teaching	10	12 th Feb 26 th Feb 2018
12	11	Unit Test-II (25 Marks / 1 hour / 2 Units) & Teaching	3	27 th Feb to 1 st March 2018 (Tue to Th)
		Declaration of Result of Unit Test-II & Teaching	1	5 th March 2018 (Mon)
13	11	Online Test Phase –II/SPPU(25 Marks / 30 min. / Units: 3,4)	6	5 th to 10 th March 2018(Mon to Sat)
14	11	Remedial classes for Unit Test-II & Teaching	6	5 th to 10 th March 2018(Mon to Sat)
15	11	Parent meet	1	16 th March 2018,
16	12-15	Teaching	22	12 th March to 13 th April 2018
17	15	Conclusion of Teaching	1	13 th April 2018 (Fri)
18	16	Prelim Exam (50 Marks / 2 hour/ Units I - VI) **	5	16 th April to 20 th April 2018(Mon- Fri)
19	16	Declaration of Result of Prelim Exam	1	20 th April 2018
20	16	Issue of Term Grant Certificate to All Clear Students in Prelim Exam	1	20 th April 2018
21	18	University Examinations: Theory	-	2 nd to 29 th may 2018

* 50% Submission should be completed & duly certified by the Faculty & HOD.
** 25 marks for unit 5& 6 as per Savitribai Phule Pune University Pattern.

Note
All these activities need to be incorporated in the Departmental Academic calendar.

- Attendance will be displayed on the 2nd day of every month.
- Holidays as per Circular from Savitribai Phule Pune University and STES Circulars.




 (Dr. M. S. ROHOKALE)
PRINCIPAL
 SKN SINHGAD INSTITUTE OF
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 Kusgaon, Lonavala-410 401

**SKN SINHGAD INSTITUTE OF TECHNOLOGY & SCIENCE, LONAVALA
ACADEMIC CALENDER/ SE - 2017-18 /SEMESTER –II**

Sr. No	Week No.	Particulars	No. of days	Date & Day
01	01	Commencement of Teaching		18 th Dec 2017(Mon)
02	01-02	Registration , VAP		18 th Dec -29 th Dec 2017
03	03-04	Teaching		1 st Jan -12 th Jan 2018
04	05	Teaching,Spandan 2018		15 th Jan to 19 th Jan 2018,18 th & 19 th Jan 2018 (Spandan 2018)
05	06	A.)Mock Tests- Two tests/unit –Total 8 tests on 4 units (30 Marks/Test) B.)Unit Test-I (30 Marks / 1hour/2 Units) &Teaching		A.)As Per Time Table B.) 22 nd Jan-25 th Jan 2018(Mon to Thru)
06	06	Republic Day		26 th Jan 2018(Fri)
07	07	Declaration of Result of Unit Test-I & Teaching		29 th Jan to 2 nd Feb 2018
08	07-08	Online Test Phase –I/SPPU (25 Marks / 30 min. / Units: 1,2)		5 th Feb to 10 th Feb 2018
09	08-09	Remedial classes for Unit Test-I & Teaching & Midterm submission *		12 th Feb to 14 th Feb 2018
10	09	Mahashivaratri		13 th Feb 2018(Tue)
11	09-10	Neon & Techtonic 2018, Alumni Meet		15 th Feb to 22 nd Feb 2018,18 th Feb 2018
12	10	Shivajijayanthi		19 th Feb 2018(Mon)
13	10	Teaching		23 rd Feb 2018
14	11-12	Unit Test-II (30 Marks / 1 hour / 2 Units) & Teaching		26 th Feb to 1 st March 2018 (Mon to Thur)
		Holi		2 nd Mar 2018 (Fri)
		Declaration of Result of Unit Test-II & Teaching		5 th March 2018 (Mon)
15	12	Online Test Phase –II/SPPU(25 Marks / 30 min. / Units: 3,4)		5 th to 10 th March 2018(Mon to Fri)
16	13	Remedial classes for Unit Test-II & Teaching		12 th March to 16 th March 2018(Mon to Fri)
17	13	Parent meet		16 th March 2018
18	14-15	Teaching		19 th March to 28 th March 2018
19	15	Conclusion of Teaching		28 th March 2018 (Wed)
20	15	Mahavir Jayanthi, Good Friday		29 th and 30 th Mar 2018
21	16	Prelim Exam (25 Marks / 1 hour/ Units V & VI) **		2 nd April to 6 th April 2018(Mon- Fri)
22	17	Declaration of Result of Prelim Exam		9 th April 2018
23	17	Mock Practical & Final Submission		9 th & 10 th April 2018
24	17	Issue of Term Grant Certificate to All Clear Students in Prelim Exam & Mock Practical		10 th April 2018
25		University Examinations: A.) Practical/Oral		11 th to 23 rd April 2018
		B.) Theory		2 nd to 29 th may 2018
26		Start of Second Term		18 th June 2018

* 50% Submission should be completed & duly certified by the Faculty & HOD.

** 25 marks for unit 5& 6 as per Savitribai Phule Pune University Pattern.

Note: 1. AMCAT Test-.2. ET-I, 3. ET-II As per Schedule

All these activities need to be incorporated in the Departmental Academic calendar.

- Attendance will be displayed on the 2nd day of every month.
- Holidays as per Circular from Savitribai Phule Pune University and STES Circulars.
- For STP, T & P activities students should refer departmental notice boards.



(Dr. M. S. ROHOKALE)
PRINCIPAL



SKN SINHGAD INSTITUTE OF TECHNOLOGY & SCIENCE, LONAVALA
ACADEMIC CALENDER/ TE/BE- 2017-18/SEMESTER –II

Sr. No	Week No.	Particulars	No. of days	Date & Day
01	01	Commencement of Teaching		18 th Dec 2017(Mon)
02	01-02	Registration ,VAP		18 th -29 th Dec 2017
03	03-04	Teaching,VAP		1 st Jan -12 th Jan 2018
04	05	Teaching ,Spandan 2018		15 th Jan to 19 th Jan 2018,18 th & 19 th Jan 2018 (Spandan 2018)
05	06	Unit Test-I (30 Marks / 1hour/2 Units-1 and 2) &Teaching		22 nd Jan-25 th Jan 2018(Mon to Thru)
06	06	Republic Day		26 th Jan 2018(Fri)
07	07	Declaration of Result of Unit Test-I & Teaching		29 th Jan 2018 (Mon)
08	07-08	Remedial classes for Unit Test-I & Teaching & Midterm submission *		29 th Jan 12 th Feb 2018
09	09	Mahashivaratri		13 th Feb 2018(Tue)
10	09-10	Neon & Techtonic 2018, Alumni Meet		15 th Feb to 22 nd Feb 2018,18 th Feb 2018
11	10	Shivajijayanthi		19 th Feb 2018(Mon)
12	10	Teaching		23 rd Feb 2018
13	11-12	Unit Test-II (30 Marks / 1 hour / 2 Units-1,2,3) & Teaching		26 th Feb to 1 st March 2018(Mon to Fri)
		Holi		2 nd March 2018 (Fri)
		Declaration of Result of Unit Test-II & Teaching		5 th March 2018 (Mon)
14	12	In Sem Exam / SPPU (30 Marks / 1hour / Units: 1,2 & 3)		6 th March to 10 th March 2018
15	13	Remedial classes for Unit Test-II & Teaching and Mid Term Submission* & Teaching		12 th March to 16 th March 2018
16	13	Parent meet		16 th March 2018
17	14-15	Teaching and Project Exhibition(BE)		19 th to 28 th March , 23 rd March 2018
18	15	Conclusion of Teaching		28 th March 2018 (Wed)
19	15	Mahavir Jayanthi, Good Friday		29 th and 30 th Mar 2018
20	16	Prelim Exam (70Marks / 3hours/ All 6 units) **		2 nd April to 6 th April 2018(Mon- Fri)
21	17	Declaration of Result of Prelim Exam		9 th April 2018
22	17	Mock Practical & Final Submission		9 th & 10 th April 2018
23	17	Issue of Term Grant Certificate to All Clear Students in Prelim Exam & Mock Practical		10 th April 2018
24		University Examinations: A.) Practical/Oral		11 th to 23 rd April 2018
		B.) Theory		2 nd to 29 th may 2018
25		Start of Second Term		18 th June 2018

* 50% Submission should be completed & duly certified by the Faculty & HOD.

** 20 marks for unit 1,2 & 3 and 50 marks for 3 units as per Savitribai Phule Pune University Pattern.

Note: : 1. AMCAT Test-.2. ET-I, 3. ET-II As per Schedule

All these activities need to be incorporated in the Departmental Academic calendar.

1. Attendance will be displayed on the 2nd day of every month.
2. Holidays as per Circular from Savitribai Phule Pune University and STES Circulars.
3. For STP,T &P activities students should refer departmental notice boards.



(Dr. M. S. ROHOKALE)
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ANNEXURE II

FEEDBACK FROM THE STAKEHOLDERS:

The institute collects feedback and document responses on curriculum from the stakeholders through various channels. The institute collects feedback from the stakeholders in enriching the curriculum in the following manner:

Feedbacks are taken from students during the semester

Feedbacks are taken during alumni meet.

During parents meet and placement activities, Parents and Employer's feedbacks are collected.

External examiner appointed by SPPU gives feedback regarding projects and academics. Another source of feedback for the Institute authorities is Student's Council. Areas of concern, if any, from the student's point of view, is noted by the council and places them before the Principal for necessary action.

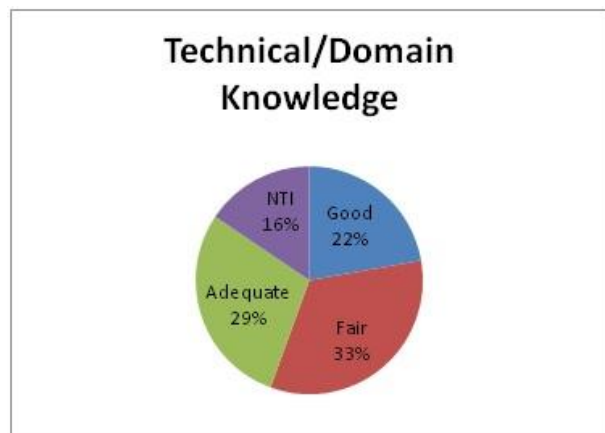
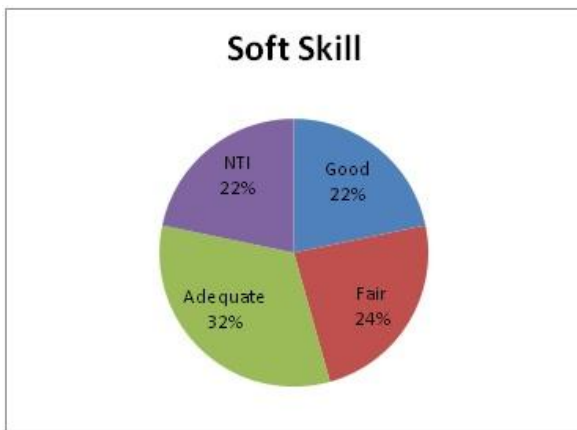
Exit surveys are conducted

Inputs received from all the stakeholders are used to improve the quality of curriculum and enrichment programme. A summarized table of feedback collected from industry and alumni is shown below.

1. Feedback from the Industry

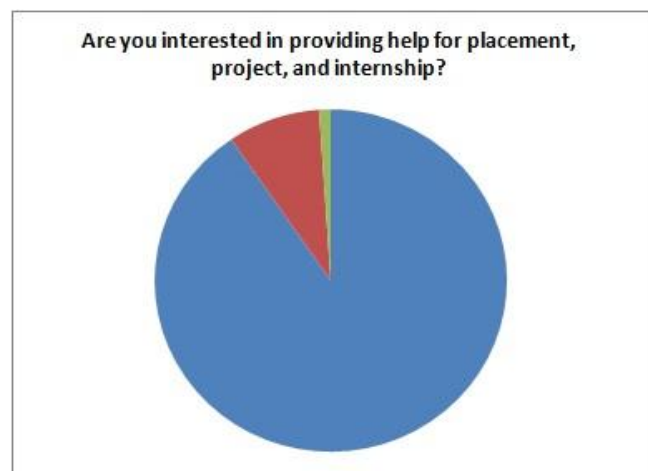
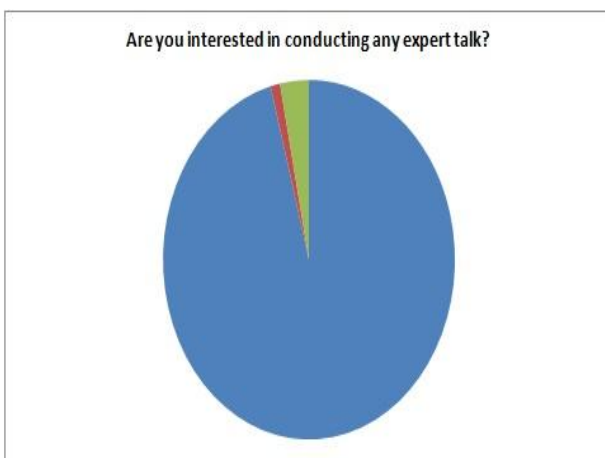
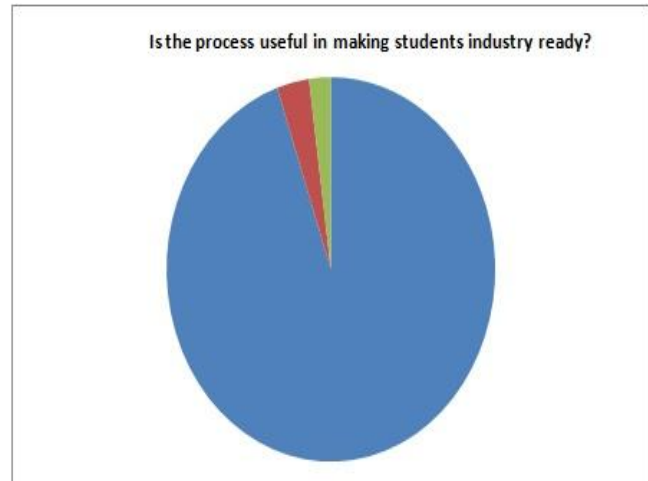
Company name	Communication				Technical/Domain Knowledge			
	Good	Fair	Adequate	NTI	Good	Fair	Adequate	NTI
Piaggio			1			1	1	
Atlas Copco		1						1
Force Motors			1				1	
Inautix		1		1			1	
Cognizant			1		1			
Accenture			1				1	
Bosch chasses System India Ltd			1					1
Workz media	1					1		
GKN Sinters Metal		1				1		
Thorohood accociates pvt. Ltd.			1				1	
Bekqert India pvt ltd.		1				1		
EQ technology				1			1	
Invitable solutions		1						1
Everest web solutions	1				1			
Akallya kale			1				1	
Infostretch Pvt ltd.	1			1	1			
Millenium semiconductor			1					1
Screenmagic mobile media pvt ltd.				1		1		
Bekaert		1				1		
Workz media	1		1		1			

EQ technology	1							1
Cognizant		1		1		1		
TATA Technology						1		
Inautix		1	1				1	
Tech Mahindra	1					1		
L&T Infotech				1		1		
Accenture	1					1		
Mindtree					1			
ACI worldwide				1			1	
Enhance software solutions pvt ltd	1					1		
Mahindra & Mahindra Ltd			1				1	
KPIT Cummins		1					1	
Synechron Technology				1			1	1
Joshi Jhampala			1				1	
Amdocs	1				1			
Paragyte technology pvt ltd.			1	1	1	1		
ICICI securities ltd		1			1			
Helium consulting pvt ltd			1		1			
Jonhson control			1			1		
Webonise labs	1							1
Persistent pvt ltd				1	1			
Oracle OFSS		1				1		
SUM	10	11	15	10	10	15	13	7



2. Feedback from the Alumni

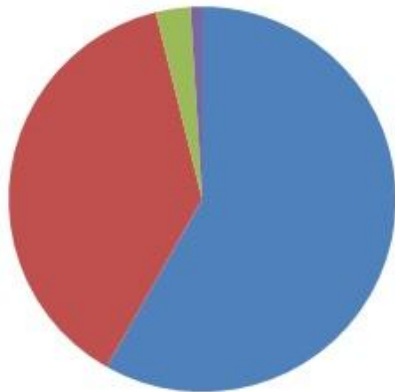
Parameters for Evaluation	Responses		
	Yes	No	Partially / Don't Know
Are you are happy about teaching learning process at SKNSITS, Lonavala	87	2	5
Is the process useful in making students industry ready?	89	3	2
Are you interested in conducting any expert talk?	90	1	3
Are you interested in providing help for placement, project, and internship?	85	8	1
Any Suggestion to overcome the industry student gap.	30 suggestions		



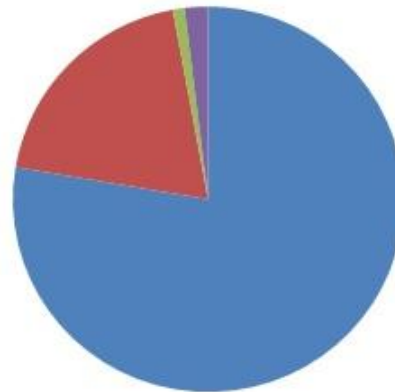
3. Feedback from the Parents

SR NO	QUESTION	EXCELENT	GOOD	SATISFACTORY	POOR
1	Progress of your ward	60	39	3	1
2	Teaching Standard	80	20	1	2
3	Facilities available	92	8	3	0
4	Personal attention of Faculties / TG	70	28	5	0

Progress of your ward



Teaching Standard



Facilities available



Personal attention of Faculties / TG



ANNEXURE III

BEST PRACTICE

Best Practice I: Project Based Learning Environment.

Goal: For achieving effective learning by students.

The Context: Learning happens only when one performs tasks on his own.

The Practice:

Students are encouraged to pick up a project in small groups in the representative list of areas prepared by the department or by him. They are required to go through a structured process of analysing the problem, solution development and implementation.

Student projects are then evaluated by merit.

Necessary feedback is given to students.

Institute has developed various schemes such as Lab innovations, VAP, and IIC, which promote learning through projects.

Evidence of success: PBL shows improvement in understanding and confidence about core concepts among students. It also helps in achieving skills required for the professional practice.

A problem encountered and resources required: PBL

It was realised that it is a time consuming process as grouping and problem identification according to the students' mind-set is a tedious task. The traditional assumptions and stereotype problem solving methods forms a big barrier. Path away must be provided for out of the box thinking. With heavily packed syllabus and schedule, the PBL becomes an information overload. Evaluation of students gets difficult and new assessment methods must be evolved.

Ex. A PBL model developed to maintain student information record of department is given below

Project Title: Department maintains a student information record. The file contains roll number, name, division and address. Allow user to add, delete information of student. Display information of particular employee. If record of student does not exist an appropriate message is displayed. If it is, then system displays the student details. Use Sequential file to maintain the data.

Aim: To understand file handling concept.

Objectives:

1. To understand concept of sequential file organization.
2. To understand the all operations of file handling using sequential organization. PRE REQUISITE:

PRE REQUISITE:

Linux Operating System with GCC Compiler installed or and Integrated Development Environment for C++ or Windows OS with any IDE such as Turbo C++, Eclipse, Visual Studio, Bloodshed C++ etc.

PROGRAM EXECUTION STEPS:

- Display the List of Functions to User
- Ask user what operation does he wants to perform
- Take user input for a switch case which consists of :
 1. Display/Read
 2. Insert
 3. Update
 4. Delete
 5. Search
 6. Exit
- We will take user input to perform an operation
- Initially while performing any operation for the first time we will create a file it it doesn't exist
- Display function will display all the records
- If user wants to insert data then we will take Name, Roll no, Address, Division as input
- Updating and deletion requires the roll no of Student as it is a primary key
- If a roll number is missing, then appropriate message will be shown

Output:

```
1)Read(Print)
2)Insert
3)Delete
4)Update
5) Search
6)Quit
Enter Your Choice:2

Enter a record to be inserted (roll no,name,division, address) : 41 Gagandeep B Mumbai
Inserted

1)Read(Print)
2)Insert
3)Delete
4)Update
5) Search
6)Quit
Enter Your Choice:2

Enter a record to be inserted (roll no,name,division, address) : 37 Apurva B Pune
Inserted

1)Read(Print)
2)Insert
3)Delete
4)Update
5) Search
6)Quit
Enter Your Choice:1
```


Picture while taking User input

```
1)Read(Print)
2)Insert
3)Delete
4)Update
5) Search
6)Pack
7)Quit
Enter Your Choice:1

***** Data File *****

-----
Roll No : 37
Name : Apurva
Division : B
Address : Pune
-----
Roll No : 41
Name : Gagandeep
Division : B
Address : Mumbai
-----
```

Displaying the data of file

Conclusion: Group of 5 students has executed the file handling operations using sequential file organization successfully.

Best Practices II: Paperless governance with GEMS

Goal: The Institute implemented paperless governance through MIS software system – GEMS. With the help of this system, all the academic processes of Institute are automated.

The Context: Every faculty and staff are allotted an individual login ID through GEMS. The processes like AC, faculty leave management, faculty appraisal, student feedback and placement activities are operational and followed by every faculty and the staff members of Institute.

The Practice:

Academics: For every semester faculty members upload their academic calendar, timetable, teaching plan of the subject, notes, schedules of examinations, attendance, etc.

Leave Management: Faculty can apply for all the types of leaves with necessary alternative arrangements. These leaves are approved by Admin, HOD, Principal and management.

Faculty appraisal and student feedbacks: Every semester faculty feedback is taken from students. Academic performance of faculty is evaluated through the GEMS annually.

Placement activities: All the students are registered on GEMS and they fill their academic data online. The placement officer makes the announcements of placement activities and furnishes the required student's data to the company's online.

Evidence of success: The lesson plan of the respective subject is available based on which the lectures are planned. Accordingly, the attendance has been monitored. The reports of placement activity are generated as per the requirements of the company.

A problem encountered and resources required: GEMS systems run on a variety of computer hardware and network configurations, typically using a database as an information repository. Installation of the system with necessary application and data integration is difficult on various configurations of PCs. Conversion of the previous manual system into equivalent software system is not only difficult but also exhibits strong oppose from various cadres of employees. Therefore, extensive training is necessary for employees with strong convincing ability.

The institutional resources required for implementation of GEMS are as follows:

Budgetary requirement for training of employees

GEMS upgradation software

PCs with the latest configuration.

Best Practices III: STP to enhance employability skill

Goal: Worldwide, the advancement in technology has not only revolutionised the scope of engineering education but also redefined the expectations from engineering graduates. At SKNSITS, a need was identified to start an innovative practice "Student Training Program" that would help the students to build a personality equipped with excellent technical and soft skills. With this in mind, a state-of-the-art STP is being implemented from the year 2013-14. The aim of the program is to enhance the quality of the students by empowering them with skills those are globally at par.

The Objectives of the STP are to:

Enhance the employability opportunity.

Prepare students for entrepreneurship.

Prepare students for higher education in India and abroad.

The Context:

Integration into the Curriculum: Training incorporated into the curriculum to help students for preparation and self - evaluation in technical and soft skills.

Lecture recordings: Subject wise lectures are recorded by expert faculty on K-point server. This is a LAN based resource to help the students to learn and revisit the concepts discussed in class earlier.

Expert faculty: A good blend of the classroom and hands-on training provided by expert faculty.

AMCAT assessment: Training need and outcome assessed using AMCAT, a test preferred by many well-known industries globally.

The Practice: The duration of STP is 120 hours that spread over five semesters as STP I-V. It is to be undertaken by the student from the start of the second year of engineering. The details of the program are explained in Section 1.2.3, Criterion I.

Evidence of success: Implementation of STP has shown a remarkable effect on placement activity. Also, students can crack professional examinations conducted by industries, government agencies, civil services, etc. This unique activity is appreciated by industries and alumni.

Problems Encountered and Resources Required: The VAP is required to be conducted in parallel with regular academics. Therefore, extra sessions from industry experts are normally arranged on weekends. Industry experts and corporate trainers charge heavily to the students for professional training. Extra-budgetary provisions to conduct such training become essential otherwise students pay on their own.

However, it is necessary to give VAP inputs to the students to cope up with industrial requirements and make them ready for placement.

The institutional resources used to conduct STP and VAP are as follows:

Budgetary requirement for VAP

Classroom with LCD and multimedia facility

Software for ET and QA/LR

Internet facility to conduct AMCAT

IT infrastructure for hands-on training

Library with necessary e-resources, journals and books.

Abbreviations

AAU	Aalborg University
ACES	Association of Computer Engineering Students
AMC	Academic Monitoring Committee
AICTE	All India Council for Technical Education
AMCAT	Aspiring Minds Computer Adaptive Test
BOS	Board of Studies
CAP	Centralized Admission Process
CAS	Career Advanced Scheme
CCD	Café Coffee Day
CEO	Chief Examination Officer
CBCS	Choice Based Credit System
CLOs	Course Learning Outcomes
CoE	Centre of Excellence
CTC	Corporate Training Centre
DTE	Directorate of Technical Education
EDC	Entrepreneurship Development Cell
EKC	Engineering Knowledge centre
ETP	Enhancement Training Program
EPF	Employee Provident Fund
ERP	Enterprise Resource Planning
EU	European Union
FDP	Faculty Development Program
FDPs	Faculty Development programmes
GATE	Graduate Aptitude Test for Engineering
GD	Group Discussion
GEMS	Governing Educational Management System
GISFI	Global ICT Standardization Forum for India
HOD	Head of Department
ICEM	Indira College of Engineering and Management

IETE	Institute of Electronics and Telecommunication Engineers
IIIC	Industry Institute Interaction Cell
IQAC	Internal Quality Assurance Cell
IQAS	Internal Quality Assurance System
ISP	Internet Service Provider
ISR	Institutional Social Responsibility
JAES	Journal of Advances in Engineering Science
LIC	Local Inspection Committee
MESA	Mechanical Engineering students Association
MITAE	MIT Academy of Engineering
MNC	Multinational Company
MoUs	Memoranda of Understandings
NAAC	National Assessment and Accreditation Council
NPTTEL	National Programme on Technology Enhanced Learning
NSS	National Service Scheme
OPAC	Online Public Access Catalogue
OS	Office Superintendent
PBL	Project Based Learning
PEOs	Program Educational Objectives
PI	Personal Interview
PLOs	Programme Learning Outcomes
POs	Programme Outcomes
PPP	Profile and Project Presentation
PWD	The Persons With Disabilities Act
QA- LR	Quantitative Aptitude – Logical Reasoning
R&D	Research & Development
RHTC	Rural Health Training Centre
SETU	School of Enterprises Tie-Up
SIT	Sinhgad Institute of Technology
SLS	Self Learning Session
SPPU	Savitribai Phule Pune University

SSR	Self Study Report
STES	Sinhgad Technical Education Society
STP	Student Training Program
SWOC	Strength Weakness Opportunity Challenges
T&P	Training & Placement
TAP	Teacher's Advancement Program
TFWS	Tuition Fee Waiver Scheme
TG	Teacher-Guardian
TTT	Train The Trainers
VAP	Value Addition Program
WSN	Wireless Sensor Network