



YEARLY STATUS REPORT - 2020-2021

Part A

Data of the Institution

1.Name of the Institution	
	SINHGAD TECHNICAL EDUCATION SOCIETY'S SINHGAD COLLEGE OF ENGINEERING
• Name of the Head of the institution	DR. S. D. LOKHANDE
• Designation	PRINCIPAL
• Does the institution function from its own campus?	Yes
• Phone no./Alternate phone no.	02024354705
• Mobile No:	9822335468
• Registered e-mail	principal.scoe@sinhgad.edu
• Alternate e-mail	sdlokhande.scoe@sinhgad.edu
• Address	44/1, Vadgaon (Budruk), Off Sinhgad Road
• City/Town	PUNE
• State/UT	MAHARASHTRA
• Pin Code	411041
2.Institutional status	
• Type of Institution	Co-education
• Location	Urban

• Financial Status	Self-financing				
• Name of the Affiliating University	SAVITRIBAI PHULE PUNE UNIVERSITY (SPPU), PUNE				
• Name of the IQAC Coordinator	DR. KALPANA S. JOSHI				
• Phone No.	02024100183				
• Alternate phone No.	9881230157				
• Mobile	9881274525				
• IQAC e-mail address	hodbiotech.scoe@sinhgad.edu				
• Alternate e-mail address	viceprincipal.scoe@sinhgad.edu				
3.Website address (Web link of the AQAR (Previous Academic Year)	http://cms.sinhgad.edu/sinhgad_engineering_institutes/vadgaon_scoe/iqac.aspx				
4.Whether Academic Calendar prepared during the year?	Yes				
• if yes, whether it is uploaded in the Institutional website Web link:					
5.Accreditation Details					
Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	A	3.25	2017	23/01/2017	22/01/2022
6.Date of Establishment of IQAC			28/08/2017		
7.Provide the list of funds by Central / State Government UGC/CSIR/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.,					
Institutional/Department /Faculty	Scheme	Funding Agency	Year of award with duration	Amount	
Biotechnology Engineering	Research Project	Science and Engineering Research Board, SERB, Government of India, New Delhi	30 June, 2020 for 24 months	2772560	

8. Whether composition of IQAC as per latest NAAC guidelines	Yes	
<ul style="list-style-type: none"> • Upload latest notification of formation of IQAC 	No File Uploaded	
9. No. of IQAC meetings held during the year	4	
<ul style="list-style-type: none"> • Were the minutes of IQAC meeting(s) and compliance to the decisions have been uploaded on the institutional website? 	No	
<ul style="list-style-type: none"> • If No, please upload the minutes of the meeting(s) and Action Taken Report 	View File	
10. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No	
<ul style="list-style-type: none"> • If yes, mention the amount 		
11. Significant contributions made by IQAC during the current year (maximum five bullets)		
<p>1. Faculty and students have attended various online workshops, seminars, conferences 2. Online teaching strengthened 3. Covid safety measures implemented</p>		
12. Plan of action chalked out by the IQAC in the beginning of the Academic year towards Quality Enhancement and the outcome achieved by the end of the Academic year		

Plan of Action	Achievements/Outcomes
To strengthen online teaching requirements	1. Microsoft teams platform was finalized for the online teaching 2. Training was conducted for Microsoft Teams coordinator 3. M-Teams accounts were opened for Faculty and students. 4. Online trainings conducted for students and faculty
To use ILTB Virtual Lab platform for online practical	1. SCOE Nodal center ranked top for Sem I among 245 nodal centers across the nation.
To conduct online In-sem examination using google forms or myexamo portal	Online In-Sem examinations were conducted successfully
To achieve covid safety for students and staff	1. Training program for sanitization and disinfection for supporting staff was conducted 2. Posters for Covid prevention were displayed in each building 2. Time Table for sanitization of class rooms and common areas was made and implemented by HoDs
Discussion on revised plan of SSR and its submission by Dec 2021	1. Criteria in charges have been appointed 2. Collection of data and preparation of SSR is in process
13. Whether the AQAR was placed before statutory body?	Yes
<ul style="list-style-type: none"> Name of the statutory body 	
Name	Date of meeting(s)
Academic monitoring committee	02/06/2021
14. Whether institutional data submitted to AISHE	

Year	Date of Submission
2020	29/02/2020
Extended Profile	
1.Programme	
1.1 Number of courses offered by the institution across all programs during the year	584
File Description Data Template	Documents View File
2.Student	
2.1 Number of students during the year	5442
File Description Data Template	Documents View File
2.2 Number of seats earmarked for reserved category as per GOI/ State Govt. rule during the year	675
File Description Data Template	Documents View File
2.3 Number of outgoing/ final year students during the year	1416
File Description Data Template	Documents View File
3.Academic	
3.1 Number of full time teachers during the year	265
File Description Data Template	Documents View File
3.2 Number of Sanctioned posts during the year	265
File Description Data Template	Documents View File
4.Institution	
4.1 Total number of Classrooms and Seminar halls	66
4.2 Total expenditure excluding salary during the year (INR in lakhs)	--
4.3 Total number of computers on campus for academic purposes	1046

Part B

CURRICULAR ASPECTS

1.1 - Curricular Planning and Implementation

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

Sinhgad College of Engineering is a non-aided private Engineering College, founded under the aegis of Sinhgad Technical Education Society(STES), affiliated to Savitribai Phule Pune University (SPPU), Pune, and approved by AICTE. The college strictly adheres to the curriculum prescribed by SPPU

Effective curriculum delivery is ensured through a transparent process as given below:

1. Academic calendar in line with the academic calendar given by SPPU
2. Before the beginning of every semester by considering teachers' choice of subjects a fair load distribution carried out.
3. The class time tables are prepared in such a way that the requirement of the theory and practical subjects and also include the periods for Training and Placement activity.
4. Syllabus completion review is taken from time to time.
5. Guest lectures, alumni interactions and career guidance by experts.
6. Regular feedback from students for teachers conducted and analyzed.

File Description	Documents
Upload relevant supporting document	View File
Link for Additional information	Nil

1.1.2 - The institution adheres to the academic calendar including for the conduct of Continuous Internal Evaluation (CIE)

1. The Semester of any academic year begins with adherence to the well planned academic calendar for the proper continuous internal evaluation.

2. Unit test , mock practical test , quiz are conducted.

3. Progressive practical internal assessment record maintained based on regularity in the practical, presentation of the performance and understanding.

4. Term Work evaluation carried out based on above parameters which ensures that students get the marks they deserve based on their academic performance throughout the semester.

File Description	Documents
Upload relevant supporting documents	View File
Link for Additional information	Nil

1.1.3 - Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the year. Academic council/BoS of Affiliating University Setting of question papers for UG/PG programs Design and Development of Curriculum for Add on/ certificate/ Diploma Courses Assessment /evaluation process of the affiliating University

A. All of the above

File Description	Documents
Details of participation of teachers in various bodies/activities provided as a response to the metric	View File
Any additional information	No File Uploaded

1.2 - Academic Flexibility

1.2.1 - Number of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented

1.2.1.1 - Number of Programmes in which CBCS/ Elective course system implemented

16

File Description	Documents
Any additional information	No File Uploaded
Minutes of relevant Academic Council/ BOS meetings	No File Uploaded
Institutional data in prescribed format (Data Template)	View File

1.2.2 - Number of Add on /Certificate programs offered during the year

1.2.2.1 - How many Add on /Certificate programs are added during the year. Data requirement for year: (As per Data Template)

41

File Description	Documents
Any additional information	No File Uploaded
Brochure or any other document relating to Add on /Certificate programs	No File Uploaded
List of Add on /Certificate programs (Data Template)	View File

1.2.3 - Number of students enrolled in Certificate/ Add-on programs as against the total number of students during the year

1889

1.2.3.1 - Number of students enrolled in subject related Certificate or Add-on programs during the year

1889

File Description	Documents
Any additional information	No File Uploaded
Details of the students enrolled in Subjects related to certificate/Add-on programs	View File

1.3 - Curriculum Enrichment

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

The current curriculum has integrated all the above issues through core, elective and audit courses.

Courses to address Environment and Sustainability:

The curriculum includes various courses that address the environment, concern for the environment, and awareness of environmental hazards. For example, the first year B.E. program consists of a mandatory audit course in the semester on 'Environmental Studies' (based on the AICTE mandatory guideline). In addition to this, compulsory audit courses at 2nd, 3rd and 4th year level has been incorporated by the university in all programs, e.g. Water Management, Ecology and Environment, Ecology and Society, Science-Technology and Society, Green Construction and Design, Smart Cities, Sustainable Energy Systems, Energy Resources, Economics and Environment, Non-Conventional Energy Resources, Industrial Safety and Environment Consciousness, Green Computing, Sustainable energy systems, Urbanization and Environment, Environmental & Resource Economics, Environment and Development. Apart from this, there are core and elective courses to Biotech, Civil, Chemical, and Mechanical programs such as Environmental Biotechnology, Bioenergy and Renewable Resources, Environmental Engineering, Water Supply Engineering, Hydrology and water resources engineering, Energy Audit and Management, Solar and wind energy, Energy engineering, etc.

Courses to address Professional Ethics and Human Values:

For almost all programs, these courses are offered as mandatory audit courses such as - Leadership and Personality Development, Professional Ethics and Etiquettes, Essence of Indian Traditional Knowledge, Humanity and Social Sciences, Social Awareness and Governance Program, Intellectual Property Rights and Patents, Emotional Intelligence, Human Behaviour, Globalization and Culture, Patent Law for Engineers and Scientists, Principles of Human Resource Management, Business Ethics, Disaster Management, etc.

In addition to enriching the curriculum by integrating cross-cutting issues, the institute takes additional efforts through NSS unit to alert the students about Human values, Ethics, Environment and Gender awareness. NSS organizes various social events such as Blood donation camp, Tree plantation, teaching rural children, "Police Mitra" during Ganesh festival, Eco-friendly Ganesh Visarjan camp, Road Safety, etc. The institute provides equal opportunities to boys and girls in all types of student activities organized. The institute conducts a mega event called "Sinhgad Karandak" every year, which includes cultural and technical competitions involving equal participation of boys and girls. Special programs for girl students are arranged towards achieving Women Empowerment. The institute has established a 'women anti-harassment' cell to

sensitize the students and employees. The objective of the cell is to handle gender issues, make them aware of the social, moral, and legal implications of gender discrimination, encourage value education upholding gender equality, and at the same time deal with instances of sexual harassment on campus. The institute "SC-ST Cell" is also functioning well. Awareness programs and events are organized on national and international days of importance such as World Water Day, World Environment Day, World Health Day, World Cancer Day, World AIDS Day, International Women's Day, Mother's Day, Teachers Day, Engineers Day, Republic Day, Independence Day, Yoga Day, Sports Day etc.

File Description	Documents
Any additional information	No File Uploaded
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum	View File

1.3.2 - Number of courses that include experiential learning through project work/field work/internship during the year

39

File Description	Documents
Any additional information	View File
Programme / Curriculum/ Syllabus of the courses	View File
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	View File
MoU's with relevant organizations for these courses, if any	No File Uploaded
Number of courses that include experiential learning through project work/field work/internship (Data Template)	View File

1.3.3 - Number of students undertaking project work/field work/ internships

5279

File Description	Documents
Any additional information	No File Uploaded
List of programmes and number of students undertaking project work/field work/ /internships (Data Template)	View File

1.4 - Feedback System

1.4.1 - Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders Students Teachers Employers Alumni

A. All of the above

File Description	Documents
URL for stakeholder feedback report	No File Uploaded
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management (Upload)	View File
Any additional information(Upload)	No File Uploaded

1.4.2 - Feedback process of the Institution may be classified as follows

B. Feedback collected, analyzed and action has been taken

File Description	Documents
Upload any additional information	No File Uploaded
URL for feedback report	Nil

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment Number Number of students admitted during the year

2.1.1.1 - Number of sanctioned seats during the year

1350

File Description	Documents
Any additional information	No File Uploaded
Institutional data in prescribed format	View File

2.1.2 - Number of seats filled against seats reserved for various categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy during the year (exclusive of supernumerary seats)

2.1.2.1 - Number of actual students admitted from the reserved categories during the year

795

File Description	Documents
Any additional information	No File Uploaded
Number of seats filled against seats reserved (Data Template)	View File

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses the learning levels of the students and organizes special Programmes for advanced learners and slow learners

The teaching-learning process of the Institute goes on in a regular manner in each semester. The students are being assessed through the internal as well as external assessment criteria systematically. However, it is realized that every student is different and everyone has different capabilities. Such students are in general classified into two categories. These are slow learners and advanced learners.

These students are identified through various parameters such as -

- Continuous assessments
- Attendance /regularity
- University results
- Discretion of teacher based on live teaching
- Regular assignments and tests

Once such slow learner students are identified, they are taken care specially through various efforts

and well supported. These efforts are -

- Remedial/extra classes & practicals

- Assignments
- Counselling & motivation by subject teachers, class teachers & guardian teachers
- Communication with parents
- For economically weaker students making aware of different scholarships, schemes, provisions

for earn & learn etc.

Similarly, the advanced learner students are well supported through various methodologies so they

should excel in a professional way. These techniques are listed below -

- Exposure to various inter & intra collegiate competitions
- Promotion in co-curricular & extracurricular activities & competitions
- Opportunity to prepare for global certifications
- Opportunity to value-added training programs
- To promote for internships
- Industry-sponsored projects
- Research and e-learning material like Course-era, NPTEL
- Motivation to achieve higher performances in their summative assessments by felicitation
- Motivation to pursue higher studies and research: Motivation for GATE, CAT/GRE and other

examinations by providing Letter of Recommendations (LOR)

- Sinhgad Overseas cell- creating awareness regarding programs offered by foreign universities
- Motivation for Paper presentations
- One to one personal motivation & care
- Extra efforts in laboratories for more practice
- Participation in departmental/Institutional events
- Organization of departmental/Institutional events

File Description	Documents
Link for additional Information	Nil
Upload any additional information	No File Uploaded

2.2.2 - Student- Full time teacher ratio (Data for the latest completed academic year)

Number of Students	Number of Teachers
5442	265

File Description	Documents
Any additional information	No File Uploaded

2.3 - Teaching- Learning Process

2.3.1 - Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

The development of the students in multiple dimensions is necessary for professional engineering education. These dimensions help the students to excel in Industrial jobs, Entrepreneurship - Start-Ups, Higher education, etc. With this view, in addition to the traditional teaching-learning methods, the Institute provides innovative student-centric methods such as experimental learning, participative learning and problem-solving techniques. Various events, efforts taken in this direction are listed below -

1. Competitions such as Hackathons
2. Internships in Industries
3. Various Clubs/IEEE/BAHA/HYPEREN/Civil services/Entrepreneur/etc.
4. Students' Chapters
5. Industrial visits
6. Techtonic - Technical activities/events
7. Workshops /Seminars
8. Exposure to Virtual Lab environment through a tie-up with IIT Bombay
9. Review of web literature
10. Guest lectures
11. Group Discussions/Debates
12. Peer learning groups
13. Massive Open On-Line Courses (MOOCs), IIT spoken tutorials, NPTEL, etc.
14. Students Training Programs (STP)
15. Project-based learning
16. Establishment of Industry collaborative laboratories
17. Participation in Research projects - Innovation/ Avishkar activities of the University.
18. Poster/paper presentations

The students participate/undergo different kinds of activities as

planned methodological efforts so as to explore their professional capabilities.

File Description	Documents
Upload any additional information	No File Uploaded
Link for additional information	Nil

2.3.2 - Teachers use ICT enabled tools for effective teaching-learning process. Write description in maximum of 200 words

Response:

Along with the traditional classroom teaching, the Institute adopts Information and Communication Technology (ICT) enabled teaching-learning process by providing the required infrastructure. To enhance the learning experience of the students the state-of-the-art educational methodologies are used by faculty members to make teaching-learning a joyful experience.

- For all the programs the institute has ICT enabled classrooms. These classrooms include multimedia teaching aids such as LCD projectors, Wi-Fi/ internet connection, computer/laptop, audio system etc.
- The institute inspires the faculty members to use these recent teaching tools. These tools are PowerPoint Presentations (PPTs), related videos, animations, free online resources etc. to deliver the lectures to create interest among the students, thus improving the effectiveness of the teaching-learning process.
- Virtual laboratories and free online tools such as Compilers, SCILAB, Autocad are used for conducting laboratory sessions.
- The institute has separate seminar halls for almost all the majority programs and also has an auditorium equipped with multimedia facilities. Expert sessions, invited talks, seminars and workshops are conducted frequently in these seminar halls. The emphasis is given on the interaction of students in terms of research paper presentations, debates, group discussions. With the help of ICT enabled tools Communication skill classes/Mock tests are conducted which help the students to face the campus interviews.
- Swayam /NPTEL/MOOC, Virtual laboratory, SPOKEN TUTORIAL-IIT Bombay such online resources are made available to the students. To demonstrate this, audio-visual tools are

effectively exploited by the faculty members. The Institute had the highest usage of Virtual Laboratory (V-Lab) at the National level.

- Any course through Swayam/ NPTEL is integrated into the curriculum and made mandatory for an audit course. The student is awarded a grade as AP on successful completion of the audit course.
- The library has subscriptions to a vast number of e-journals and magazines in the area of Engineering, Management, Science and Technology.
- Due to the COVID-19 pandemic situation, it was necessary for the faculty members to switch from the traditional chalk and board teaching-learning method to the online mode. Faculty members have fluently adopted various Platforms such as Zoom, Google Meet, Microsoft Teams, etc. The Institute has the official credentials of Microsoft teams.
- Google / Microsoft platform was efficiently used to upload video lectures, e-books/e material, assignments, practical submissions and online MCQ tests.
- For the admission process, the institute has implemented ICT enabled online payment of semester fees and hostel charges system.
- Faculty members used social media platforms like Whatsapp and Telegram to connect with the students and parents individually and collectively beyond the classroom for giving extra information and support to students.
- All these multimedia aids made the learning experience of students' interactive, effective and enjoyable.

Table:ICT Facilities available in Institution

Sr. No.	Program	ICT tools available	No ICT enabled classrooms	E resources & techniques used
1.	ALL	LCD, Internet, Wi-Fi, PA System, Laptops, Desktops, MS - Teams, etc.	61	Spoken Tutorials, VLAB, NPTEL, Coursera, VLAB, etc.

File Description	Documents
Upload any additional information	No File Uploaded
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	Nil

2.3.3 - Ratio of mentor to students for academic and other related issues (Data for the latest completed academic year)

2.3.3.1 - Number of mentors

265

File Description	Documents
Upload, number of students enrolled and full time teachers on roll.	View File
Circulars pertaining to assigning mentors to mentees	No File Uploaded
mentor/mentee ratio	No File Uploaded

2.4 - Teacher Profile and Quality

2.4.1 - Number of full time teachers against sanctioned posts during the year

265/265

File Description	Documents
Full time teachers and sanctioned posts for year (Data Template)	View File
Any additional information	No File Uploaded
List of the faculty members authenticated by the Head of HEI	No File Uploaded

2.4.2 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.B Superspeciality / D.Sc. / D.Litt. during the year (consider only highest degree for count)

2.4.2.1 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.C Superspeciality / D.Sc. / D.Litt. during the year

58

File Description	Documents
Any additional information	No File Uploaded
List of number of full time teachers with Ph. D. / D.M. / M.Ch./ D.N.B Super specialty / D.Sc. / D.Litt. and number of full time teachers for year(Data Template)	View File

2.4.3 - Number of years of teaching experience of full time teachers in the same institution (Data for the latest completed academic year)

2.4.3.1 - Total experience of full-time teachers

2232 Years

File Description	Documents
Any additional information	No File Uploaded
List of Teachers including their PAN, designation, dept. and experience details(Data Template)	View File

2.5 - Evaluation Process and Reforms

2.5.1 - Mechanism of internal assessment is transparent and robust in terms of frequency and mode. Write description within 200 words.

Response:

The students undergo Internal and external assessments. An internal assessment carried out by the Institute is a well-set process. The frequency and mode of internal assessments are well defined at the start of the academics so that students plan their studies accordingly. These assessments are carried out by the faculties timely and transparently. The table exploring these assessment ways is given below -

Table: Internal assessment frequency & mode

Sr. No.	Internal Assessment Tool	■	○
1.	■	2-6 per course	○

1.	•	3-6 per course	◦	
1.	Understanding of lab experiments	6-10 per course	•	
1.	Project evaluation	Once/Twice per semester	Through presentations	
1.	Mini project evaluation	Once per semester	Through presentations	
1.	Class tests	2per course	◦	
1.	◦	One per course	•	
1.	•	One per course	◦	
1.	Term work Assessment	Continuously for each experiment in the semester	◦	
1.	Project-based learning	One per semester	•	

Continuous internal assessment of the students is carried out by assigning appropriate weight-age to understand of experiments, presentation in file/journal, regularity in the laboratories, etc. This assessment is transparent and carried out in front of the students in the laboratories. Internal assessment of the project work of final year students is also carried out throughout the academic year. It consists of presentations given by the students

periodically. These presentations and hence project work are evaluated by the panel of faculties. The project guide is a member of the panel. The marks obtained by the students are disseminated in the project group so that students should enhance their work. A similar kind of effort is also applied in the assessment of Mini - Projects.

Project-based learning consists of the identification of the problem, applying thought processes to its probable solutions and showcasing the innovative solution to it.

File Description	Documents
Any additional information	No File Uploaded
Link for additional information	Nil

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

Response:

1. Assessment of Term Work

Term work assessment is the transparent process that consists of evaluation based on regularity, presentation, understanding, etc. The students are evaluated by the faculty in the laboratory itself. The grievance if any are resolved by the faculty immediately.

1. Class tests & Assignments

Class tests are conducted for each theory course twice per semester. The conduction is online/offline mode. Discrepancy or grievance if any is resolved by the faculty and respective committee immediately.

1. Continuous evaluation of projects/Mini projects

Internal assessment of the project work of final year students is also carried out throughout the academic year. It consists of presentations given by the students periodically. These presentations and hence project work are evaluated by the panel of faculties. The project guide is a member of the panel. The marks obtained by the students are disseminated in the project group so that students should enhance their work. Thus the assessment is

transparent and queries if any is resolved by the guide, panel & respective coordinator.

1. Students feedbacks

The online feedback from the students pertaining to teaching, practicals, evaluations, etc. is taken in every semester. The grievance/difficulty if any mentioned by the students is conveyed timely to the respective faculty by the Head of the department and ensured that there will be improvements.

File Description	Documents
Any additional information	No File Uploaded
Link for additional information	Nil

2.6 - Student Performance and Learning Outcomes

2.6.1 - Teachers and students are aware of the stated Programme and course outcomes of the Programmes offered by the institution.

As per the guidelines of the National Board of Accreditation (NBA), an Outcome-based evaluation system is observed by the Institute. Engineering and management programmes follow the program outcomes (POs) as defined by NBA. For all the programs, POs, Programme Specific Outcomes (PSOs), and Course Outcomes (COs) have been articulated.

POs signify the graduate attributes (GA) articulated by the Washington Accord and accepted by the NBA whereas PSOs are specifically defined outcomes of the programme which the learners attain at the end of the programme. After giving a thought process with senior faculty members, head of the department (HoD) and stakeholders two/three PSOs are formalized for each program. The dissemination of these POs and PSOs to the teachers, students and various stakeholders is done through the institute website, posters, during different activities. The list is as follows -

1. Institute Website
2. Student \Faculty notice boards
3. Laboratory notice boards
4. Posters in corridors in each department, administrative areas
5. Laboratory manuals
6. Project workbook
7. Conference proceedings

8. Various activities like FDP/STTP/etc. brochures
9. Dept News Bulletins
10. Faculty Course files
11. Departmental meetings
12. While teaching in the classroom
13. Through various feedback forms
14. Teacher guardian meetings

COs describe the fundamental knowledge skillset about the course that students will be able to acquire at the end of a course. University provides the semester wise syllabus for each programme. Along with the syllabi, for many courses, COs are defined by the University. Generally, the faculty members follow the COs provided by the University, but sometimes COs are modified and redefined timely as per curriculum changes.

In the situation where COs are not provided by the university, considering the guidelines of NBA at each programme, faculty members prepare the same. Using Bloom's taxonomy, the subject teacher prepares the course outcomes in consultation with the Head of the Department. The mapping of every COs with POs and PSOs is done for every course, as COs are the pathway to attain POs and PSOs and thereby the Mission and Vision of the institute.

File Description	Documents
Upload any additional information	View File
Paste link for Additional information	Nil
Upload COs for all courses (exemplars from Glossary)	View File

2.6.2 - Attainment of Programme outcomes and course outcomes are evaluated by the institution.

As mentioned in the earlier sections of SSR, the Program Outcomes (POs) and Course Outcomes (COs) are defined as per the guidelines of the National Board of Accreditation (NBA) and an Outcome-based evaluation system is observed by the Institute. While implementing the programmes with defined POs and COs, care is taken to fulfil the Mission and Vision of the institute.

For any outcome-based system achieving the attainment level of the POs, PSOs, and COs is a key parameter that plays a vital role. This facilitates the development of academic culture among the students. Every program has its own academic monitoring committee which

monitors attendance, teaching-learning process, assessment of the students keeps the track of overall academics.

The following method is used to assess the attainment of course outcomes.

a. Measuring course outcomes attained through Internal assessment

This includes the performance of the student throughout the semester based on Theory/ Practical attendance, regular test exams, assignments, continuous assessment, Term work, etc. Questions in the assessment tools are well mapped with COs for good alignment of COs with POs.

b. Measuring course outcomes attained through University examinations

This consists of a University End-semester examination.

CO Attainment is computed based on the students' performance through the above-mentioned assessment tools. The attainment levels for courses are finalized based on previous results/performances. First, the threshold levels are decided for various courses. Three attainment levels help to compute the level of attainment of each course outcome against the defined threshold. The measurement of attainment is based on the actual percentage of students achieving the threshold percentage of marks or more.

1. If the percentage of students above a threshold level of marks is between 60 - 70 %, then the attainment level is 1.
2. If the percentage of students above a threshold level of marks is between 71 - 80 %, then the attainment level is 2.
3. If the percentage of students above a threshold level of marks is above 80%, then the attainment level is 3.
4. The threshold level of each course is decided by individual programmes.

Final CO attainment is computed considering the performance of the students in the internal assessment and University examination, by giving proper weight-age (30% weight-age of internal assessment and 70% weight-age of University examination) to these two assessment components.

The correlation of POs and PSOs with COs is decided by the subject teachers considering direct attainment and indirect attainment. The computation of direct attainment is from CO attainment (80% weight-

age) whereas indirect attainment is based on stakeholders feedback (20%). For mapping COs with POs and PSOs the correlation Level 1 means slight (low); 2 means moderate (medium) & 3 means substantial (high).

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for Additional information	Nil

2.6.3 - Pass percentage of Students during the year

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

1368

File Description	Documents
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	View File
Upload any additional information	No File Uploaded
Paste link for the annual report	Nil

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire) (results and details need to be provided as a weblink)

http://cms.sinhgad.edu/sinhgad_engineering_institutes/vadgaon_scoe/about.aspx

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Resource Mobilization for Research

3.1.1 - Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the year (INR in Lakhs)

3.1.1.1 - Total Grants from Government and non-governmental agencies for research projects / endowments in the institution during the year (INR in Lakhs)

27.73

File Description	Documents
Any additional information	No File Uploaded
e-copies of the grant award letters for sponsored research projects /endowments	View File
List of endowments / projects with details of grants(Data Template)	View File

3.1.2 - Number of departments having Research projects funded by government and non government agencies during the year

3.1.2.1 - Number of departments having Research projects funded by government and non-government agencies during the year

1

File Description	Documents
List of research projects and funding details (Data Template)	View File
Any additional information	No File Uploaded
Supporting document from Funding Agency	No File Uploaded
Paste link to funding agency website	http://serb.gov.in/srs.php

3.1.3 - Number of Seminars/conferences/workshops conducted by the institution during the year

3.1.3.1 - Total number of Seminars/conferences/workshops conducted by the institution during the year

27

File Description	Documents
Report of the event	View File
Any additional information	No File Uploaded
List of workshops/seminars during last 5 years (Data Template)	View File

3.2 - Research Publications and Awards

3.2.1 - Number of papers published per teacher in the Journals notified on UGC website during the year

3.2.1.1 - Number of research papers in the Journals notified on UGC website during the year

76

File Description	Documents
Any additional information	No File Uploaded
List of research papers by title, author, department, name and year of publication (Data Template)	View File

3.2.2 - Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during the year

3.2.2.1 - Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings during the year

29

File Description	Documents
Any additional information	No File Uploaded
List books and chapters edited volumes/ books published (Data Template)	View File

3.3 - Extension Activities

3.3.1 - Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the year

The institute plays vital role in developing and nurturing social responsibility among the students by organizing the social activities. The institute maintain conducive environment for encouraging the students to participate in the extention activities. Various activities organized by the institute are majorly under National Service Scheme, covering the wide range of aspects in programs like guidance on competative exam preparation to flood relief donation drive. 43 activities were conducted under the extention caterogy with active and huge participation from the students. Follwing are the activities conducted

Tree Plantation and seed ball making.

International Yoga Day

NSS Wari

Swatch Wari

Swasth Wari

Nirmal Wari

Harit Wari

Doctors Day

Prerana Camp

Donation Drive

Kargil Vijay Diwas

Group Discussion And Fun Activity

Organ Donation Awareness And Populism Campaign Week

Mukta Sanvad

New Volunteer Selection and Induction Program

NSS Day

World Tourism Day

Tree Plantation.

Mahatma Gandhi Jayanti

Group Discussion

Webinar on Carrer Guidance for Competitive Exams

Village development Webinar

Mazhe Kutumb Mazhi Jababdaari

Quiz and Fun Activity

National Cancer Awareness Day

Surmayi Diwali

Let's Talk about their Lives (Army Man's)

Blood Donation Activity

Road Saftey and Traffic Awareness Activity

Marathi Rajbhasha Diwas

Group Discussion on Women's Day

Blood and Plasma Donation Webinar

Rainwater Harvesting Webinar

Profile Building Workshop

Camp Working and Memories

Webinar on Mental Health

Online yoga session

Webinar on Financial Literacy

Mukt Sanvaad
 NSS Wari
 Seedball Making
 Tree Plantation
 Flood Relief Donation Drive

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	No File Uploaded

3.3.2 - Number of awards and recognitions received for extension activities from government / government recognized bodies during the year

3.3.2.1 - Total number of awards and recognition received for extension activities from Government/ government recognized bodies during the year

2

File Description	Documents
Any additional information	No File Uploaded
Number of awards for extension activities in last 5 year(Data Template)	View File
e-copy of the award letters	No File Uploaded

3.3.3 - Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., (including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc. and/or those organized in collaboration with industry, community and NGOs) during the year

3.3.3.1 - Number of extension and outreach Programs conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the year

43

File Description	Documents
Reports of the event organized	View File
Any additional information	No File Uploaded
Number of extension and outreach Programmes conducted with industry, community etc for the last year (Data Template)	View File

3.3.4 - Number of students participating in extension activities at 3.3.3. above during the year

3.3.4.1 - Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the year

2651

File Description	Documents
Report of the event	View File
Any additional information	No File Uploaded
Number of students participating in extension activities with Govt. or NGO etc (Data Template)	View File

3.4 - Collaboration

3.4.1 - The Institution has several collaborations/linkages for Faculty exchange, Student exchange, Internship, Field trip, On-the- job training, research etc during the year

875

File Description	Documents
e-copies of linkage related Document	View File
Details of linkages with institutions/industries for internship (Data Template)	View File
Any additional information	No File Uploaded

3.4.2 - Number of functional MoUs with national and international institutions, universities, industries, corporate houses etc. during the year

3.4.2.1 - Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. during the year

9

File Description	Documents
e-Copies of the MoUs with institution./ industry/corporate houses	View File
Any additional information	No File Uploaded
Details of functional MoUs with institutions of national, international importance, other universities etc during the year	View File

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

4.1.1 - The Institution has adequate infrastructure and physical facilities for teaching- learning. viz., classrooms, laboratories, computing equipment etc.

Classrooms: in the institute are furnished, capacious and well ventilated. All the classrooms are equipped with LCD projector, creating the conducive environment for teaching-learning.

Laboratories: Laboratory facilities are as per AICTE norms satisfying the requirements of furniture, carpet area, lighting, and ventilation. These well-equipped laboratories provide adequate experimental set-ups for carrying out experiments as per the University syllabus. Lab assistant/ technical assistant are appointed for every lab for providing constant support and for maintaining the laboratory.

Computing Equipment: Adequate number of working desktop and laptops with latest configuration are available for computation and related purpose. Suitable number of supporting equipment like scanners and printers are available. All the computer systems available are with latest configuration with licensed software installed. The campus is connected to Universal Threat Management (UTM) device through VLAN which provides internet facility of bandwidth 250 Mbps wired link and 45 Mbps Wi-Fi. Additionally, to secure internal LAN Quick Heal antivirus is installed. According to requirement analysis software's are available with every department.

Seminar Hall: College has six well equipped seminar halls with adequate seating capacity, and facilities like with LCD projectors, whiteboards, raised platforms and public-address system with internet facility make the seminar hall suitable for the big

gatherings in the department.

Departmental Library :Every department has the departmental library situated in same building of the department, making convenience to the students and faculties for accessing the test books, referencebooks and project reports etc.

Workshop : Various sections like machine shop, fitting shop, sheet metal shop, welding shop, carpentry and foundry are equipped with conventional machines/tools. Used for conducting practical of Mechanical, Production, Chemical departments.

Drawing hall : Drawing hall is equipped with drawing boards, stools, chalk boards, it is specifically used for the practical having Machine drawing, Engineering graphics, Structural Design, Building Technology and Architecture planning etc wherever drawing sheet is to be used.

Central Library: The central library of college is enriched with 56224 books with 14989 titles of various current as well as syllabi based books of all disciplines of Engineering, Management and Sciences. Along with 4781 reference books, the library also has 131 periodicals. Library has 76 Bound Volumes, mainly of IEEE transactions and ASME journals. The library also possesses 1345 CDs as offline databases. Reading room for students is available 24x7 at central library.

Faculty rooms: Individual/shared faculty rooms are equipped with the required facilities such as LAN connection, furniture etc.

Newspaper at library: English, Marathi newspapers are made available in the in the central library.

Washroom: Adequate Gents and Ladies washrooms are available in every department at proper locations.

Drinking water facility: The college has a water purification and cooling facility at each department and hostels.

Photocopy center, Laundry, Snacks center/Canteen, Bank and ATM, Post office are available in the campus.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

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

Swimming Pool: Swimming Pool is available for students and there is a special batch for ladies . (Students and staff).

Yoga Center: We believe that yoga is what youngsters need most today and thus Institute celebrates International Yoga Day every year on 21st June. Practicing yoga might improve quality of life; reduce stress; help relieve anxiety, depression and improve overall physical fitness, strength, and flexibility. Yoga and meditation sessions are conducted for the students and staff in the premises through NSS.

Medical Facility:

- **Campus Clinic:** Institute having a clinic in the campus for regular medical examination and treatment
- **Medical Store:** One Medical Store is available for students and staff in the campus.

Other Facility:

- **General Stores:** General stores with various facilities like all engineering accessories, mobile recharge vouchers etc are available.
- **Milk Parlor:** More than two milk parlors are available for students and staff in the campus.
- **Fruit Centre:** More than two fruit centers are available for students and staff in the campus
- **Parlour:** Separate Parlour for Ladies and Gents students and staff are available in the campus.
- **Photocopy Centre:** Photo copying centers are available for students and staff in the campus
- **Temple:** Two temples are in campus.
- **Ambulance:** For medical emergency ambulance service is also

available in college.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

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

66

4.1.3.1 - Number of classrooms and seminar halls with ICT facilities

66

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

4.1.4 - Expenditure, excluding salary for infrastructure augmentation during the year (INR in Lakhs)

4.1.4.1 - Expenditure for infrastructure augmentation, excluding salary during the year (INR in lakhs)

in progress

File Description	Documents
Upload any additional information	No File Uploaded
Upload audited utilization statements	View File
Upload Details of budget allocation, excluding salary during the year (Data Template)	View File

4.2 - Library as a Learning Resource

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

The college Library is automated with the help of competent Library management System called SLIM 21 - Web version 2.4. It is prepared by M/S Algorhythems consultants Pvt Ltd, Pune. It is robust software and comprises of all Library processes and modules. Book Database, User database is created through data porting of excel sheets. The software has modules like Cataloguing - a structured book data, Classification- segregation by subject or branch of Books , Serial control- Journal magazine data, Opac,- online Public Access catalogue list Acquisition - Book Procurement, User database and automated circulation of Books, which generates Library usage statistics . Thus, the Library system is automated with the help of Barcode system on each book and user card.

The library is partially automated with this software, since 2008. Library has total of 56219 Books (Volumes) and over 3500 users

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for Additional Information	Nil

4.2.2 - The institution has subscription for the following e-resources e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access toe-resources

A. Any 4 or more of the above

File Description	Documents
Upload any additional information	No File Uploaded
Details of subscriptions like e-journals,e-ShodhSindhu, Shodhganga Membership etc (Data Template)	View File

4.2.3 - Expenditure for purchase of books/e-books and subscription to journals/e- journals during the year (INR in Lakhs)

4.2.3.1 - Annual expenditure of purchase of books/e-books and subscription to journals/e-journals during the year (INR in Lakhs)

8.67

File Description	Documents
Any additional information	No File Uploaded
Audited statements of accounts	No File Uploaded
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	View File

4.2.4 - Number per day usage of library by teachers and students (foot falls and login data for online access) (Data for the latest completed academic year)

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

625

File Description	Documents
Any additional information	No File Uploaded
Details of library usage by teachers and students	No File Uploaded

4.3 - IT Infrastructure

4.3.1 - Institution frequently updates its IT facilities including Wi-Fi

- IT infrastructure facilities are created taking into consideration the requirements of all the stakeholders.
- Institute is having Campus agreement with Microsoft since last twelve years, for upgradation of Windows Operating System version and Microsoft Application Software covered under this agreement.
- The infrastructure and applications support are constantly updated to meet the ever-changing needs of the syllabus. The Institute allocates adequate budget for providing and maintaining IT infrastructure with learning resources like ICT classrooms, purchasing of hardware, software and peripherals
- The institute has a 24X7 Wi-Fi facility in the college campus for the student and faculty members to avail internet connection at any place in the college and hostel. The adequate Internet Bandwidth of 300 Mbps ILL 1:1 is available in the Campus, provided by TCL, TTSL, and Inspire Networks are the Internet Service Provider.
- In order to ensure safety and security of data, a licensed UTM having facility of firewall, web content filtering , gateway

antivirus, VPN, bandwidth shaping and VLAN routing is available with institute.

- Institute is having a Biometric machine for taking Attendance of faculty and staff members.
- Enterprise Resource Planning (ERP) based training and placement management module used by institute for creating and updating student database. Academic year-wise student lists can be retrieved from the database of UG & PG students.
- T & P module additionally manage interview schedules, student list announcements, company criteria, records of various training and placement activities. This module of ERP solution can assign login rights to the department staff where the faculty can also check how many students have registered for the company. There is also a provision for faculty to approve-disapprove a student. Students can register themselves online, through the Training and Placement portal, update their resume details, apply for interviews, get updates about Training and Placement schedules, interviews and selection procedures.
- Today's students have risen up communicating and sharing experiences on social media sites like Facebook & Instagram. Using the power of different networks and engaging content, institutes are using social media to attract students, interact with current students and stay connected with alumni. At the Institute level, two main platforms available to communicate with students are Facebook (<https://bit.ly/34xh6Nj>) and YouTube ([https://www.youtube.com/c/ Sinhgad College of Engineering](https://www.youtube.com/c/Sinhgad%20College%20of%20Engineering)). Various activities and event details like upcoming webinars, guest lectures, FE induction, Alumni meet are posted on social media. Faculty and student achievements like student placement, ranker in university on are posted on these platforms.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

4.3.2 - Number of Computers

1046

File Description	Documents
Upload any additional information	No File Uploaded
Student – computer ratio	View File

4.3.3 - Bandwidth of internet connection in the Institution

A. ? 50MBPS

File Description	Documents
Upload any additional Information	No File Uploaded
Details of available bandwidth of internet connection in the Institution	View File

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the year (INR in Lakhs)

4.4.1.1 - Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component during the year (INR in lakhs)

in progress

File Description	Documents
Upload any additional information	No File Uploaded
Audited statements of accounts.	No File Uploaded
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	View File

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

Laboratories: Faculty incharge technical assistant look after the maintenance of each laboratory. The funds available from the budget head is used to repair of any breakdown item. When new purchase is to be made, then faculty in charge proposes the annual requirement and provisions for the same are accordingly in the budget. For consumable items, budget is prepared by staff in charge and technical assistant. **Class Rooms, Seminar hall and tutorial rooms:**

All these rooms are cleaned by departmental peon and this activity is monitored by departmental technical assistant. For consumable items, budget is prepared by staff in charge and technical assistant. Equipment: Preventive maintenance schedule is prepared by the faculty in charge maintenance is carried out regularly as per schedule and this activity is monitored by staff incharge. Computers: All the computers and peripherals are checked by faculty in charge and technical assistant for any problems once in a semester before beginning of the academics. Any maintenance activity, if required is carried out and required consumables are purchased. Maintenance activates and consumables purchased are entered in the respective dead stock registers. Central library: The Central Library of the institute is well maintained and each section in it is taken care by an assigned person for cleanliness. Electric fittings, equipment like photocopy machine, computers, printers, scanners are given for maintenance from time to time. Old machines are send to scrap with set procedure of the institute. Book Stacks are thoroughly cleaned once in a week. The books are weed out as per the norms and procedure laid down by the society. The book binding is done to keep them in condition of use. The stock verification is done as a part of regular maintenance Departmental library: Faculty members of the dept. can borrow the books from dept. library students in their free time can make use of the books available in the department. Civil maintenance: It is looked after by estate office for minor maintenance work and through civil contractor for major maintenance. Hostel maintenance: It is carried out by two different teams of housekeeping staff separately for girlshostel and boys' hostel. Mess maintenance : A committee of faculty members and students is formed to look after the quality of food and hygienic in the mess. Garden maintenance: is looked after by gardening staff under the supervision of estate office. Pest control is carried in the hostels at regular intervals by external agency under the supervision of hostel warden

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

5.1.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

1746

File Description	Documents
Upload self attested letter with the list of students sanctioned scholarship	View File
Upload any additional information	View File
Number of students benefited by scholarships and free ships provided by the Government during the year (Data Template)	View File

5.1.2 - Number of students benefitted by scholarships, free ships etc. provided by the institution / non- government agencies during the year

5.1.2.1 - Total number of students benefited by scholarships, free ships, etc provided by the institution / non- government agencies during the year

66

File Description	Documents
Upload any additional information	View File
Number of students benefited by scholarships and free ships institution / non- government agencies in last 5 years (Date Template)	View File

**5.1.3 - Capacity building and skills enhancement initiatives taken by the institution include the following: Soft skills
Language and communication skills Life skills
(Yoga, physical fitness, health and hygiene)
ICT/computing skills**

A. All of the above

File Description	Documents
Link to institutional website	http://cms.sinhgad.edu/sinhgad_engineering_institutes/vadgaon_scoe/curricular-activities-.aspx
Any additional information	No File Uploaded
Details of capability building and skills enhancement initiatives (Data Template)	View File

5.1.4 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year

235

5.1.4.1 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year

235

File Description	Documents
Any additional information	View File
Number of students benefitted by guidance for competitive examinations and career counseling during the year (Data Template)	View File

5.1.5 - The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases Implementation of guidelines of statutory/regulatory bodies Organization wide awareness and undertakings on policies with zero tolerance Mechanisms for submission of online/offline students' grievances Timely redressal of the grievances through appropriate committees

A. All of the above

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

5.2 - Student Progression

5.2.1 - Number of placement of outgoing students during the year

5.2.1.1 - Number of outgoing students placed during the year

182

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	View File

5.2.2 - Number of students progressing to higher education during the year

5.2.2.1 - Number of outgoing student progression to higher education

59

File Description	Documents
Upload supporting data for student/alumni	View File
Any additional information	View File
Details of student progression to higher education	View File

5.2.3 - Number of students qualifying in state/national/ international level examinations during the year (eg: JAM/CLAT/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations)

5.2.3.1 - Number of students qualifying in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government

examinations) during the year

75

File Description	Documents
Upload supporting data for the same	View File
Any additional information	View File

5.3 - Student Participation and Activities

5.3.1 - Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national / international level (award for a team event should be counted as one) during the year

5.3.1.1 - Number of awards/medals for outstanding performance in sports/cultural activities at university/state/ national / international level (award for a team event should be counted as one) during the year.

4

File Description	Documents
e-copies of award letters and certificates	View File
Any additional information	View File
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national/international level (During the year) (Data Template)	View File

5.3.2 - Institution facilitates students' representation and engagement in various administrative, co-curricular and extracurricular activities (student council/ students representation on various bodies as per established processes and norms)

Total 5 events have been conducted 3 from the E&TC department and 2 from the mechanical engineering department ---- no of students have participated in events through virtual rounds

1. IEEE Student Chapter
2. Sinhgad Student Council(5 Day VAP on Antenna Design Thinking)
3. Techtonic 2020
4. STEs Racing
5. Hyperion

Due to pandemic in this academic year very less no of events conducted as well as participation of students is very less

File Description	Documents
Paste link for additional information	http://cms.sinhgad.edu/SCOE-2016/SSC.pdf
Upload any additional information	View File

5.3.3 - Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions)

5.3.3.1 - Number of sports and cultural events/competitions in which students of the Institution participated during the year

3

File Description	Documents
Report of the event	View File
Upload any additional information	View File
Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions (Data Template)	View File

5.4 - Alumni Engagement

5.4.1 - There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services

The college has started Alumni Association on Dec. 06, 2003. The registration number of the Association is "Maharashtra / 1494 / 2003 / Pune / Dec. 06, 2003. The alumni association of Sinhgad College Engineering has grown up to 15,000 plus members by the end of the year 2021. The alumni association activities are coordinated by faculty members from each department in coordination with the Central Alumni coordinator and Principal. The objectives of the association are to carry out smooth functioning of yearly alumni meet, maintain the records of the alumni association, number of alumni, entrepreneur, prominent/star alumni, events organized under alumni association, and live alumni details, etc. The alumni association contacts the prominent alumina and connects with their

freshly joined alumina and arranges currier guidance programs. Also, the association prepares and distributes a reminiscence booklet yearly to encourage the Alumni for starting their startup with the help incubation center.

File Description	Documents
Paste link for additional information	http://cms.sinhgad.edu/sinhgad_engineering_institutes/vadgaon_scoe/about/alumini.aspx
Upload any additional information	View File

5.4.2 - Alumni contribution during the year (INR in Lakhs)

E. <1Lakhs

File Description	Documents
Upload any additional information	View File

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of and in tune with the vision and mission of the institution

VISION

उत्तमपुरुषान् उत्तमाभियंतृन् निर्मातुं कटिबद्धाः वयम् ।

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

MISSION

Holistic development of students and teachers 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

The institute aims at holistic development of students and teachers

by implementing education and other initiatives to strategically meet development goals of the institute. Transparency is maintained in the administrative affairs of the college for unique work culture and excellent academic environment is available for the students and faculty. It aims at becoming a premier institute in engineering education with state-of-the-art facilities and good Industry Institute Interaction.

Holistic development means the development of intellectual, mental, physical, emotional, and social aspects in a student so that he or she is capable of facing the demands and challenges of everyday life. The institute always commits for a value culture which will develop the students as a good engineer and later on as a professional in order to reflect the qualities of good human beings in professional as well as personal front.

The Vision and Mission of the institute have been developed with the active involvement and participation of all faculty members in thoughtful and focused deliberations. The Vision, Mission statements serve the institute as a navigational guide for the betterment of the institute.

Communication of Vision and Mission to students, teachers, staff and other stake holders

The Mission statement is communicated to all the students, teachers, staff and other stake holders through the college website, through circulars, display boards as well as college magazine and in the college prospectus making it available to students, parents/guardians and the public.

The mission statement focus on imbibing a unique value system, transparent work culture, excellent academic as well as physical environment which is conducive to learning, creativity and technology transfer which ultimately leads to the Institutional vision statement.

The academic components put forward by faculty in department meeting are discussed in the HoD meeting chaired by the Principal. The points are then discussed with IQAC and ensured that they are in line with Institute's Vision, Mission and Quality Policy. The points are then approved by the Governing Body. The Principal of the Institute being Member Secretary of the Governing Body, promotes involvement of all the stakeholders for overall development of the institute in academic and administrative matters. All the minutes of the meeting are duly recorded and the action taken reports are also

prepared and appraised to all the concerned.

A detailed academic calendar is prepared at the start of each semester which includes all academic, co-curricular and extra-curricular activities. The calendar prepared is in line with the Savitribai Phule Pune University academic calendar. Apart from the regular teaching activities, institute has taken an initiative to run innovative programmes like Student training Program (STP), Train the trainer (TTT), Skill development courses on ethics and human value, training programs and industry sponsored projects so that students can imbibe and cultivate human values in their personal and professional lives.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	No File Uploaded

6.1.2 - The effective leadership is visible in various institutional practices such as decentralization and participative management.

The organizational structure of SCOE is a blend of professional autonomy, individual accountability and well-defined administrative structure. Within this overall framework, faculty members have the professional operational autonomy in conducting their teaching, research, training and consultancy.

All the HODs are members of the IQAC which monitors quality of all activities of the institute by reviewing them periodically through Annual reports. Faculty members are given responsibility of handling statutory and non-statutory Committee activities independently, which are framed for specific purpose viz. Anti Ragging, Grievances Redressal, Internal Complaints Committee. Purchase, SC/ST students etc., which have been constituted with specific functions and responsibilities. The meetings are conducted regularly or need based and MoM are recorded and communicated to the concerned.

The involvement of faculty members in all aspects of academic administration throughout the Institution is assured by the administrative structure. Decentralization has been done at all

levels for good governance. There is a separate Training and Placement Cell and the other units of the institution like NSS, English Club, Robo club and Prayas Group are constituted by the Institute for encouraging cultural activities, maintenance of healthy campus life and work towards decentralized governance system.

The decentralization also helps the decision making with proper authority and financial power which lead to significant impact on the policy making, planning, and management with reference to engineering education. The Institute has framed 24+ institute level committees including statutory committee's and 70+ department level committees

The case study relevant to the Teaching Learning Process is elaborated here as a part of decentralization and participative management. At the Institution level, Academic Monitoring Committee has been constituted, governed by the Principal and HODs. This Committee meets periodically to discuss about various academic and non-academic issues. These include smooth conduction of academic courses, internal evaluation of student's performance, etc.

The head of the department assign the courses to the faculty well in advance based on expertise and the subject choice given by the faculty. The first subjects is assigned to the faculty based on the his choice, while assigning the second subject HOD will take call to allocate subject to meet departmental requirement(Time table/multiple choice/no of times subject taught, etc). Principal and HODs ensure that the academic calendar of SPPU is strictly followed and academic discipline is maintained at all levels. Before the start of the academics all subject teachers prepare course file.(Teaching plan, lecture notes, PPT, Video lectures, test papers, Quiz, University question papers etc). All these academic activities are included in the academic calendar of the departments and the time tables are prepared well in advance incorporating factors responsible for overall development of students.

The smooth conduction of academic activities principal empowers HODs and Departmental AMC members. The teaching faculty members is designated as a Class Coordinator, he responsible for monitoring the academic needs of the students for the class assigned and reports the status to the Head of the Department. The departmental level academic Monitoring Committee constituted includes senior faculty and non-teaching members to monitor the daily conduction according to the time table. The daily conduction report will be sent to the HOD and principal on daily basis. Non conduction of lecture and

practical's will be observed and also communicated to the concerned teacher.

The Teacher Guardian system is implemented at the college level for all the students. Each faculty member will be assigned a batch of 20 students for mentoring. The mentors interact with the students and parents and address all their academic and personal requirements for the development of students. In order to have continuous improvement in the teaching learning process, feedback is collected twice during the semester from students. The feedback is analysed and communicated to the concerned faculty member/s through HODs for further corrective actions.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	No File Uploaded

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ perspective plan is effectively deployed

The college has a systematic strategic plan for the development of the college with following objectives:

Strategy-1. To establish and ensure quality academic practices & procedures for excellence in teaching learning environment.

Strategy-2. To ensure all round development of the student by developing their academic, co-curricular and extra-curricular skills.

Strategy-3. To promote interaction between industry and institute to enrich the teaching learning process and enhance career opportunities for the students.

Strategy-4. To motivate the faculty to achieve excellence in their areas of interest and prepare them to face challenges of ensuring the future of the student community.

Strategy-2 is discussed in detail as below:

Strategy-2. To ensure all round development of the student by developing their academic, co-curricular and extra-curricular skills.

An all-round development will benefit a student to increase self-confidence, getting placed and to create a positive impression in their social as well as professional circles. The institute provides various platforms and opportunities to the students for their all-rounder development which are discussed below-

- Our annual event is organized by students which helps them to hone their leadership and management skills. This event also provides the platform to showcase their talent in various co-curricular activities.
- Institute motivates students to participate in various events organized under NSS and Prayas to understand their social responsibilities and contribute towards the nation.
- We have regular practice of arranging various competitions like Quiz, Coding, mini project, paper presentations etc. for the students to enhance and exhibit their technical skills.
- Institute motivates the students to develop their personality equipped with technical and nontechnical skills by conducting various MOOC courses on IITB spoken tutorials, NPTEL, Coursera etc. Also they are encouraged to perform laboratory assignments on Vlabs which nurtures their programming skills.
- The institute has taken initiative to enhance student's communication and soft skills by implementing the Student Training Program (STP), which is introduced module wise in every semester.
- Students are motivated and supported to participate in internship programs, which gives them actual job experience and help them to get acquainted with industry environment.
- The Institute have MOUs with various industries for the purpose of workshops, guest lecturers on upcoming trends and technologies, internships for students, faculty training, consultancy and research which helps to enrich teaching learning process.

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	Nil
Upload any additional information	No File Uploaded

6.2.2 - The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment and service rules, procedures, etc.

The institute has a well-established administrative setup. The governing body is the uppermost decision-making body, which helps management to achieve the Vision, Mission of the college and effective decision making via productive suggestions. It also cares about stakeholder's satisfaction. All the departments of the institute have departmental committees coordinated by faculty members and monitored by the Head of the Department to keep a check on academics and effective as well as efficient performance of the department in all aspects.

- A central Academic Monitoring Mechanism evaluates the activities of the departments. A regular review of the departments is taken through this mechanism.
- Several committees are formed at institute level for appropriate coordination of the activities. Due departmental representation is ensured in central committees.
- The Local Managing Committee and Governing Body are the final approving bodies. The various committees for internal coordination and monitoring are:

1. Governing Council
2. Local Managing Committee
3. Finance Committee
4. Purchase Committee
5. Staff Selection Committee
6. Website Committee
7. Research Co-ordination Committee
8. Alumni Committee
9. Information Brochure Committee
10. Committee for college Magazine 'Srujan'
11. Technical Event (Tectonic) Committee
12. Sports Committee
13. Sinhgad Cultural Committee
14. Dead stock verification Committee
15. Grievance Redressal Committee
16. Anti-Ragging Committee
17. Entrepreneurship Development Cell

File Description	Documents
Paste link for additional information	Nil
Link to Organogram of the Institution webpage	https://drive.google.com/file/d/16ej7_g59Tmy549m8cX9SCEwK003ix-rb/view
Upload any additional information	No File Uploaded

6.2.3 - Implementation of e-governance in areas of operation Administration Finance and Accounts Student Admission and Support Examination	A. All of the above
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File Description	Documents
ERP (Enterprise Resource Planning) Document	No File Uploaded
Screen shots of user interfaces	View File
Any additional information	No File Uploaded
Details of implementation of e-governance in areas of operation, Administration etc (Data Template)	View File

6.3 - Faculty Empowerment Strategies

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

Teaching Staff

- The Institute motivates and provides facilities for the faculty for pursuing higher education.
- The Institute organizes Teacher Advancement Programs aimed towards improving the soft skills of faculty to enhance their overall performance.
- The registration fees for the MOOCs courses like NPTEL is reimbursed to faculty scoring in top 80% rank for the course.
- Appreciation letters are issued to excellent performing faculty
- The Institute encourages and motivates the faculty for
 - Attending workshops, conferences, seminars, short term courses, refresher courses, orientation programs, summer/winter short term schools (SWSS), etc. organized

- by other institutes.
- Becoming active members of professional bodies by participating in the activities organized/sponsored by them.
- Undergoing industrial training programs and going for industrial visits
- Applying for research projects and providing support for their execution and completion and publish the research work.
- To take up consultancy activities by using facilities at the institute and providing sharing of revenue in consultancy projects.
- Deliver guest lectures at other institutes.
- visits to industry and distinguished institutes for knowledge acquisition / sharing
- Enhancing and improving their teaching skills by the use of modern teaching aids, use of online resources like NPTEL, Harvard EDX courses, spoken tutorial project of IITB, etc
- The institute invites resources persons from industries, researchers and academicians for interactions with the faculty and staff.
- The institute encourages the faculty to motivate in following ways-
 - Giving essential inputs, providing personal training on lecture/ lab-work delivery/seminar-project guidance, counseling on career advancement.
 - Involving them in discussions on topics in the syllabus.
 - Creating an open atmosphere for personal growth and to clarify the doubts, concepts and difficulties.
- For personality development, teaching skill development and social and technical up-gradation, the Institute organizes training programs like Teacher Advancement program (TAP) for management capacity building, inculcating leadership qualities and decision making, Train the Teacher (TTT) etc.
- The institute provides functional office infrastructure and other space to carry out their work effectively and efficiently

Non-Teaching Staff

- The Institute arranges need based training programs for their skill enhancement and also permit them to attend similar programs at other institutes.

- They are encouraged to go for higher studies and their *workload is adjusted* if the need arises.
- They are encouraged to participate in the organization of technical events

Personal/ General Welfare Schemes for all staff:

- Earned leave, Half Pay leave/Medical leave for both teaching and nonteaching staff
- Maternity leave for women staff @180 days is given.
- Group insurance, Accidental Insurance and EMBF for all staff.
- Management contribution to Provident fund for both teaching and non-teaching staff
- Implementation of pay scales to teaching and non-teaching staff
- The campus has a clinic and a doctor is available. All laboratories have a First Aid kit and fire extinguisher. An ambulance with all facilities is available at the campus round the clock.
- At the heart of the campus is an open-air auditorium with state of art sound system.
- Faculty and staff quarters at the campus.
- Admission to the wards of faculty and staff at schools and colleges
- The following are common facilities available at the campus
 - Free parking for staff and students.
 - Nationalized Banks, ATMs, Post-office
 - Medical Store, General Store, separate Ladies and gents' salons.
 - Fruit shop
 - Fitness/Sports Facilities
 - Well-equipped gym
 - Swimming Pool
 - Tennis court
 - Cricket ground
 - Indoor Games Center

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	No File Uploaded

6.3.2 - Number of teachers provided with financial support to attend conferences/ workshops and towards membership fee of professional bodies during the year

6.3.2.1 - Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the year

NIL

File Description	Documents
Upload any additional information	No File Uploaded
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	View File

6.3.3 - Number of professional development /administrative training programs organized by the institution for teaching and non-teaching staff during the year

6.3.3.1 - Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff during the year

7

File Description	Documents
Reports of the Human Resource Development Centres (UGCASC or other relevant centres).	No File Uploaded
Reports of Academic Staff College or similar centers	No File Uploaded
Upload any additional information	No File Uploaded
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff (Data Template)	View File

6.3.4 - Number of teachers undergoing online/face-to-face Faculty development Programmes (FDP) during the year (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course etc.)

6.3.4.1 - Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course during the year

153

File Description	Documents
IQAC report summary	View File
Reports of the Human Resource Development Centres (UGCASC or other relevant centers)	No File Uploaded
Upload any additional information	No File Uploaded
Details of teachers attending professional development programmes during the year (Data Template)	View File

6.3.5 - Institutions Performance Appraisal System for teaching and non- teaching staff

Performance appraisal system of the teaching staff:

- Annual self- assessment for the performance-based appraisal online system is adopted. It is ensured that information on multiple activities is appropriately confined. The information includes
- Part 1: Student Centric activities [out of 100]
 - Teaching- Learning and Evaluation related activities
 - Co-Curricular, Extra Curricular & Extension Activities
 - Students feedback, attendance for lectures and laboratory sessions conducted by the faculty and university results of a particular course.
- Part 2: Professional Development and Academic Contribution [out of 100]
 - Qualification improvement
 - Certification from reputed organization
 - Interaction with outside world as eminent resource person
 - Organization and participation in training programs
 - Internal Revenue Generation
 - Institutional level Governance responsibilities assigned
- Part 3: Research Contribution
 - Publication of Research articles in referred and/or non-referred International Journals, Conference Proceedings, books, chapters in books, Subjects Books by National level publishers/State and Central Govt. etc
 - Sponsored/ Funded Projects, Consultancy Projects etc
 - Patents/Technology transfer / Product /Copy right
 - Research Guidance to post graduate and Ph.D. students.
- For each these sections self-evaluation is followed by remarks

of head of the department.

- Principal / Director as the case may be, shall give justification for his remarks if the remarks of Head of Department is not satisfactory.
- Final Review by accepting authority.

Performance appraisal system of the non- teaching staff:

- Annual assessment for the performance based appraisal system is offline and ensured that information on multiple activities is appropriately captured. The information includes
- Part A: General information and academic background, Date of Joining, Improvement in Qualification, Nature of Duties performed, Officiating designation etc.
- Part B: Remarks by Head of Department in Part A which is filled by individual staff.
- Part C: Principal / Director as the case may be; shall give justification for his remarks if he is not satisfied with the remarks of Head of Department in Part B.
- Part D: Final Review by accepting authority.
- Principal / Director should submit the report duly completed in all respect to the Founder President/ Founder Secretary as the case may be for final review without loss of time so as to complete process before expiry of tenure of the faculty for that academic year.

Outcome of Performance appraisal

- Report is used for reviewing the annual progress of staff and for promotion to the next scale/designation.

Each faculty/staff becomes aware of self-weaknesses and tries to acquire oneself in those areas so that they can grade better in future.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	No File Uploaded

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly Enumerate the various internal and external financial audits carried out during the year with the mechanism for settling audit objections within a maximum of 200 words

The institute conducts transparent internal and external financial audits periodically. The internal financial audit of the Institute is entrusted to a committee of chartered accountants appointed by STES head office along with the institute's accounts department.

The external financial statutory audit is conducted by a chartered accountant appointed by STES head office. Each financial year, a comprehensive examination and verification of all transactions is carried out. All observations and objections of the auditor are communicated through their report. These are examined by the principal, the internal auditor, and the accounts department. The shortcomings in the auditor's report are addressed and rectified through compliance.

List of documents:

Audit reports of :

1. BCUD research grants
2. MODROB
3. Internal financial audit reports
4. External financial audit reports
5. Compliance reports
6. Purchases

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	No File Uploaded

6.4.2 - Funds / Grants received from non-government bodies, individuals, philanthropers during the year (not covered in Criterion III)

6.4.2.1 - Total Grants received from non-government bodies, individuals, Philanthropers during the year (INR in Lakhs)

NIL

File Description	Documents
Annual statements of accounts	No File Uploaded
Any additional information	No File Uploaded
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the year (Data Template)	View File

6.4.3 - Institutional strategies for mobilization of funds and the optimal utilization of resources

The institute has a highly effective system in place to track how well financial resources are being used. The financial budget for the following academic year is prepared after considering all possible costs and incomes.

Before the beginning of the academic year, every department prepares a budget based on the requirements, such as the purchase of equipment, instruments, consumables, etc. The financial requirements of each department are compiled and forwarded to the principal's office. The principal's office reviews the budget and forwards it to the Local Management Committee (LMC).

The LMC critically reviews the budget and gives its remarks and forwards it for approval to the Governing Body (GB). The budget is discussed in the GB and, after necessary modifications or corrections, the budget is approved.

List of documents:

1. Fee structure sanctioned by FRA
2. Budget of every department
3. Budget sanctioned by LMC
4. Approved budget

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	No File Uploaded

6.5 - Internal Quality Assurance System

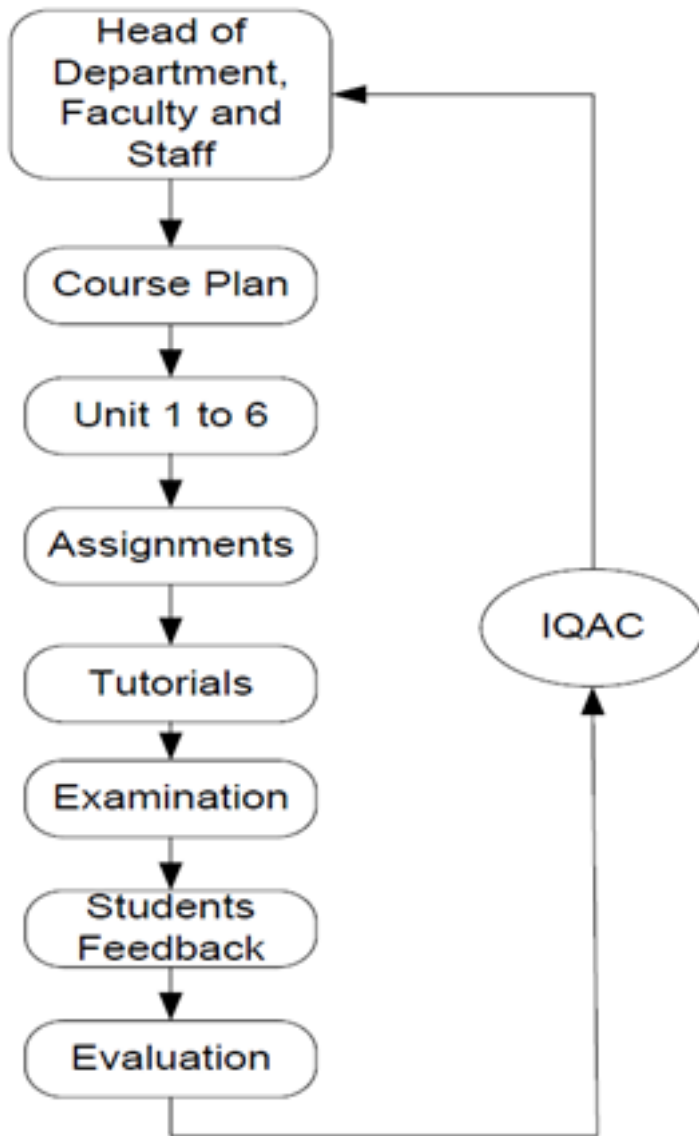
6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the

quality assurance strategies and processes

The IQAC Cell was set up in the academic year 2017-18, comprising senior faculty from various departments and expert members from industries, research institutes, social organizations, etc. in the institute for assuring quality of all the activities for making the students employable.

Motive is to maintain and enhance quality of education. The major task of IQAC is to develop a structure within the institute for conscious, steady and synergetic work culture for better performance of institution.

The institutional policy integrates the IQAC processes, with regard to academics - audit and compliance, administrative, finance and other allied areas. IQAC promotes a number of activities to make everyone responsive of the quality assurance strategies, plans and processes.



Best Practice - 1

Title: Promotion of research and consultancy activities

Goal: To promote the research and consultancy activities among the faculty and students

The Context: The institute has taken initiative to start PG programs in various departments and four departments of the institute obtained the permission for recognized Ph.D. research center from SPPU.

The Practice: The students admitted to the institute, are made aware of the importance of research in engineering education by the faculty. Several orientation programs are organized every year to highlight the importance of research. A separate annual budgetary

provision is made for research expenses. All the departments of the institute have identified selected areas of research and consultancy. It is made mandatory for every PG student to publish a research paper in refereed research journals/conferences. The faculty are encouraged to do the consultancy work. The institute has well defined policy for consultancy revenue distribution between the institute and the faculty.

Evidence of the success:

- Increase in number of research projects undertaken by the faculty in association with different funding agencies.
- Increased number of publications in Scopus/web of science/Google scholar indexed Journals and Conferences.
- Consultancy policy has contributed in increasing the revenue generation.

Problems encountered and resources required:

Though the institute support the research activities in all departments, requirement of high end equipment is an important lacuna. Another problem is unavailability of industry expert due to busy schedules, for consultancy work. The institute has got the sufficient resources to carry out the basic research in all the departments. Efforts are being made to make the laboratories with more advanced equipment and software facilities

Best Practice - 2

Title : E resources usage and development.

Goal : To foster the teaching learning process.

The Context: In order to observe smooth conduction even during pandemic condition faced in past three semesters , the institution supported the faculty members to use and develop e resources.

The Practice: Faculty members are oriented for the usage of vlab through iitb portal , institute being a nodal center. In turn they have conducted many practicals using vlab. In some cases the departments prepared audio - video lectures for students as well as conducted workshops for faculty members from different institutes. Avenues like NPTEL, SWAYAM , MOOC were availed by the faculty. Evidence of the success : This generation is highly in demand of e

resource utility. An easy accessibility and performance for different experiments have developed interest among the students. Inquisitive ability is improved.

Problems encountered and resources required: The requirement of 4G network and quality laptops. The training is expected to be given to the faculty members. Sometimes the portals are unavailable during maintenance.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	No File Uploaded

6.5.2 - The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities

As per NAAC guidelines the formation of IQAC was observed. With various motives for faculty and students it started its activities. Quality Assurance provides the upkeep of an anticipated level of quality in the educational institutes and is experienced by the students by selecting a well-designed curriculum and observing teaching-learning processes and assessments

The representatives are the leaders and motivators for the policy decisions to be implemented in the departments. The effectiveness of each policy decision is monitored and communicated to the head of the institution for further corrective action. The overall process is as follows:

The feedback from all the stakeholders is taken and forwarded to the IQAC for further corrective actions at regular intervals.

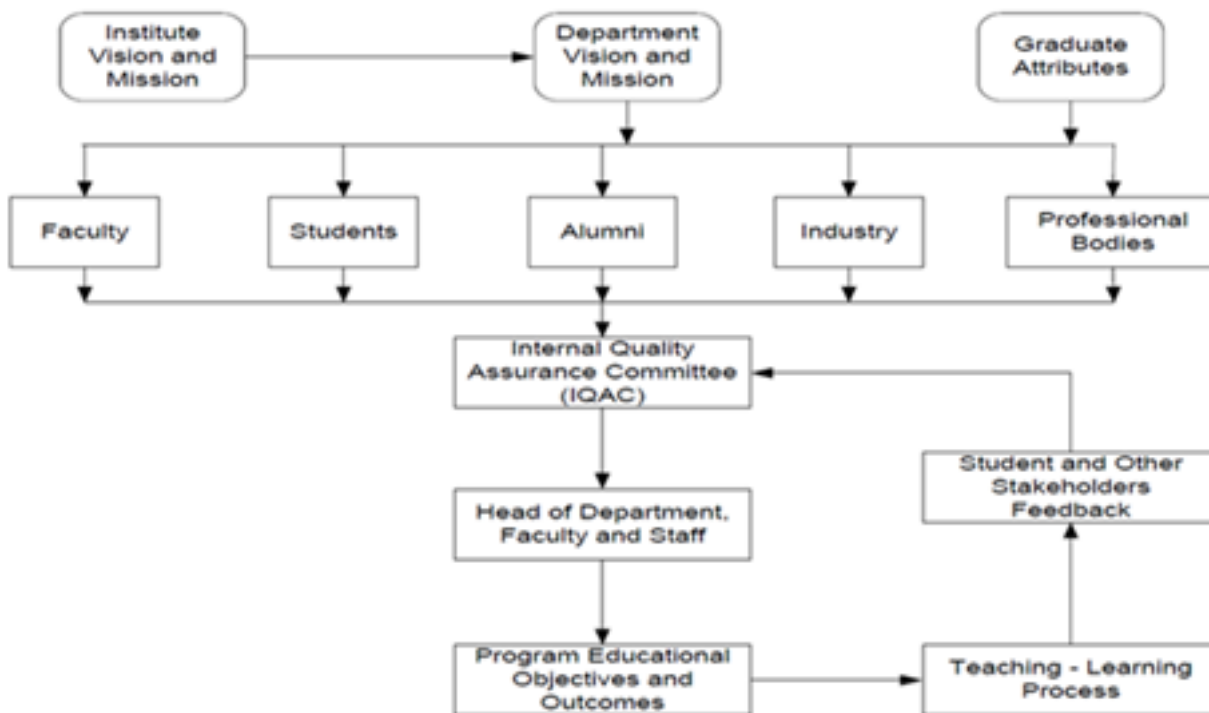
IQAC goes through the various requirements of external stakeholders like industries, AICTE, UGC based on the feedback reports generated.

Considering these factors IQAC decides academic policies which are to be transferred to the Institute and to the departments.

According to the directions of IQAC and institute, Heads of the

department give instructions to the teaching and non-teaching staff for improvements in the overall teaching and learning process

Academic auditing agencies like NAAC, NBA, DTE, AICTE, LMC, UGC, CII visit institute for quality assurance purpose. Institute has developed various mechanisms in developing outcomes expected by such agencies. Academic peers, visit various departments of the college during university examinations and evaluation of work done by Postgraduate and Doctorate students is also verified. Every care is taken for placement activities.



Formation of program Education Objectives are one of the most important aspects of National Board of Accreditation (NBA). During process, IQAC considers various attributes of external stake holders, institute and department. Accordingly institute and concern departments are directed to PEO formation which could fulfill the quality education requirements. These PEO's are then covered through teaching learning process. Student feedback is considered for further corrective actions (if any)

Student Training Program I to V (STP)

Considering the academic level of the students and taking the cognizance of the feedback from stakeholders STPs are promoted. The expected outcome starts with improvising the soft skills and it ends at Value Added Programs (VAP) organization. These not only help in

improvising the linguistic and communicative ability of the students but also broadens the vision about market conditions and industry demand. This helps in bridging the gap between academics and industry. Experts from different fields share their experiences with the students through VAP, guest lectures, webinars.

The students also are involved in research work and patent filing process.

Formation of entrepreneurship cell and its work: SCOE

Entrepreneurship cell stands for young aspiring entrepreneurs who are passionate about business development. The E- cell provides the mentoring and infrastructural support for the entrepreneurship project. It also makes available the financial support to the students by approaching the appropriate investors. it connects with the students of different background form various other institutes for entrepreneurship activities.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	No File Uploaded

6.5.3 - Quality assurance initiatives of the institution include: Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analyzed and used for improvements Collaborative quality initiatives with other institution(s) Participation in NIRF any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)

A. All of the above

File Description	Documents
Paste web link of Annual reports of Institution	https://drive.google.com/file/d/18VBeF7U88ztCRPUngSRLaCvCzHhvXxeH/view
Upload e-copies of the accreditations and certifications	View File
Upload any additional information	No File Uploaded
Upload details of Quality assurance initiatives of the institution (Data Template)	View File

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

Gender equity is a culture in our institute. This is reflected by the presence of women in all sectors of our institute. Women are part of technical duties (heads of department), as well as administrative duties, Also, good representation of girls is a regular practice in all our academic, co-curricular and extra curricular activities.

File Description	Documents
Annual gender sensitization action plan	Nil
Specific facilities provided for women in terms of: a. Safety and security b. Counseling c. Common Rooms d. Day care center for young children e. Any other relevant information	Nil

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation measures Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power efficient equipment

B. Any 3 of the above

File Description	Documents
Geo tagged Photographs	View File
Any other relevant information	No File Uploaded

7.1.3 - Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 200 words) Solid waste management Liquid waste management Biomedical waste management E-waste management Waste recycling system Hazardous chemicals and radioactive waste management

We promote vermi composting of litter falling in the college premises. To enhance the rate of vermi composting, indigenous cowdung based bioenzyme called JEEVAMRUT is used and promoted in the college as well as in the common public at large

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	View File
Geo tagged photographs of the facilities	http://cms.sinhgad.edu/sinhgad_engineering_institutes/vadgaon_scoe/about.aspx
Any other relevant information	View File

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus

D. Any 1 of the above

File Description	Documents
Geo tagged photographs / videos of the facilities	View File
Any other relevant information	No File Uploaded

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows:

1. Restricted entry of automobiles
2. Use of Bicycles/ Battery powered

A. Any 4 or All of the above

<p>vehicles</p> <p>3. Pedestrian Friendly pathways</p> <p>4. Ban on use of Plastic</p> <p>5. Landscaping with trees and plants</p>	
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File Description	Documents
Geo tagged photos / videos of the facilities	View File
Any other relevant documents	No File Uploaded

7.1.6 - Quality audits on environment and energy are regularly undertaken by the institution

<p>7.1.6.1 - The institutional environment and energy initiatives are confirmed through the following 1.Green audit 2. Energy audit 3.Environment audit 4.Clean and green campus recognitions/awards 5. Beyond the campus environmental promotional activities</p>	<p>D. Any 1 of the above</p>
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File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	No File Uploaded
Certification by the auditing agency	No File Uploaded
Certificates of the awards received	No File Uploaded
Any other relevant information	No File Uploaded

<p>7.1.7 - The Institution has disabled-friendly, barrier free environment Built environment with ramps/lifts for easy access to classrooms. Disabled-friendly washrooms Signage including tactile path, lights, display boards and signposts Assistive technology and facilities for persons with disabilities (Divyangjan) accessible website, screen-reading software, mechanized equipment 5. Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading</p>	<p>D. Any 1 of the above</p>
--	------------------------------

File Description	Documents
Geo tagged photographs / videos of the facilities	View File
Policy documents and information brochures on the support to be provided	No File Uploaded
Details of the Software procured for providing the assistance	No File Uploaded
Any other relevant information	No File Uploaded

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 200 words).

Our college has students and faculty members from all casts and communities. Also, many international students are studying in our institute. Many students from J&K also prefer our college for studies.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View File
Any other relevant information	View File

7.1.9 - Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens

We foster to create good human beings. Our NSS unit is one of the strongest units under SPPU. Also we have other group PRAYAS which also is very active in social activities. The students from these groups as well as others, are working in the areas of water conservation, rural up-liftment, happy village concept with other organisations like Rotary Clubs

File Description	Documents
Details of activities that inculcate values; necessary to render students in to responsible citizens	View File
Any other relevant information	View File

<p>7.1.10 - The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard. The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff 4. Annual awareness programmes on Code of Conduct are organized</p>	<p>D. Any 1 of the above</p>
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File Description	Documents
Code of ethics policy document	View File
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programs etc., in support of the claims	No File Uploaded
Any other relevant information	No File Uploaded

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

The college /department do celebrate various days such international women's day, world water day, world environment day, water resources day etc. The same is conveyed to students and faculty members through social media.Also display boards at prepared and displayed at respective places by some of the departments.

File Description	Documents
Annual report of the celebrations and commemorative events for the last (During the year)	No File Uploaded
Geo tagged photographs of some of the events	View File
Any other relevant information	View File

7.2 - Best Practices

7.2.1 - Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.

Students' representation and engagement in various administrative, cocurricular and extracurricular activities -Students constitute a major stakeholder in the institutional growth. The institute has student representatives in many of the academic and administrative bodies/committees of the institution for effective functioning of the same. Some of the bodies are listed below Student Council, Student Grievance Redressal Cell, Sexual harassment cell, Anti-ragging committee, NSS (National Social Service), Magazine Committee.

Student centric method, such as experiential learning, participative learning & problem-solving methodologies are used for enhancing learning experiences. The development of the students in multiple dimensions is necessary in professional engineering education. These dimensions help the students to excel in Industrial jobs, Entrepreneurships - Start Ups, Higher education, etc. With this view, in addition to the traditional teaching-learning methods, the Institute provides innovative student centric methods such as experimental learning, participative learning and problem-solving techniques. Various events, efforts taken in this direction are listed below -Competitions such as Hackathons, Internships in Industries, Various Clubs/IEEE/BAHA/HYPEREN/Civil services/Entrepreneur/etc., Students' Chapters, Industrial visits, Techtonic - Technical activities / events, Workshops /Seminars, Exposure to Virtual Lab environment through tie-up with IIT Bombay, Review of web literature ,Guest lectures, Group Discussions/Debates ,Peer learning groups, Massive Open On Line Courses (MOOCs) , IIT spoken tutorials, NPTEL, etc, Students Training Programs (STP), Project based learning, Establishment of Industry collaborative laboratories, Participation in Research projects - Innovation/Avishkar activities of the University, Poster/paper presentations. The students participate/undergo through different kinds of activities as planned methodological efforts so as to explore the professional capabilities.

File Description	Documents
Best practices in the Institutional web site	View File
Any other relevant information	View File

7.3 - Institutional Distinctiveness

7.3.1 - Portray the performance of the Institution in one area distinctive to its priority and thrust within 200 words

Vision of the institution is "We are committed to produce not only

good engineers but good human beings also". In order to achieve this vision Sinhgad College Of Engineering (SCOE) has started various curricular, cocurricular and extracurricular activities. Academic monitoring committee (AMC) has been established in institute to ensure the effective implementation of curriculum. AMC is headed by Principal, Vice Principal and institute coordinators of the committee along with Heads of departments. Efforts of this AMC lead to the 09 number of university toppers from our institute. Training and Placement Cell of the college conducts employability tests AMCAT (Aspiring Minds Computer Adaptive Test) and QALR (Quantitative Aptitude and Logical Reasoning) practice sessions that have made positive impact on placement. There is a steady rise in the number of students eligible for placement and placed students. 394 number of students are placed in various MNCs. Number of companies visited on campus are 117. Highest package 33.2 Lakh Per Annum and average 4.53 LPA are offered by companies. Students are encouraged to participate in various competitive exams like GATE, GRE, MPSC/UPSC, TOEFL, CAT etc. As a result 204 students have cleared these competitive exams. In order to inculcate values for good human beings students are promoted to participate in various social activities conducted by NSS and Prayas. Students enthusiastically organize and participate in activities like Drug Rehabilitation, Tree Plantation ,Traffic Management Drive, Awareness Of Organ Donation Awareness, Blood Donation, Kerala Flood Relief Donation Drive etc. Overwhelming response was shown by students by participating in these activities in huge number (2251). College has received appreciation letters from Savitribai Phule Pune University, Rotary Club and Sassoon Hospital and many more organizations.

File Description	Documents
Appropriate web in the Institutional website	View File
Any other relevant information	View File

7.3.2 - Plan of action for the next academic year

To intensify Institute Industry interactions To motivate the faculty and students for entrepreneurship by supporting them with incubation facility in the college To increase the number of Memorandums of Understanding (MoU) with Industries To increase the number of Patents and Journal publications.