



SELF STUDY REPORT

FOR

2nd CYCLE OF ACCREDITATION

**SINHGAD TECHNICAL EDUCATION SOCIETY SMT.
KASHIBAI NAVALE COLLEGE OF ENGINEERING**

SURVEY NO. 44/1, OFF SINHGAD ROAD, VADGAON BK. PUNE,
MAHARASHTRA, 411041

411041

<http://skncoe.sinhgad.edu>

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

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1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Sinhgad Technical Education Society (STES) was established in the year 1993 with an objective of providing quality education in the field of Engineering, Management, Pharmacy, Architecture and basic schooling. All the institutions under STES are recognized by the concerned statutory authorities and fulfill the norms and standards laid down by them.

Smt. Kashibai Navale College of Engineering (SKNCOE) started functioning in the academic year 2001. It is approved by All India Council for Technical Education (AICTE), New Delhi, affiliated to the Savitribai Phule Pune University (SPPU), Pune. All eligible programs offered by the institute were accredited by National Board of Accreditation (NBA), New Delhi. The institute has grown in stature since its establishment.

The institute has very good team of dedicated, experienced, full time faculty members & supporting staff. Many of the faculties are Ph.D. holders. The management encourages the faculty members to pursue doctoral degree at institutes of national importance like IITs, NITs as well as internationally reputed universities like Aalborg University, Denmark.

The infrastructure of the institution is excellent with state-of-the-art laboratories, digital library, Wi-Fi campus, well furnished hostels for boys and girls, to mention a few which are as per the norms of AICTE & the syllabi of existing UG/PG programmes of SPPU. Regular feedback is taken from the stake holders to improve the academic and infrastructural standards of the institute.

The quality of teaching-learning is ensured by Academic Monitoring Committee (AMC). The institute has produced 203 rank holders of SPPU merit list till date. It follows the process of continuous evaluation for internal assessment and regularly conducts Value Addition Programmes (VAP) for students to bridge the gap between the academia & industry. The training and placement cell arranges training programs like campus-connect, personality development to enhance the technical, logical and communication skills of students.

Vision

उत्तमपुरुषान् उत्तमाभियंतृन् निर्मातुं कटिबद्धाः वयम् ।

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

Mission

OUR MISSION is to do WHAT it takes to foster, sustain and upgrade the quality of Education by way of harnessing Talent, Potential and optimizing meaningful Learning Facilities. OUR ENDEAVOR is to provide

the Best Learning, conducive environment and equip the students with effective Learning Strategies.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

- Good placements for registered candidates in reputed multinational, national companies through Training and Placement Cell. In the current year, 70.27 % of registered candidates have been placed in 51 companies till date and still the placement is ongoing. For placements, SKNCOE ranked at 19th position in TOP 50 private institutes in India
- Consistently excellent results in university examinations with ranking TOP 10 amongst all SPPU affiliated engineering colleges. The institute has produced 203 rank holders of SPPU merit list till date.
- The institute imparts training to students in various emerging areas in collaboration with various companies like Amazon Web Services Academy, Google Cloud etc.
- Institute rigorously practices Experiential Learning through various approaches like internship, PBL, various interdisciplinary clubs.
- Institute has designed STP modules for every semester which focus on developing core and soft skills, communication, life, and computing abilities. Implementation of VAP for students to bridge the gap between academia and industry in collaboration with various industries.
- Industry Institute Interaction, MOUs, Internship, Expert Talk, industrial visits.
- Policy for promotion of faculty for higher education. Five faculty members have been fully sponsored for PhD. at Aalborg University, Denmark.
- Ph.D. research center
- Average experience of the faculty is more than 10 years.
- Active participation of students in Prayas and NSS
- Excellent infrastructure as per AICTE, SPPU norms.
- Excellent computing facilities fully networked through HPC cluster (HP C-DAC server) with various engineering application tools as well as four I-7 HP Computing nodes.
- Clean, Energy sustainable , environment friendly campus with amenities which include hostel accommodation for boys and girls, sports facilities for indoor and outdoor games, telephone services, bank and ATMs, shopping complex, campus clinic, good quality mess, cafeteria, open air theatre & 500KVA Genset for power backup.
- Library facilities with good quality titles with large number of volumes, national, international journals in print form. Online journals access through digital library, availability of reading room facility for 24 hours a day.

Institutional Weakness

- Less number of faculties with PhD qualification.
- Very few consultancy & industrial projects undertaken by faculty as well as institute.
- Less number of publications in reputed journals with good impact factor.
- Few patents filed till date, incubation centre of institute is functioning and growing slowly, it will encourage the faculty for filing patents.
- Feeble networking with reputed institutes like IITs, NITs.
- Success in attracting diverse talent from other states is limited

Institutional Opportunity

- India being a developing country, there is always a need for qualified technical man power.
- Pune being hub of IT and core industries, there are excellent placement opportunities.
- Establishment of research laboratories, center of excellence in collaboration with industries.
- Opportunities for conduction of training programs for upgrading skills of employees from industry.
- Higher possibility of networking among the Alumni for benefit of students.
- Need for implementation of various literacy programs for school children in rural areas to encourage them to take up technical education.
- Scope for funded faculty-research projects and consultancy at national and international levels and opportunities to offer the testing facilities and consultancy to industries.

Institutional Challenge

- Foreign autonomous universities entering in field of technical education & fierce competition from increasing number of IITs, NITs in India.
- Achieving 100 % placement of students.
- Ever increasing gap between industry requirements and current curriculum
- Inculcating R&D culture among students..
- Establishment of universities by corporate.
- Attracting more no. of best students in other than Maharashtra state.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

Institute is affiliated to Savitribai Phule Pune University (SPPU) and ensures effective curriculum delivery through elegant process. Based on SPPU academic calendar, institute prepares its own calendar. At the beginning of academic session, subjects in the syllabus are distributed to the teachers as per their choice. Teachers prepare their lectures according to the syllabus allotted, academic committee sets target for CO-PO Attainment.

In the process of designing and developing the curriculum of SPPU, teachers are contributing at different levels such as BOS, setting of question papers and assessment process. In academic year 2020-21, 161 teachers have participated in various evaluation processes of the curriculum of University. Institute has registered for NPTEL where students can have access to e-learning through online Web and Video courses for various streams. 85% programs of the institute in which Choice Based Credit System courses are present. Total number of Add on / certificate programs offered during last five years is 208. Average percentage of students enrolled in Add-on / certificate programs as against the total number of students during the last five years is 44.43%. Various classroom teaching methods based on various needs of different subjects are regularly used for the effective delivery of the curriculum such as Regular class tests, Mid-term examinations, Mid-semester examinations, regular assessments in practical classes, viva-voce, are done to keep track of the improvement of the students. Based on curriculum, number of courses which adhere crosscutting issues is 82. Average percentage of courses that include experimental learning for last five years is 5.72 %. Based on curriculum, all students availed either project work, field work or internship during academic year 2020-21. As institute promotes experiential learning, many students opted summer internship even though it is not mentioned in curriculum. Institute

obtains feedback on the syllabus and its transaction from various stakeholders including students, teachers, alumni and employer. AICTE and Stanford University survey is referred for collecting employer feedbacks. The collected feedback is analyzed and action is taken against any discrepancy. Received suggestions are communicated to the affiliating university for consideration at the time of syllabus revision.

Teaching-learning and Evaluation

Student admission process of institute is governed by the rule laid by Directorate of Technical Education (DTE), State Common Entrance Test Cell of Government of Maharashtra (GoM) through Centralized Admission Process (CAP). Students admitted are mix blend of background, culture, religion and language.

Transparent selection process of faculty as per the guidelines given by SPPU is adapted by the institute which helps to get quality faculty and enable excellence in teaching and learning. AMC ensures quality in teaching learning process by taking feedbacks from student regarding faculty. The teaching practice includes theory, tutorial, practical and STP components. Teaching-learning process involves black board teaching along with innovative teaching methods which include usage of PPTs, ICT, on line learning tools and project/game/activity-based learning. All departments of institution systematically develop action plans for effective implementation of curriculum considering SPPU academic calendar, SKNCOE policies and administrative decisions. Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences.

Proven escalation model is being run at institute where students freely interact with their subject teachers, Teacher Guardians (TGs), HoDs, Vice Principal and Principal. This model helps students and faculties to maintain healthy and competitive environment in the department and in turn at institute. Examination related grievances are handled through proper channel defined by institute. Salary is paid as per the pay scale defined by the GoM.

Student performance is monitored continuously through regular unit tests, mid-term practical oral examinations, prelim examinations, mock and practice practical turns. Remedial classes and laboratory session are conducted for slow learners for all courses. Institute has defined Vision, Mission and Objectives. In tune with institute's vision and mission statements, all departments have their own vision and mission, Program Educational Objectives, Program Specific Outcomes, Course Outcomes (COs), and Programme Outcomes (POs) for each program. Outcome Based Education is practised in all departments. CO, PO, PSO attainment is calculated and corrective measures are taken if target attainment is not achieved. The significant improvement in academic performance and employment ratio indicates achievements of teaching-learning process.

Research, Innovations and Extension

At institute, a unique ecosystem has been developed to involve the students and faculty in various activities by supporting, promoting and imbibing the policies related to Research and Development, Entrepreneurship, Industry-Institute Interaction, Intellectual Property Right, etc.. Institute has a clear research promotion policy supported by a research advisory committee. The code of ethics to follow for conducting research is also communicated to professors and students through predefined awareness programs and codes. Institute also has cells dedicated to development of Entrepreneurship and Intellectual Property Rights to drive innovations in the Institute and then map them for the well-being of the Institute. Institute have an average of **101** Memorandums of Understanding signed with various industries for collaborative work and internships during

last five years. Institute has **13** funded projects worth **20.8 LacRupees** from Government agencies in the past 5 years.

Eight professors are recognized as research guide during last 5 years. Institute always encourage students for on campus innovation and to exhibit it through National/International level competitions like Baja , Supra. Seed funds are given to students and faculty to foster such innovation on campus. A pre and well defined process is carried out by the R&D Cell to support seed capital and promote the institute's research ecosystem. Over the past five years, many of our professors have upgraded their qualification through prestigious institutions across the country. The Institute's academic research also has more than **820** journal publications and over **394** research articles in popular book chapters and conference proceedings over the past 5 years. Quality of research publications is highly appreciated with **372** Scopus publications and **5** Web of Science publications and **8** UGC recommended Publications in the last 5 years. Students and faculty members of this institute have obtained a total of **29** patents. Four of these have been approved, 18 have been published, and the rest are in progress. Almost 100% of students are being benefitted by providing internships in various industries, businesses, governments and non-government organizations. Over last five years, a total of **122** extension activities have been conducted for community, along with several blood donation camp organizations.

Infrastructure and Learning Resources

The physical infrastructure of Institute is established as per the prescribed norms of statutory bodies like UGC, DTE and AICTE spread across two multistoried buildings. The ample and pre-eminent facilities in institute provides the quality education to students and staff in teaching learning environment. Physical facilities for teaching-learning includes 54 classrooms (UG+PG) and 2 seminar halls which are equipped with ICT facilities like PA system, LCD Projector, Internet connectivity. Institute has 16 tutorial rooms, 57 (UG+PG) state of art laboratories and 3 workshops. To nurture culture of innovation at campus, institute has established Centre for Innovation Incubation and Enterprise which helps students to translate their ideas into reality and upgrade them to the level of commercial value.

Institute has sufficient facilities for outdoor games like cricket, Football, volleyball, Tennis, Gymnasium, Swimming etc and the indoor games like Table Tennis, Carrom and Chess. Students are also encouraged for cultural activities by providing them financial and infrastructural support.

Library of SKNCOE is located on ground floor of Central building with a stack area of 255 sq. meters. Reading hall located on the third floor of building has an area of 1145 sq. meters with a sitting capacity of 1000. On fourth floor in 255.4 sq meters Digital library is situated with 30 computers with internet facility. Scanning and printing facility is availed in Digital Library. Institute has separate annual budget for the library. EASYLIB software is deployed at library for effective utilization of library resources.

Computer Laboratories are equipped with 889 computers. The available Internet bandwidth of 250Mbps Std ILL provided by TATA Communications Ltd is adequate to meet the institutional requirements. College upgrades the computational facilities as per the requirements of University curriculum. Institute has Microsoft Teams license for online conduction of classes.

Institute has adequate budget for infrastructure augmentation and maintenance of academic and physical

facilities. Minor repairs are carried out by technical assistants, technicians. Infrastructure, sports complex maintenance, civil work and electrical work is carried out by central team of Estate Office. Institute has a house keeping supervisor for overlooking maintenance of cleanliness and minor repairs required on a day-to-day basis.

Student Support and Progression

In order to cater needs of students, TG scheme is implemented to monitor academic/personal progress of students, to share their problems and for teacher, it's a good platform for talent hunting.

Institute has dedicated student section which assists students to avail benefit of scholarship from social welfare department and various NGOs. Earn and learn scheme financially supported by SPPU and institute is also implemented to extend support to financially weaker students. In last five years, 63.14 % of students from all categories have benefited from government scholarships under various initiatives. Students are also benefitted by scholarship, freeship provided by some institutional and non-government agencies under Fee Waive & N.G. Bhosale trust. Accidental insurance policy is provided to every student.

Extra-curricular, co-curricular activities are organised for students through SSC. This helps students to build their personality. For sports activities, adequate infrastructure is provided. Students participate in tournaments and win prizes at zonal and university level. Every year, institute hosts a giant cultural festival called "Sinhgad Karandak" in which students from SKNCOE, sister institutes, and other institutes participate enthusiastically.

Anti-ragging committee, women's grievance redressed cell and disciplinary committee are in place to take care of students.

Registered alumni association of institute is functioning actively. Institute organizes alumni meet and their interaction throughout the year by inviting them in their respective departments.

T&P cell is well supported by departments while giving campus placement and career guidance. Institute helps students prepare for higher education by guiding them through the process. In last five years, with respect to total final year students, average 39.11 % students are placed and with respect to registered students for placement, average 61 % students are placed.

Institute has designed STP which focuses on developing core and soft skills, communication, life, and computing abilities. Institute organizes workshops for identification of career opportunities. Special efforts like GATE coaching, guidance for higher education abroad, career guidance workshops are conducted to help students to take up higher studies and build their career. During last five years, average 22.27 % of students benefited from institution's support for competitive examinations and career counselling.

Governance, Leadership and Management

The institute's vision and mission statements were created with the demands of society and the need for

technical skills required for the industry in mind. The senior management team, which includes the President, Secretary, Vice President HR, and Vice President Admin, along with the Principal, Vice Principal, HODs, and faculty, is focused on the goals of the institution. For the development and implementation of academic, curricular, and extracurricular activities, the Principal, Vice Principal and authorities divide the administration into distinct committees in order to provide distributed administration. Faculty and students participate actively in various committees to carry out predetermined strategies. IQAC prepares a ten-year perspective plan based on feedback from all stakeholders, as feedback from all stakeholders is critical in developing institutional policies. After extensive debate, the LMC and various college-level committees accepted this perspective plan. IQAC ensures that the perspective plan is implemented effectively by ensuring that academic activities run smoothly. The various financial and other facilities like a gratuity program, a provident fund, EMI for tuition fees for employee wards, and a residential facility for teaching and non-teaching staff are provided. The institute promotes higher education faculties, short-term courses, conferences, workshops, and seminars with financial help. Financial assistance is offered to non-teaching personnel to seek skill development. All employees are covered by group medical insurance. All employees at the college are evaluated on a systematic basis. Faculty members evaluate their own performance, which is validated by the department head and principal. For internal audits, a dedicated, well educated team is appointed by management and for external audits, the institution appoints chartered accountants on half yearly basis. After the audit, reports are sent to management. The IQAC is operational, and its primary responsibility is to mobilize and lead the institution's QMS. IQAC collaborates with NAAC and the NBA to establish a quality management system and adhere to the institute's basic quality criteria.

Institutional Values and Best Practices

Our Mentor-Mentee program has improved academic achievement and inspired confidence in youngsters. In recognizing and dealing with personal concerns, each faculty member supervises the intellectual development of a handful of students and supports them in shaping their professional lives. Mentors also communicate with parents if required. Every fortnight faculty members conduct meetings with students and once in a year with parents.

With the practices of experiential learning institute aims for 360 degree approach for development of students personality and grooming them to make industry ready. Workshops, seminars, conferences are organized to provide students and faculty exposure to current technologies and research. It helps to broaden their knowledge and experience across fields.

To promote a more inclusive atmosphere, more decentralized governance through constituting committees is available at institute. Procurement, anti-ragging, sexual harassment, hygiene and sanitation are only a few of the concerns that have been addressed by several committees at the institution. This method has resulted in increased emotional commitment in the workplace, improved governance, and faster redress as well as decision-making.

Making participation in NCC/ NSS/ Swacchha Bharat Abhiyan essential for undergraduate students instills civic responsibility. Tree plantation, blood donation camps and other socially important activities have all been carried out through these groups.

National and international funding bodies have awarded extramural funds to teaching faculty.

The institution maintains an environmentally friendly atmosphere by conserving energy by using large

windows inside lecture halls to maximize the use of natural light as well as replacing traditional lighting systems with CFL lighting systems, as well as other energy-saving initiatives.

Biannual Prayas and NSS camps are held at the college to instill the principles of planting and a plastic-free environment in the students and faculty. For the college's general academic progress and good management, the Principal and teaching staff maintain proper networking amongst parents and alumni. The institution that aspires to be a unique institution in the country is prepared to take any risk in its pursuit of academic greatness.

NAAC

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	SINHGAD TECHNICAL EDUCATION SOCIETY SMT. KASHIBAI NAVALE COLLEGE OF ENGINEERING
Address	SURVEY NO. 44/1, OFF SINHGAD ROAD, VADGAON BK. PUNE, MAHARASHTRA, 411041
City	Pune
State	Maharashtra
Pin	411041
Website	http://skncoe.sinhgad.edu

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	Arvind Vinayak Deshpande	020-24354938	9881000780	020-24100295	principal.skncoe@sinhgad.edu
IQAC / CIQA coordinator	Manoj Limchand Bangare	020-24100163	9850015736	020-24100323	iqac_skncoe@sinhgad.edu

Status of the Institution	
Institution Status	Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	No

Establishment Details				
Date of establishment of the college		01-01-2001		
University to which the college is affiliated/ or which governs the college (if it is a constituent college)				
State	University name	Document		
Maharashtra	Savitribai Phule Pune University	View Document		
Details of UGC recognition				
Under Section	Date	View Document		
2f of UGC	17-02-2018	View Document		
12B of UGC	17-02-2018	View Document		
Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)				
Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	View Document	02-07-2021	12	AICTE EOA is valid for current academic year

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

Recognitions	
Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	No

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	SURVEY NO. 44/1, OFF SINHGAD ROAD, VADGAON BK. PUNE, MAHARASHTRA, 411041	Urban	50.38	30872.15

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BE,Computer Engineering	48	HSC or Diploma for DSE	English	300	300
UG	BE,Electronics And Telecommunication Engineering	48	HSC or Diploma for DSE	English	300	294
UG	BE,Information Technology	48	HSC or Diploma for DSE	English	120	120
UG	BE,Mechanical Engineering	48	HSC or Diploma for DSE	English	330	16
PG	ME,Computer Engineering	24	BE or B.Tech	English	18	4
PG	MBA,Master Of Business Administration	24	Graduation in any field	English	60	60
Doctoral (Ph.D)	PhD or DPhil,Computer Engineering	60	ME or M.Tech	English	26	19

Position Details of Faculty & Staff in the College

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	15				38				144			
Recruited	4	1	0	5	5	0	0	5	36	19	0	55
Yet to Recruit	10				33				89			
Sanctioned by the Management/Society or Other Authorized Bodies	0				0				138			
Recruited	0	0	0	0	0	0	0	0	44	94	0	138
Yet to Recruit	0				0				0			

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				1
Recruited	1	0	0	1
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				111
Recruited	71	40	0	111
Yet to Recruit				0

Technical Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				37
Recruited	20	17	0	37
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	4	1	0	5	0	0	7	7	0	24
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	73	106	0	179
UG	0	0	0	0	0	0	0	0	0	0

Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	0	0

Part Time Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	0	0

Details of Visting/Guest Faculties					
Number of Visiting/Guest Faculty engaged with the college?	Male		Female		Total
	0	0	0	0	0

Provide the Following Details of Students Enrolled in the College During the Current Academic Year

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	3340	181	0	0	3521
	Female	1033	34	0	0	1067
	Others	0	0	0	0	0
PG	Male	73	2	0	0	75
	Female	64	1	0	0	65
	Others	0	0	0	0	0
Doctoral (Ph.D)	Male	37	0	0	0	37
	Female	38	0	0	0	38
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years					
Programme		Year 1	Year 2	Year 3	Year 4
SC	Male	48	82	97	95
	Female	21	26	18	32
	Others	0	0	0	0
ST	Male	4	6	1	1
	Female	1	1	4	0
	Others	0	0	0	0
OBC	Male	125	245	342	193
	Female	70	70	65	38
	Others	0	0	0	0
General	Male	282	387	450	375
	Female	103	115	135	115
	Others	0	0	0	0
Others	Male	128	232	238	190
	Female	54	62	85	52
	Others	0	0	0	0
Total		836	1226	1435	1091

Institutional preparedness for NEP

<p>1. Multidisciplinary/interdisciplinary:</p>	<p>As per Vision of National Education Policy, institute effectively provides various platforms for high quality education which will help to develop human resources in Bharat as global citizens. As institute is affiliated to SPPU, there is limited scope for interdisciplinary education, however, affiliated university has redesigned the curriculum and incorporated “open elective” in 2012 course revised syllabus so that students get flexibility to choose elective courses offered by other departments. Institute strongly believes that multidisciplinary education is significantly better than one-dimensional education. In the institute various platforms like Go Carting, Supra, Baja, Robotics, E-cell, Incubation</p>
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	<p>centre, are provided where students from Mechanical, Computer, IT and E&TC departments work together for multidisciplinary research. IQAC of institute is keen for further rise the depth of multidisciplinary approach. In short, institute has few mechanisms addressing multidisciplinary education and is proactively working towards implementation of the suggestions given in the NEP.</p>
<p>2. Academic bank of credits (ABC):</p>	<p>The institution preparedness in implementation of Academic Bank of Credits depends upon the guidelines of the affiliated university and Higher Education Department, Maharashtra state.</p>
<p>3. Skill development:</p>	<p>Institute is very keen about skill development of students as well as faculty. Every year, as a part of STP, Value Added Programs are conducted for final year students. VAP consists of various modules related to latest technologies. Students opt VAP module as per their interest. Student Training Program (STP) is unique initiative by institute to make the students industry ready. It is divided in five modules which address training on soft skills, communication skills, technical skills, Value Added Programs and interview preparation. Duration of STP is 120 hours and objectives of this initiative are To Enhance the employability opportunity To Prepare students for entrepreneurship To prepare students for higher education in India as well as abroad For faculty, various FDPs and workshops are conducted in the institute and faculty are encouraged to attend skill development workshops in the reputed institutes.</p>
<p>4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):</p>	<p>Being a professional institute , courses delivery is always in English language whereas to grasp the contents easily, teachers many times repeat concepts in national language Hindi and local language Marathi. Also during interaction with students, local language of students is preferred to make them comfortable. Institutes gives exposure to students for participation in Purushottam Karandak, which is an annual inter-collegiate Marathi one -act play competition where students from across Maharashtra participate. Also to nurture the Indian culture, institute motivates students and faculty to celebrate Indian festivals and participation in Firodiya Karandak which consists of drama competition and other elements like, sculpture, pottery, painting, orchestra, puppet dancing.</p>

<p>5. Focus on Outcome based education (OBE):</p>	<p>All these programmes in the institute are offered as outcomes-based education (OBE) which are designed by affiliating university focusing on skills and knowledge requirements. Institute has implemented Outcome-Based Education with clearly stated Vision, Mission, Program Educational Objectives (PEOs), Program Specific Outcomes (PSOs), Programme Outcomes (POs), and Course Outcomes(COs). The Course Outcomes are also mapped to the PO& PSO and attainment is calculated. The course delivery and assessment is carried out considering various cognitive abilities namely Remembering, Understanding, Applying, Analyzing, Evaluating and Creating. Apart from the domain-specific skills, learning outcomes at various levels ensure social contributions, lifelong learning and ethics- morals, as well as entrepreneurship development, leadership skills and teamwork. This motivates students to contribute proactively and effectively for development of individual and society by all means.</p>
<p>6. Distance education/online education:</p>	<p>During Covid -19 pandemic, institute started online education fully and effectively using digital platforms for conducting classes, workshops, seminars, guest lectures, conferences, meetings and examination. In spite of certain challenges like lack of face to face learning, by breaking the geographical barriers, online education has proved effective and efficient way for interaction among teachers, mentors, alumni, guest speakers and students from distant geographies. It has accelerated digitization at an unprecedented rate. Post pandemic, institutes have been forced to adopt hybrid mode of education combing online and offline resources. This can be considered as the new normal, which is envisaged in New Education Policy as well. Due to the experience gained during the closure period of Covid-19, access to online resources by educators and students will not be a constraint anymore. Faculties are encouraged to offer MOOC courses to students at institute which promotes the blended learning system of learning.</p>

Extended Profile

1 Program

1.1

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

2020-21	2019-20	2018-19	2017-18	2016-17
567	536	567	538	508
File Description		Document		
Institutional data prescribed format		View Document		

1.2

Number of programs offered year-wise for last five years

2020-21	2019-20	2018-19	2017-18	2016-17
7	7	8	11	11

2 Students

2.1

Number of students year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
4682	4239	4517	5037	5120
File Description		Document		
Institutional data in prescribed format		View Document		

2.2

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

2020-21	2019-20	2018-19	2017-18	2016-17
527	613	517	498	475

File Description	Document
Institutional data in prescribed format	View Document

2.3

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

2020-21	2019-20	2018-19	2017-18	2016-17
1261	1293	1321	1286	1279

File Description	Document
Institutional data in prescribed format	View Document

3 Teachers

3.1

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

2020-21	2019-20	2018-19	2017-18	2016-17
189	196	205	254	213

File Description	Document
Institutional data in prescribed format	View Document

3.2

Number of sanctioned posts year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
225	203	209	317	309

File Description	Document
Institutional data in prescribed format	View Document

4 Institution

4.1

Total number of classrooms and seminar halls

Response: 56

4.2

Total Expenditure excluding salary year-wise during last five years (INR in Lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
507.20	706.37	864.19	870.83	1539.33

4.3

Number of Computers

Response: 889

NAAC

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

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

Response:

Institution puts rigorous efforts for effective curriculum delivery and follows the process described below:

- 1. Semester Planning:** Before the commencement of academic semester, the institute prepares Academic Calendar according to SPPU academic calendar. All Departments follow the institute academic calendar.
- 2. Load distribution, elective finalization, time table preparation and resource planning:** Counseling of students for electives is carried out well in advance. Accordingly, the elective choice sheet is circulated among the students for confirmation. At the end of the semester, subject choices for next semester are taken from the faculty. This choice sheet includes preferences, the number of times subject taught. As per choices from faculty and their expertise, HoD allots courses to faculty; it is conveyed in advance to respective faculty for preparation and to time table committee for preparation of time table. Before starting the semester, time table is displayed on the notice board and also conveyed to students on social media groups. Resource planning is done at the start of the semester which focuses on stock verification of laboratories, identifying required software/hardware, consumables, need of repair and maintenance of equipment. Budget is prepared according to need and sanctioned by higher management authorities.
- 3. Course preparation by faculty:** Based on the academic calendar, faculty prepare course teaching plan, course file, laboratory assignment plan, and relevant up-gradation of lab manuals. Guidance and knowledge sharing along with the teaching methodology are decided under the guidance of subject experts' especially senior faculty, under the "Train The Trainer (TTT)" programme before the commencement of every semester.
- 4. Academic Conduct:** For every year (SE/TE/BE) minimum of one faculty coordinator is assigned for smooth conduction and effective implementation of all academic activities. Syllabus completion review is taken on regularly. Student's performance is monitored and evaluated by conducting unit tests, prelim and mock practical and oral examinations, and counseling is done for improvement. A monthly progress report is sent to the parents. A batch of around 20 students is allotted to a TG who conducts regular meetings with the batch to understand their academic and other problems. The problems raised by the students in the TG meeting are solved by counseling and discussion. A separate register is maintained by the TG. Attendance monitoring is done on daily, weekly and monthly basis. Defaulter list is prepared and displayed on the notice board. Parents of defaulter students are personally called and informed accordingly.. Mid-semester submission is done as a part of continuous evaluation. Faculty feedback about conduct is taken in every semester by HoD. Also, student's interaction with TG, Class teacher, coordinator, HoD, Principal is taken as feedback for self-improvements and corrective measures. If feedback is not satisfactory, counseling of the faculty is done by HoD.
- 5. Project Coordination:** Coordinators are assigned for final year projects, mini projects and PBL. Research profiles of faculties are displayed in the faculty cabin/office. Students according to their

research interests approach the respective faculty member to finalize their problem statement of in-house/industry-sponsored projects. The progress of an individual project is periodically monitored through the review panel.

File Description	Document
Link for Additional information	View Document

1.1.2 The institution adheres to the academic calendar including for the conduct of CIE

Response:

- As per the directives of SPPU, academic calendar is prepared at institute level. Based on Institute's academic calendar, all the departments prepare their academic calendar including the events, curricular, co-curricular and extra-curricular activities.
- The university propose the dates for commencement and conclusion of semester, in-semester, end semester, online examination, term work / Practical /Oral examinations and this schedule is reflected in institutes as well as department's academic calendar and this schedule is strictly followed by all the departments.
- Teaching plan is prepared by each faculty which adheres to the academic calendar. Department monitoring committee has standard procedure of monitoring activities that ensures smooth conduction of lectures and practical sessions. Attendance of student is daily observed. Absences of student is communicated to parents. If the students having attendance is less than 75%, then he has to attend the make-up classes of respective subjects. Status of syllabus completion, defaulter students is reviewed by HOD, class teacher and teacher guardian.
- As per academic calendar class test /assignment /seminar / tutorials / guest lectures / industrial visits / value addition courses, etc. are conducted. Reports of class test and assignments are taken as a part of internal evaluation.
- As per the schedule, unit test / prelim exam are conducted centrally and the report of the same along with the attendance are communicated to students as well as parents. For poor performance or any absentee of students, parents of such students are called for counseling of student and to take corrective measures.
- The continuous assessment of Practical / Term work is done based on record received.
- Value addition courses are planned in advance and its implementation is according to activity calendar. Similarly mapping of planned and conducted activities is verified.
- Students are encouraged to select the project as per the society need, industry problems, and innovative rural based projects which will help to solves local need problems.
- Student's feedback is taken twice in a semester regarding faculty performance, and the report is communicated to the concerned faculty through HOD for continual improvement.
- Learning process is conducted as per the schedule for slow learners as well as advance learners. Apart of this, the remedial classes for the backlog students are conducted along with slow learners.
- If any deviation in curriculum implementation, it is responsibility of the concerned faculty to plan and rectify the deviation.
- The continuous improvement is achieved through periodic audits and satisfying statutory requirements. A strong teaching learning process is created through quality management system following IQAC guidelines.

File Description	Document
Link for Additional information	View Document

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 last five years

1. Academic council/BoS of Affiliating university
2. Setting of question papers for UG/PG programs
3. Design and Development of Curriculum for Add on/ certificate/ Diploma Courses
4. Assessment /evaluation process of the affiliating University

Response: A. All of the above

File Description	Document
Institutional data in prescribed format	View Document
Link for Additional information	View Document

1.2 Academic Flexibility

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

Response: 85.71

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

Response: 6

File Description	Document
Institutional data in prescribed format	View Document
Link for Additional information	View Document

1.2.2 Number of Add on /Certificate programs offered during the last five years

Response: 208

1.2.2.1 How many Add on /Certificate programs are offered within the last 5 years.

2020-21	2019-20	2018-19	2017-18	2016-17
43	75	48	19	23

File Description	Document
List of Add on /Certificate programs	View Document
Link for Additional information	View Document

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

Response: 44.44

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

2020-21	2019-20	2018-19	2017-18	2016-17
2130	2356	3200	1230	1324

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

1.3 Curriculum Enrichment

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

Response:

The present curriculum of the SPPU has many courses in programs conducted in institute, which address professional ethics, gender, human values, environment and sustainability related issues.

The curriculum has incorporated Professional Ethics issues in few courses which are as follows:

- **Ethics and Values in Information Technology:** In the realm of information technology, to comprehend and apply the values, principles and to develop trustworthy and responsible professionals in the field of information technology this course is introduced.
- **Cyber and Information Security:** This course includes basics of Information Technology, basics of Indian Legal System, Information Technology Act 2000 (Amended), Relevant Amendments, etc. The essence of digital contracts, Law of Contract, Construction of E-contracts, Issues of security, Employment contracts, Consultant Agreements and Digital signature, etc. are considered.

The curriculum has incorporated Human Values issues in few courses which are as follows:

- **Information and Cyber Security:** This course highlights the concept related to digital vulnerability and students learn to protect data from malicious users or intruder.
- **Human Behavior:** This course includes human behavior in the responses of individuals or groups of humans to internal and external stimuli. It refers to the array of every physical action and observable emotion associated with individuals, as well as the human race.
- **Skill development:** This course introduces the skills required in an industry such as design, development, assembly and disassembly. It develops the skills required for fault diagnose of engine and transmission of different automotive and various home appliances.

The curriculum has incorporated environment and sustainability issues in few courses which are as follows:

- **e-Waste Management and Pollution Control:** This course highlights the necessity of studying the environment and investigate the societal impact of professional engineering goods.
- **Industrial Engineering:** This course teaches students to apply the Industrial Engineering concept in the industrial environment, manage and implement different concepts involved in methods study and understanding of work content in different situations.
- **Green Energy:** This course provides an introduction to energy systems and renewable energy resources, with a scientific examination of the energy field and an emphasis on alternate energy sources and their technology and application.
- **Energy Audit and Management:** This course highlights maximum use of renewable energy sources, importance of energy conservation and management.

Gender equality issues as part of the curriculum is covered in co-curricular activities.

- Co-curricular activities address gender equality concerns as part of the curriculum. Through departmental association activities, both girls and boys participate equally in various curricular / co-curricular activities such as project group, seminars, paper presentations, group discussion, technical quiz, debate, extempore, and so on.
- Under the direction of the department associations PRAYAS and NSS, all departments organize numerous on-going and above-the-line activities linked to cross-cutting concerns (such as fresher's parties, farewells, quizzes, and so on).
- The girls and boys participate equally in various curricular / co-curricular activities through departmental association.

File Description	Document
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	View Document

1.3.2 Average percentage of courses that include experiential learning through project work/field work/internship during last five years

Response: 5.73

1.3.2.1 Number of courses that include experiential learning through project work/field work/internship year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
36	32	33	29	26

File Description	Document
Programme / Curriculum/ Syllabus of the courses	View Document
MoU's with relevant organizations for these courses, if any Average percentage of courses that include experiential learning through project work/field work/internship	View Document
Any additional information	View Document

1.3.3 Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year

Response: 78.64

1.3.3.1 Number of students undertaking project work/field work / internships

Response: 3682

File Description	Document
List of programmes and number of students undertaking project work/field work/ /internships	View Document
Any additional information	View Document

1.4 Feedback System

1.4.1 Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders 1) Students 2)Teachers 3)Employers 4)Alumni

Response: E. None of the above

File Description	Document
Any additional information (Upload)	View Document
URL for stakeholder feedback report	View Document

1.4.2 Feedback process of the Institution may be classified as follows: Options:

1. Feedback collected, analysed and action taken and feedback available on website
2. Feedback collected, analysed and action has been taken
3. Feedback collected and analysed
4. Feedback collected
5. Feedback not collected

Response: E. Feedback not collected

File Description	Document
Upload any additional information	View Document
URL for feedback report	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Average Enrolment percentage (Average of last five years)

Response: 74.93

2.1.1.1 Number of students admitted year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
767	841	695	1121	1115

2.1.1.2 Number of sanctioned seats year wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
1158	1158	1176	1242	1290

File Description

Document

Institutional data in prescribed format

[View Document](#)

Any additional information

[View Document](#)

2.1.2 Average percentage of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy) during the last five years (exclusive of supernumerary seats)

Response: 67.53

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

2020-21	2019-20	2018-19	2017-18	2016-17
377	377	309	369	336

File Description

Document

Average percentage of seats filled against seats reserved

[View Document](#)

Any additional information

[View Document](#)

2.2 Catering to Student Diversity

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

Response:

Students get admitted in the first year and in the second year through DTE. An induction program is arranged and conducted to motivate them and familiarize them with the university curriculum and the resources available at the institute like a library, different laboratories, canteen, various departments, open area, sports ground, workshop. The institute has a see-through mechanism to identify the learning levels of the students which is based on their academic performance. Slow learners are also identified on the basis of marks obtained by students in internal examinations. Advanced learners are identified based on the performance of students in University Examination.

Initiatives for Assisting Slow learner

- 1) Remedial classes are conducted by respective subject teachers .The size of the remedial class is limited, in order to ensure proper care and attention towards the learners.
- 2) Academic and personal counselling is given to the slow learners by the tutor, mentor during remedial class and teacher guardian meeting.
- 3) The performance of students is communicated to parents through SMS and phone calls.
- 4) Parent Teacher Meetings are conducted periodically to have interaction between faculty members and the parents to discuss the progress of their wards

Initiatives for the advanced learners

Students are guided for various Competitive Examinations like GATE, GRE, MPSC, UPSC etc. Students are motivated to enroll for different certifications courses like Spoken-Tutorials arranged by IIT Bombay. The students having orientation towards research are supported by faculty members to conduct their research in the right direction and publish their work in National / International Conferences / Journals. Students are supported to complete internships to get additional knowledge in their domain. Motivation and support is provided to attend conferences, workshops, and project competitions. Value addition programmes are arranged for students. Students are encouraged for higher education. Students are encouraged to apply for web based online courses like NPTEL, SWAYAM, which gives them a platform to choose the courses of their interest. Students are taking active participation in different technical clubs like Robotics, Stallion Motor Sports, Efcycle, Go carting. Also advanced learners are motivated to showcase their skillset in co curricular and extra curricular activities.

Outcomes-

After taking initiatives for slow learners, these students have shown better performance in University examinations.

After taking initiatives for advanced learners, these students have participated in various events like spoken tutorials, value addition programmes. Such students have published papers in conferences, journals and have shown better performance in placements also.

Thus the institute has a systematic procedure in place for assessing the learning levels of students and motivating them to engage into the academics along with all other activities on the campus for grooming them into a skillful engineer.

File Description	Document
Upload any additional information	View Document
Past link for additional Information	View Document

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

Response: 24.77

File Description	Document
Any additional information	View Document

2.3 Teaching- Learning Process

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

Response:

At SKNCOE, a variety of student-centric activities are organized to improve the quality of teaching and learning. Experiential learning, participative learning, and problem-solving approaches are employed at various stages and levels to improve students' learning opportunities.

Experiential learning:

Experiential learning is the process of learning by doing and reflecting on one's own experiences. Through mini projects, final year projects, student seminars, student training programs, ISRO outreach programmes, value added programs, workshops, internships, and industry visits, institute encourage students to exercise a variety of technical and non-technical skills. As per curriculum, students are expected to carry out project

work beginning in the fourth semester under the new curriculum, which introduced project-based learning. As a result, students were expected to carry out project work beginning in the sixth semester. Students participate in events like ROBOCON, M-BAJA, Techtonic, Puroshottam Karandak, Firodiya Karandak, Hackathon, Formula Bharat, STES Rocketary, Stallion Aero, Stallion Efficycle, Stallion Karting at state / National and International level.

Participative learning:

Institute always endeavour to improve learning experience of students in class by using numerous interactive and participatory tactics like Collaborative Learning, active Learning. This help learners develop a sense of responsibility and turn learning into a process of knowledge building. Faculty encourages students to participate in professional society activities in their own domains as well as general ones such as the IETE Student Forum (ISF), ELESA Students Body, ACE, SAE, Sinhgad Students Council (SSC) and Entrepreneurship Cell (E-cell), which promotes knowledge in a variety of topics and technology. Many students present their work at national and international conferences and publish their research articles in reputable journals.

Students are encouraged to engage in a variety of national and international workshops and seminars. Many students did specialist certification from IIT Bombay spoken tutorials in addition to their enrolled program, which helped them in pursuing their higher education and research work.

The institute has tie up with Amazon web services academy, Google cloud to impart knowledge to the students in advanced technology.

Student's Training Programs (STP) are conducted to enhance communication skill, improve reading, listening , writing and speaking abilities, and revise basic fundamentals of core subjects.

Problem based learning:

By solving real-world challenges, design problems, and case studies, students are exposed to a variety of problem-solving approaches. Students can use problem-solving activities to not only apply concepts they've learned, but also to help them build abilities including formulating problems and sub-problems, generating solutions, identifying constraints, and analyzing and selecting answers. Course-Based Projects/ Industry sponsored projects and Project-Based Learning are examples of problem-solving methodologies used in the institution. Every year, students compete in a project competition in which they present their ideas and receive constructive critique from a panel. Students' talents increase when they learn in bright ways.

Students are supported by the faculty to encourage them to apply real time applications to promote overall learning by arranging motivational seminars and subject specific expert lectures by renowned industry persons. This provides the students a platform to become self-learners and lifelong learners.

File Description	Document
Upload any additional information	View Document
Link for additional information	View Document

2.3.2 Teachers use ICT enabled tools for effective teaching-learning process.

Response:

ICT tools can be used in the education process to explore, find, exchange & present information which can be accessible to more students and teachers. ICT enables us to provide quicker access to a wide variety of people, communities and cultures.

ICT contributions under teaching and learning are the activities that contribute to enhancing the performance of student learning. The faculty use various ICT enabled tools to enhance the quality of teaching learning like-

- 1) The institute campus is enabled with Wi-Fi connection.
- 1) Google classroom is used to manage and post course related information – learning material, quizzes, lab submissions and evaluations, assignments etc.
- 2) Microsoft Teams platform is used to record and deliver the lectures. All lectures are saved in sharepoint for reference of students.
- 3) Institute has its own IIT Bombay Virtual lab Nodal Centre. This centre is used for creating multiple student accounts where faculties can check the practicals performed by individual students.
- 4) Swayam-NPTEL chapter was established in 2014. Many faculties and students have Completed the course and are awarded with certifications.

<https://nptel.ac.in/LocalChapter/statistics/1010/>
- 5) Faculties owned YouTube channels are created for sharing and streaming online lectures
- 6) The Mechanical department has a digital classroom solution with broadcasting accessories and an interactive panel of 65”
- 7) Classrooms and laboratories are equipped with LCD projectors and Overhead projectors with internet facilities.

File Description	Document
Upload any additional information	View Document
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	View Document

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

academic year)

Response: 29.08

2.3.3.1 Number of mentors

Response: 161

File Description	Document
Upload year wise, number of students enrolled and full time teachers on roll.	View Document
mentor/mentee ratio	View Document
Circulars pertaining to assigning mentors to mentees	View Document

2.4 Teacher Profile and Quality

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

Response: 85.54

File Description	Document
Year wise full time teachers and sanctioned posts for 5years(Data Template)	View Document
List of the faculty members authenticated by the Head of HEI	View Document
Any additional information	View Document

2.4.2 Average percentage of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. during the last five years (consider only highest degree for count)

Response: 9.9

2.4.2.1 Number of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. year wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
26	22	22	16	16

File Description	Document
List of number of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. and number of full time teachers for 5 years (Data Template)	View Document
Any additional information	View Document

2.4.3 Average teaching experience of full time teachers in the same institution (Data for the latest completed academic year in number of years)	
Response: 6.42	
2.4.3.1 Total experience of full-time teachers	
Response: 1213.25	
File Description	Document
List of Teachers including their PAN, designation, dept and experience details(Data Template)	View Document
Any additional information	View Document

2.5 Evaluation Process and Reforms

2.5.1 Mechanism of internal assessment is transparent and robust in terms of frequency and mode
Response:
<p>The internal assessment system is transparent and carried out in a systematic manner. Theory courses, Laboratory courses, Seminars and Project works, Project based learning are evaluated internally. During the induction program, students admitted in first year and direct second year are oriented by the personnel from the examination cell regarding the evaluation system (both internal and external). The changes in the evaluation system, if any, are communicated to the students. A detailed academic calendar is available on the website and notice-boards of the Departments. Thus, students know about the dates of examinations well in advance so that they can plan their study accordingly. Students are made aware of various parameters of internal evaluation system</p> <p>For theory courses, internal exams like Unit test and Prelim are conducted during each semester. The answer sheets of internal examinations are distributed to the students after evaluation to find out discrepancies. If any kind of discrepancy is found, students convey it to the concerned teacher. The necessary corrections are carried out by the concerned teacher and conveyed to the examination coordinator.</p> <p>In Laboratory courses, assessment is done in each laboratory session and marks are given for performance, understanding and timely submission of experiment and record is maintained in Progressive practical</p>

internal assessment record.

The consolidated marksheets of each internal examination is displayed on the department notice board and the same is communicated to the parents.

Project work and Seminar work evaluations are carried out by respective committees based on the rubrics defined by considering various parameters. The rubrics are informed well in advance to students at the beginning of the semester. These internal evaluations reports are used for granting term work marks.

The continuous evaluation of students is done by University examination as well as internal examinations and continuous assessment carried out at institute level. The evaluation of teaching learning process is carried out as shown in **Figure 2.5.1**

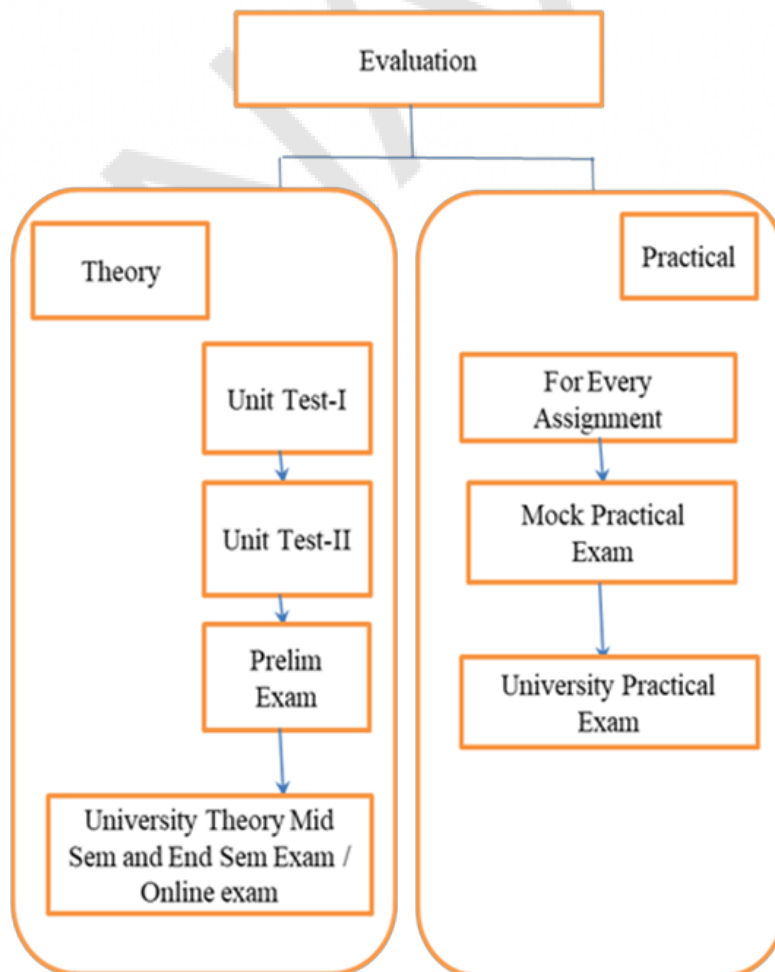


Figure 2.5.1 : Evaluation Procedure

File Description	Document
Any additional information	View Document
Link for additional information	View Document

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

Response:

Internal examination related grievances are handled by the respective subject teacher, teacher guardian, class teacher, head of department and internal examination incharge to make it time bound & transparent. Internal examination answer scripts are distributed to the students as regard to total checking and for clarifications if any. The exam section displays the statement of internal marks as submitted by the respective faculty member of the department on the department notice board. In case of any grievances, the following procedure is used to handle grievances.

- 1) Students approach their respective subject teacher for clarification related to internal marks with a written application addressing that particular subject teacher.
- 2) Respective subject teacher will reassess the answer script submitted by the student.
- 3) The subject teacher will forward his/her recommendation to the internal examination incharge. Accordingly action will be taken by internal examination incharge.
- 4) If the grievance is not attained by the subject teacher, the student approaches the teacher guardian, class teacher and head of department. The grievance will be routed to the subject teacher through any one of the teacher guardians, class teacher and head of department. The subject teacher will reassess the answer script submitted by the student and will forward his/her recommendation to internal examination incharge.

If the grievance is related to marks of Term work in University exam, then it is attended by the Principal. The appropriate action is taken against the concerned by an appointing authority of Sinhgad Technical Education Society in consultation with the Principal.

Mechanism to deal with internal exam related grievances is shown in Figure 2.5.2

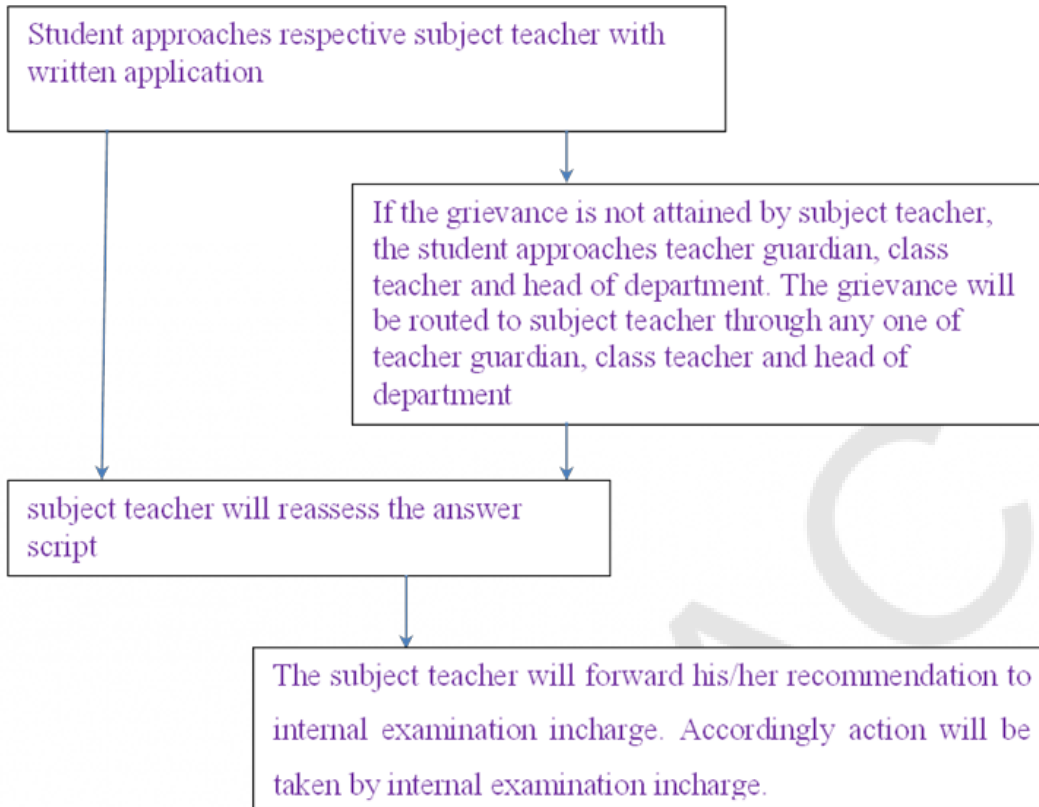


Figure 2.5.2: Flow chart showing Mechanism to deal with internal examination related grievances

File Description	Document
Any additional information	View Document
Link for additional information	View Document

2.6 Student Performance and Learning Outcomes

2.6.1 Programme and course outcomes for all Programmes offered by the institution are stated and displayed on website and communicated to teachers and students.

Response:

Srimati Kashibai Navale College of Engineering, Pune is affiliated to Savitribai Phule Pune University, therefore academic calendar, syllabus and examination scheme are followed as directed by the university. The Program Outcomes (PO) are formulated taking into account twelve graduate attributes that an engineer should have after completing all courses in the respective program given by National Board of Accreditation. Depending on the field of specialization and courses taught in the program, Program Specific Outcomes (PSO) are framed by the department which are matched with the department's vision

and mission. Course Outcomes are a comprehensive set of learning objectives that are nurtured and developed across that particular course. These Course Outcomes are essential learning outcomes that students should be able to achieve at the end of the course based on the content of the curriculum. Savitribai Phule Pune University has specified Course Outcomes for all courses and institute has developed certain objectives such as to create an academic environment in the institute and also to improve the efficiency and effectiveness of the course content delivery. However, Course Outcomes are modified in consultation with senior faculty members and written by respective faculty members using action verbs of learning levels as per Bloom's taxonomy. Course Outcomes are appropriately mapped to the Program Outcomes and Program Specific Outcomes. Each faculty member discusses all Course Outcomes for their respective subject during introductory lecture to all students studying the particular course. For each course, COs are mapped to POs as well as PSOs through CO-PO matrix and CO-PSO matrix respectively with different correlation levels from 1 to 3. The various correlation levels are:

“1” – indicates low correlation level

“2” - indicates moderate correlation level

“3” – indicates high correlation level

? “ - “ - indicates no correlation.

Each faculty member decides the appropriate policy to be followed for calculation of CO attainment. Attainment of particular COs, POs and PSOs starts from writing appropriate and valid COs for each course which is followed by mapping it with POs and PSOs at specific level and then calculating the attainment of COs, POs and PSOs by considering courses from all semesters for an academic year of that particular program.

The Program Outcomes, Program Specific Outcomes and Course Outcomes are disseminated through various means. The Program Specific Outcomes and Program Outcomes are displayed on the institute website, department notice board, laboratories, Head of department cabin etc. PSOs and COs are also disseminated to course files and lab manuals. Students can go through all of these using a learning management system, course introduction lectures or orientation program for respective semesters. Besides this, PSOs and COs are made available to all the stakeholders of the program during induction programs and meetings.

File Description	Document
Upload COs for all Programmes (exemplars from Glossary)	View Document
Upload any additional information	View Document
Past link for Additional information	View Document

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

Response:

Course Outcome of each course is mapped with Program Outcome and Program Specific Outcome at appropriate level. Thus, the attainment level for each course is calculated depending on the student's performance in internal and external assessments. Attainment of Course Outcome, Program Outcome and Program Specific Outcome is calculated for every course of each semester by using direct and indirect assessment tools. Direct assessment tools are prepared for ensuring the correct working of assessment methods in order to utilize student course work as a grading method and data for verifying student learning objectives.

For each course in particular semester unit test examinations are conducted to enhance the learning capacity of the student. The Program Outcome attainment is done by assessment of each course outcomes for every course. The academic performance of each student is taken into consideration for evaluating the degree of assessment of the respective Program Outcome. The attainment of program outcome is also evaluated by considering performance in mock practical, seminar and projects. University results for particular courses are also taken into consideration as a part of a direct assessment tool. As the attainment of skills cannot be quantified directly, certain rubrics are developed by considering appropriate criteria by the department to assess the performance of each student; while working in laboratories, giving presentations of their projects, submission of technical reports and participation in co-curricular and extra-curricular activities. Course Exit Survey is a tool used for measuring the indirect assessment. All the faculty members make use of direct and indirect assessment tools rigorously for all programs throughout the semester. The attainment of Course Outcomes is computed for all courses in each program usually with 80% weightage for direct assessment and 20 % weightage for indirect assessment. Therefore,

CO Attainment = 80% Direct Assessment + 20% Indirect Assessment.

Indirect Assessment consists of Unit test performance, Prelim exam performance, University Result and Continuous Assessment whereas Course Exit Survey is only considered as the tool for indirect assessment. For Unit Test Exam, students securing more than 60% marks are set to have attainment level of 3, students securing more than 50% but less than 60% are set to have attainment level of 2 whereas students securing more than 40% marks but less than 50% are set to have attainment level of 1. In some cases, appropriate levels of attainments may be refined to cater the difficulty levels of certain subjects.

File Description	Document
Upload any additional information	View Document
Paste link for Additional information	View Document

2.6.3 Average pass percentage of Students during last five years

Response: 96.69

2.6.3.1 Number of final year students who passed the university examination year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
1260	1288	1266	1188	1224

2.6.3.2 Number of final year students who appeared for the university examination year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
1261	1293	1321	1286	1279

File Description	Document
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	View Document
Upload any additional information	View Document

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Response: 3.36

File Description	Document
Upload database of all currently enrolled students (Data Template)	View Document

Criterion 3 - 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, Chairs in the institution during the last five years (INR in Lakhs)

Response: 20.8

3.1.1.1 Total Grants from Government and non-governmental agencies for research projects, endowments, Chairs in the institution during the last five years (INR in Lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
0	4	6	4	6.8

File Description

Document

List of endowments / projects with details of grants

[View Document](#)

e-copies of the grant award letters for sponsored research projects / endowments

[View Document](#)

3.1.2 Percentage of teachers recognized as research guides (latest completed academic year)

Response: 4.23

3.1.2.1 Number of teachers recognized as research guides

Response: 8

File Description

Document

Institutional data in prescribed format

[View Document](#)

Any additional information

[View Document](#)

3.1.3 Percentage of departments having Research projects funded by government and non government agencies during the last five years

Response: 40

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

2020-21	2019-20	2018-19	2017-18	2016-17
0	2	3	2	3

3.1.3.2 Number of departments offering academic programmes

2020-21	2019-20	2018-19	2017-18	2016-17
5	5	5	5	5

File Description	Document
Supporting document from Funding Agency	View Document
List of research projects and funding details	View Document
Paste link to funding agency website	View Document

3.2 Innovation Ecosystem

3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

Response:

This Institute provides healthy atmosphere, good infrastructure and necessary resources to inculcate the research aptitude in students and faculties. The Institute provides facilities such as R&D cell and Incubation Center. This facilities helps to both students and faculty to study understand and to create an innovative piece of knowledge. To interact with outside technocrats, an E-cell and III cell are functioning which facilitates both students and faculties to know the practical scenario in the industry. The Institute also have taken initiative to make students aware about the Start Ups by the means of Start-Up Forum, Entrepreneur Talk, and B-Plan Competition. This is required to nurture the skills required for Entrepreneurship.

To transfer the knowledge, this institute conducts various activities like National and International conferences, project competitions, sponsored projects, internships, industrial visits, research paper presentations, workshops, FDP's, guest lectures, etc. The major objective is to nurture and nourish youth's minds. The Institute always encourage students to participate in different competitions at different levels like- National and International levels. The teams of students such as Baja, Supra, Robotics, Epicycle and Rocketry are working successfully under the guidance of various expert faculty members. The active and enthusiastic participation of both students and faculties leads to grabbing various awards successively. It helps students to prosper in the fields of research and innovations in their future.

The other way to transfer the knowledge to the society is to actively sharing the quality contents in the

social groups. Faculties of this Institute are continuously encouraged for a) Creating and publishing video lectures on social media like You Tube channels. In order to expose the students to various dominant and experts from reputed organizations such as IITs, NITs, Centrally Funded Institutes and the top ranked worldwide Universities like MIT, Oxford, etc, the NPTEL chapter is established in the Institute. Through this Chapter an effective implementation of circulation of all the NPTEL lectures/Courses, is special feature of this Institute.

Undergoing through various Memorandum of Understanding (MoU) with the reputed National and International Institutes, is the third way to transfer the knowledge by means of exchange students and faculties. An International Institutes such as Alborg University, University of Galati, Romania have signed the MoU with the Institute. Under this MoUs, number of students and faculties have got an opportunity to interact the International corporates. Similarly number of National level Institutes/Organizations are offering Internship and sponsorship to the students, those who are willing to work with them. Organizing Industrial visits for students is a regular practice of every department in this Institute in order to familiarize students the work culture. Sponsoring Faculty member for pursuing their higher studies is another way to establish a relation with the outside world. Many faculty members have benefitted from this and have upgraded their educational qualification and improved their academic carrier.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

3.2.2 Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the last five years

Response: 24

3.2.2.1 Total number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
9	6	3	2	4

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

3.3 Research Publications and Awards

3.3.1 Number of Ph.Ds registered per eligible teacher during the last five years

Response: 3.13

3.3.1.1 How many Ph.Ds registered per eligible teacher within last five years

Response: 25

3.3.1.2 Number of teachers recognized as guides during the last five years

Response: 8

File Description	Document
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc	View Document
Any additional information	View Document

3.3.2 Number of research papers per teachers in the Journals notified on UGC website during the last five years

Response: 3.87

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

2020-21	2019-20	2018-19	2017-18	2016-17
319	118	128	186	68

File Description	Document
List of research papers by title, author, department, name and year of publication	View Document
Any additional information	View Document

3.3.3 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years

Response: 1.86

3.3.3.1 Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
83	109	102	56	44

File Description	Document
List books and chapters edited volumes/ books published	View Document
Any additional information	View Document

3.4 Extension Activities

3.4.1 Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the last five years.

Response:

The holistic development of all the stake holders is one of the major objectives of the Institute. It encourages regular engagement of students and staff with neighborhood community for their integrated development and persistent community advancement through various activities.

During last five years, students and staff enthusiastically involved themselves in community based activities with neighborhood. The very first program in every academic year is generally organized by First year department. It is an orientation and welcome program for newly admitted students. This program offers an opportunity for the students to interact with society and inculcate social awareness for the holistic development.

As a regular practice, faculties from all departments encourage students for participation in various extension activities by providing platforms for the students. Institute has established various social bodies like NSS, Prayas and Dhyas.

Institute organizes various awareness programs under these cells. For example, during academic year 2020-21, students have enthusiastically organized several awareness programs, workshops with themes like “Make In India”, various day celebrations like “Kargil Vijay Divas”, “National Sports Day”, “Hindi Bhasha Divas” and NSS activities like Cleanliness Drive, Green Environment & Tree Plantation, Webinar on Cancer Awareness and Healthy Lifestyle, Selfie With Tree, Women Entrepreneurship-Opportunities and Challenges, Gender Sensitization, Traffic Rules Awareness, Women Empowerment, awareness about Demonetization and Digital Payment.

The activities carried out related to environment create awareness about the significance of clean environment with respect to health of every species on earth and also contribute to the National Swachh Bharat Abhiyan.

Blood Donation camps are also regularly organized by students to motivate people to donate blood and to educate the community on the beneficial aspects of blood donation. To help the poor and needy students, “Earn and Learn” program is undertaken by the institute under the guidance of SPPU Student Welfare Section. Many students are the beneficiaries of this program.

Students create awareness about traffic rules, road safety, need of helmet by arranging various street plays and by counseling the people violating the rules at traffic signal.

As a token of love and care, students visit old age home and orphanage during festivals. This act of kindness helps students a understanding the joy of giving and making others happy.

NSS cell of institute adopts one village situated nearby every year and try to inculcate these values in the citizens of the village. Camps up to three weeks duration are organized in such adopted village. The students and faculties are establishing healthy relationship with the people in that village and try to solve their day to day problems by means of the program like “Shramdaan”, Tree plantation, Blood donation camps, awareness about save water, cleanliness and hygiene, gender equality, women empowerment, child abuse, cyber crimes in digital era. etc.

As an impact of all these efforts taken by institute, it is observed that many of students have joined the various Non-Government Organizations (NGOs) and various socially active groups and are involving themselves in solving the problems and questions of the community, mainly poor, needy people.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

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

Response: 1

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

2020-21	2019-20	2018-19	2017-18	2016-17
0	1	0	0	0

File Description	Document
Number of awards for extension activities in last 5 year	View Document
e-copy of the award letters	View Document
Any additional information	View Document

3.4.3 Number of extension and outreach programs conducted by the institution through NSS/NCC, Government and Government recognised bodies during the last five years

Response: 122

3.4.3.1 Number of extension and outreached Programmes conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
19	40	23	12	28

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

3.4.4 Average percentage of students participating in extension activities at 3.4.3. above during last five years

Response: 12.32

3.4.4.1 Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations such as Swachh Bharat, AIDs awareness, Gender issue etc. year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
397	833	653	334	633

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

3.5 Collaboration

3.5.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship per year

Response: 11

3.5.1.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship year-wise during the last five years

2020-21	2019-20	2018-19	2017-18	2016-17
6	0	2	0	3

File Description	Document
e-copies of related Document	View Document
Details of Collaborative activities with institutions/industries for research, Faculty exchange, Student exchange/ internship	View Document

3.5.2 Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the last five years

Response: 101

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

2020-21	2019-20	2018-19	2017-18	2016-17
18	26	9	11	37

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

Criterion 4 - 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.

Response:

Since the establishment in 2001 institute has focused on infrastructural facilities like buildings, machinery, equipment, software, books and other learning resources. The physical infrastructure is established as per the prescribed norms of statutory bodies like UGC, DTE and AICTE. There is ample area for academic, administrative infrastructure, sports and cultural activities. The pre-eminent facilities in the institute provides the quality education to students and staff in the teaching learning environment. Whereas the development and upgradation to these facilities is also possible in the present available facilities, which enables the growth of the institute.

The physical facilities for teaching-learning includes 54 classrooms (UG+PG) and 2 seminar halls which are equipped with ICT facilities like PA system, LCD Projector, Internet connectivity, Board and seating arrangement for students with occupancies of about 70 students in a classroom. Institute has 16 tutorial rooms and 57 (UG+PG) state of art laboratories. Each department has fully equipped laboratories with latest state-of-the-art technology and major equipments like spectrum analyzer, RF signal generator, mixed signal oscilloscope, Optical time domain reflectometer, Brinell Hardness tester, ultrasonic wave tester, trinocular microscope, horizontal balancing machine, exhaust gas analyzer and softwares like MATLAB, Microwind, AutoCAD, Automation Studio, red Hot Linux with open source softwares. Models and charts are displayed in laboratory for better understanding of concepts. Institute has 2 Drawing Halls. Institute has 3 workshops with various facilities like fitting, milling, welding, carpentry, center lathe for imparting practical skills. Institute has a Research Laboratory. Institute has supporting academic and administrative rooms.

Institute has Robotics Lab, Research Labs, Industry sponsored special Labs like INTEL Intelligent System Lab, Texas Instruments Lab provide facility to students to work on projects. To nurture culture of innovation at campus, institute has Incubation center which helps students to translate their ideas into reality and upgrade them to the level of commercial value.

Computing facility consists of 3 computer centers, application softwares and open source softwares. The computing facility is well enough for both teachers and students for effective teaching and learning. The IT facilities include network of 889 Computers, 45 Printers, Legal System Software and Application Software, 55 Multimedia Projectors, 42 Mbps of Internet Bandwidth. Internet bandwidth of 250Mbps Std ILL provided by TATA Communications Ltd is available in campus.

T&P office: Institute has adequate infrastructure for conducting training and placement activities.

Central Library with an area of 1655.4 Sqm is located on a multi storied with a seating capacity of 1000. The digital library is equipped with 30 PCs with Wi-Fi and LAN connectivity for fast and seamless access of the Internet for streaming NPTEL lectures and using e-Resources for the benefit of its users. The library includes journals, magazines, and other technology-enabled learning materials for co-curricular activities. Every department has department library with collection of Technical Books, Lab Manuals, University

Question Papers, Project reports of final year students. This material is useful for students to learn about the technical aspects of academics.

For physically impaired students, institute has ramp, wheel chair and washroom with necessary arrangements.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

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

Response:

The institute focuses on overall development of the students through participation in co-curricular and extra-curricular activities. Outdoor and indoor sports and games contribute significantly in grooming students. Qualities like leadership, Team spirit, and competitive spirit can be inculcated amongst the students through such sports activities. Students are encouraged to participate in different sports/Games and cultural activities. Cultural activities are conducted in the seminar halls, Auditorium and open air cultural centre of the institution.

- **Sports and Games**

The institute has a spacious and well equipped indoor-sports room, where students can play games like table tennis, chess, caroms, table tennis, Gym etc. Sufficient area is allocated to outdoor sports and games with adequate facilities. Well laid courts and grounds are available for games such as cricket, long tennis, badminton, basketball, volleyball, throw ball etc. Institution encourages students to participate in intra-college, inter-college, university-level, district level, state-level competitions and national level competitions. Institute has employed well-qualified and experienced physical director, who trains and supervises students actively participating in various sports and games activities and competitions.

- **Cultural Activities**

All the seminar halls, auditorium and open air cultural centre are provided with adequate facilities to conduct various cultural activities. Cultural activities are conducted in these seminar halls and auditorium on different occasions like fresher's day, Annual day and on such other important occasions. Sinhgad Karandak is conducted at open air cultural centre. To bring out and to encourage inherent talents of the students, various Teams are introduced. Students join in these Teams like ANVITA Kala Mandal depending on their interest. Students are encouraged to actively participate and showcase their talent and skills. Students are encouraged to participate in co-curricular and extra-curricular activities in inter-college, inter-university and in National level competitions.

- **Technical Activities**

The institute focuses on overall development of the students through participation in technical activities like Robotics, Supra, E-Baja, and Stallion, Go karting, Efficycle etc. These activities contribute to bringing out latent talent among students, which help to build their overall personality by developing technical skills like design, development, manufacturing, management and leadership qualities. Students are encouraged to participate in National as well as International level competitions.

As a result, students have earned many applauds at various competitions at University, State and National level sports, cultural and technical competitions. Students have bagged prizes in Firodiya Karandak, Purushottam Karandak, Loksatta Karandak, Rajsanman Karandak, IPTA karandak, Kamal Vasant Karandak and Atal Karandak. Students have won many prizes in Fashion Show competition organized by other institutes too.

File Description	Document
Upload any additional information	View Document

4.1.3 Percentage of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc. (Data for the latest completed academic year)

Response: 100

4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 56

File Description	Document
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View Document
Paste link for additional information	View Document

4.1.4 Average percentage of expenditure, excluding salary for infrastructure augmentation during last five years(INR in Lakhs)

Response: 2.41

4.1.4.1 Expenditure for infrastructure augmentation, excluding salary year-wise during last five years (INR in lakhs)

2020-21	2019-20	2018-19	2017-18	2016-17
1.27	9.09	42.44	35.47	23.91

File Description	Document
Upload Details of budget allocation, excluding salary during the last five years (Data Template)	View Document
Upload audited utilization statements	View Document
Upload any additional information	View Document

4.2 Library as a Learning Resource

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

Response:

Data Requirement for last five years: Upload a description of library with,

- Name of ILMS software : EasyLib
- Nature of automation : partially automated
- Version : 6.0
- Year of Automation :2006

Sinhgad Institutes have a central library in a multistoried building with lift facility. The library of SKNCOE is located on the ground floor with a stack area of 255 sq meters. Reading hall located on the third floor of the building has an area of 1145 sq meters with a sitting capacity of 1000. On the fourth floor in the area of 255.4 sq meters Digital library is situated with 30 computers with internet facility. Scanning and printing facility is availed in Digital Library. Canteen is located on the top floor of the building. Library is partially automated with Integrated Library Management System (ILMS) Easy Lib Barcode enabled Version 6.0 that supports inhouse preparation of catalogues and circulation of books. The management software has been active in the library since 2006. In the library the books available are related to Engineering, Management, Basic sciences and humanities total 34707 volumes of 5298 titles. Book bank scheme and earn & learn scheme of SPPU is also provided to students to help them for academic needs.

In addition to books, 128 national journals are available in printed form. Technical magazines are also made available to students for reference. NPTEL Video lectures available help to update knowledge of students and faculty.

All the library resources are barcoded. All the students and faculty members after registration receive a unique registration number. Circulation of resources is computerized with barcode scan. Computerized Catalogue Search Services are provided for users through the On-line Public Access Catalogue(OPAC).

At the start of the academic year students are given orientation about the functioning of the library. Quarterly meetings are held by the Library advisory committee to take decisions of addition of titles, e-journals and subscription renewals. Full time librarians and supporting staff help students to benefit from the library facility by providing and returning books. Subscription of NDLI Club , IIT Kharagpur helps students and faculty members to access e-resources from <https://club.ndl.iitkgp.ac.in>

Institute has also subscription for e-ShodhSindhu which helps rresearchers to refer different research work carried out by other researchers. The subscription of Knimbus motivates faculty and students to refer different e books, e-journal.

File Description	Document
Upload any additional information	View Document
Paste link for Additional Information	View Document

4.2.2 The institution has subscription for the following e-resources

- 1.e-journals
- 2.e-ShodhSindhu
- 3.Shodhganga Membership
- 4.e-books
- 5.Databases
- 6.Remote access to e-resources

Response: A. Any 4 or more of the above

File Description	Document
Upload any additional information	View Document
Details of subscriptions like e-journals, e-ShodhSindhu, Shodhganga Membership , Remote access to library resources, Web interface etc (Data Template)	View Document

4.2.3 Average annual expenditure for purchase of books/e-books and subscription to journals/e-journals during the last five years (INR in Lakhs)

Response: 0.9

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

2020-21	2019-20	2018-19	2017-18	2016-17
0.18	0.25	00	0.72	3.37

File Description	Document
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the last five years (Data Template)	View Document
Audited statements of accounts	View Document

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

Response: 0.06

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

Response: 3

File Description	Document
Details of library usage by teachers and students	View Document

4.3 IT Infrastructure

4.3.1 Institution frequently updates its IT facilities including Wi-Fi

Response:

All departments are equipped with state-of-the-art computing facility. Adequate number of PCs with the required configuration and equipment are present in the department. Windows licensed software and Microsoft application software are covered under Campus agreement. For online lecture delivery, Microsoft Teams is available.

The available Internet bandwidth of 250Mbps Std ILL provided by TATA Communications Ltd is adequate enough to meet the institutional requirements. Internet bandwidth available is 42 Mbps for college and 50 Mbps for hostels. LAN and Wi-Fi Facility is made available to the faculty and students for successful implementation of teaching learning process, research and project work. For security and privacy of users hardware firewall is installed. The college upgrades the computational facilities as per the requirements of the University curriculum. All the classrooms are ICT enabled equipped with LCD projector, LAN.

The Institute has access to online NPTEL video material. Recorded lectures of the all-expert subject teachers are also available on K-point. Faculty members make use of PowerPoint presentation for effective instruction delivery. The Institute maintains a database of objective questions for all courses. This helps to verify the knowledge grasped by students. Students can avail the facilities of photocopying, printing and CD writing in the college building.

The institute provides national knowledge connectivity directly provided by spoken tutorials and NPTEL.

All the Training placement activities are co-ordinated through ERP system .

Institute strongly promotes use of open-source software to fulfil need of advanced curriculum. Currently institute supports Ubuntu as system software for computers. Some of the open-source software tools used are Scilab, Keil, Python , Jupyter Note, Cloud sim, Anaconda , Hadoop, JAVA JDK, Eclipse C++.Institute is also designated as Nodal Centre for Virtual Labs IIT Bombay since November 2020.

File Description	Document
Upload any additional information	View Document

4.3.2 Student - Computer ratio (Data for the latest completed academic year)

Response: 5.27

File Description	Document
Upload any additional information	View Document
Student – computer ratio	View Document

4.3.3 Bandwidth of internet connection in the Institution

Response: B. 30 MBPS – 50 MBPS

File Description	Document
Upload any additional Information	View Document
Details of available bandwidth of internet connection in the Institution	View Document

4.4 Maintenance of Campus Infrastructure

4.4.1 Average percentage of expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the last five years(INR in Lakhs)

Response: 26.89

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

2020-21	2019-20	2018-19	2017-18	2016-17
151.71	208.01	254.3	256.06	250.48

File Description	Document
Upload any additional information	View Document
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	View Document
Audited statements of accounts	View Document

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

Response:

The physical, academic and support facilities like classrooms, laboratories, seminar halls, computer centre, transport, conference room etc. are well maintained and used based on the requirement as per the standard procedure.

To utilize the academic facilities like classrooms, laboratories and other physical facilities calendar of Events is prepared in the beginning of the semester. At the beginning of the semester the timetable in charge allots classrooms and laboratories for every class and division. The seminar Halls are booked prior to event to for proper utilization.

There are institute level committees that look after the various aspects of the utilization and maintenance of the physical, academic and support facilities.

- **Purchase Committee**
- **Computer Maintenance and other IT Infrastructure Committee**
- **Lab maintenance committee**
- **Library Advisory committee**
- **Housekeeping Committee**

- **Purchase Committee:**

Budget is sanctioned for new purchase and maintenance of laboratories at the start of each financial year. Purchase Committee takes decisions about new purchases.

- **Computer Maintenance and other IT Infrastructure Committee**

Routine computer maintenance, software installations, networking are handled by the Computer Maintenance Committee. The members of committee also take care of proper working of LCD projectors ,

Printers and other IT Infrastructure.

The equipment with major repairs is being carried out by outside agencies. After receiving quotations for maintenance and repair charges, necessary approval from college authorities taken. Thereafter equipment is sent for repair by issuing gate pass and the status of repair work is tracked.

- **Lab maintenance committee**

Laboratory in charge, along with laboratory assistants, ensures proper working of all equipment at the beginning of each semester. Repairs and Maintenance of laboratory equipment are initiated by the respective Laboratory In charge as and when required. As per the requirement, minor repairs are carried out by lab assistant/s. After receiving the request for maintenance from Lab In charge estimate is taken from repairing agency. After Pre sanctioning the estimated amount the maintenance work is carried out. Simple repairs are carried out by Technical Assistants in the department.

Library Advisory Committee

The Library Advisory Committee takes care of the smooth functioning of the library. Members of the Library advisory committee are Principal, Central Library In charge, Institute Library In charge and one faculty representative from each Department. At the start of each academic year the list of the books to be purchased is prepared by collecting requirements from subject teachers. Order is placed after checking the existing number of books. The librarian is in charge of handling all the maintenance works required in the library through maintenance staff. The utilization of books, digital library and other learning materials in the library is well managed by the librarian. Computers, printers, photocopy machines are well maintained by a team of technicians.

Sport Facilities

The repairs of Indoor sport equipment and outdoor courts are looked after by Physical director. The sport facilities are well maintained by the maintenance staff appointed by Estate office.

Housekeeping Committee

Housekeeping supervisor of the Institute

The Institute has a housekeeping supervisor for overlooking the maintenance of cleanliness and minor repairs (sanitation, carpentry) required on a day to day basis. The housekeeping is outsourced. Cleaning work is daily monitored by respective departments and offices. Following responsibilities are handled by cleaning staff.

- To keep the classrooms, laboratories, work areas, administrative area and outdoor area clean.
- Dusting benches, laboratory tables, library book stacks and office furniture.
- Sanitizing the toilet by cleaning and disinfecting regularly.
- Keeping the walls free of cobwebs and other prints.
- Wipe out the extra water on the floor.

Infrastructure Maintenance

The infrastructure, sports complex maintenance, civil work and electrical work is carried out by central team of Estate Office. Cleaning of water tanks, coolers is carried out periodically. Also maintenance of coolers, taps is carried out. As per the rules, fire extinguishers are refilled time to time. Maintenance staff consists of Qualified Electricians, Carpenters, Plumbers and other service personnel.

- Minor maintenance of furniture items and metal fixtures is carried out by the workshop.
- Following appointments are made to monitor the maintenance of campus:

1. Assistant Estate Manager (Civil Engineering and Utility Services)
2. Maintenance Engineer (Civil)/ Estate Supervisor (Civil)
3. Maintenance Engineer water supply /Estate Supervisor
4. Electrical Engineer

File Description	Document
Upload any additional information	View Document

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1 Average percentage of students benefited by scholarships and freships provided by the Government during last five years

Response: 63.53

5.1.1.1 Number of students benefited by scholarships and free ships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)

2020-21	2019-20	2018-19	2017-18	2016-17
3455	3132	2954	2737	2572

File Description

Document

upload self attested letter with the list of students sanctioned scholarship

[View Document](#)

Upload any additional information Average percentage of students benefited by scholarships and freships provided by the Government during the last five years (Data Template)

[View Document](#)

5.1.2 Average percentage of students benefitted by scholarships, freships etc. provided by the institution / non- government agencies during the last five years

Response: 0.36

5.1.2.1 Number of students benefited by scholarships and free ships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)

2020-21	2019-20	2018-19	2017-18	2016-17
2	14	18	25	26

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

5.1.3 Capacity building and skills enhancement initiatives taken by the institution include the following

1. Soft skills
2. Language and communication skills
3. Life skills (Yoga, physical fitness, health and hygiene)
4. ICT/computing skills

Response: A. All of the above

File Description	Document
Details of capability building and skills enhancement initiatives (Data Template)	View Document
Any additional information	View Document
Link to Institutional website	View Document

5.1.4 Average percentage of students benefitted by guidance for competitive examinations and career counselling offered by the Institution during the last five years

Response: 28.42

5.1.4.1 Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
618	1571	2040	1621	742

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

5.1.5 The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases

1. Implementation of guidelines of statutory/regulatory bodies
2. Organisation wide awareness and undertakings on policies with zero tolerance
3. Mechanisms for submission of online/offline students' grievances
4. Timely redressal of the grievances through appropriate committees

Response: A. All of the above

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

5.2 Student Progression

5.2.1 Average percentage of placement of outgoing students during the last five years

Response: 40.38

5.2.1.1 Number of outgoing students placed year - wise during the last five years.

2020-21	2019-20	2018-19	2017-18	2016-17
593	610	578	370	450

File Description	Document
Upload any additional information	View Document
Self attested list of students placed	View Document
Details of student placement during the last five years (Data Template)	View Document

5.2.2 Average percentage of students progressing to higher education during the last five years

Response: 8.8

5.2.2.1 Number of outgoing student progression to higher education during last five years

Response: 111

File Description	Document
Upload supporting data for student/alumni	View Document
Details of student progression to higher education (Data Template)	View Document

5.2.3 Average percentage of students qualifying in state/national/ international level examinations during the last five years (eg: IIT-JAM/CLAT/ NET/SLET/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations, etc.)

Response: 100

5.2.3.1 Number of students qualifying in state/ national/ international level examinations (eg: IIT/JAM/ NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations, etc.)) year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
26	73	75	67	142

5.2.3.2 Number of students appearing in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT,GRE/ TOFEL/ Civil Services/ State government examinations) year-wise during last five years

2020-21	2019-20	2018-19	2017-18	2016-17
26	73	75	67	142

File Description	Document
Upload supporting data for the same	View Document
Number of students qualifying in state/ national/ international level examinations during the last five years (Data Template)	View Document

5.3 Student Participation and Activities

5.3.1 Number of awards/medals won by students for outstanding performance in sports/cultural

activities at inter-university/state/national / international level (award for a team event should be counted as one) during the last five years.

Response: 63

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) year-wise during the last five years.

2020-21	2019-20	2018-19	2017-18	2016-17
02	36	05	11	09

File Description	Document
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/ national/international level during the last five year	View Document
e-copies of award letters and certificates	View Document

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

Response:

Institute provides freedom for the students to govern, manage and learn themselves while on the campus. Self-learning leads effective learning at their own pace and interest. In other words it is nothing but attitude building activities. There are several student committees and councils which are established to develop their skills in curricular, co-curricular and extracurricular activities.

1.Student Development Cell:

Goal of this cell multidimensional & multifaceted and it is student-centric, aligned with the vision of SPPU's Board of Students' Development.

2.Sinhgad Student Council:

.SSC (Sinhgad Student Council) is an association with a perfect blend of clubs to produce competent, students to face the newer challenges of today's globalized world through holistic development.

3. Association of Computer Engineers

ACE is a student chapter under largest membership body of The Institution of Engineers India. ACE is a

platform which encourages students to brainstorm for innovative ideas. Extracurricular events of computer department are handled by ACE. A core committee is formed at start of academic year headed by president who is selected by students and other post holders advised by staff coordinators and HoD, which conducts various events for department. It helps for building leadership skills, management skill as well.

4. III Cell:

It stands for Institute industry interaction cell of Mechanical Engineers, In which students organize various events and also visits companies and try to fetch internship opportunities for students for which interviews are arranged by the company with the help of this team. This team also help students in finding sponsored projects for BE students by contacting companies. There is core team of Mechanical department students, various events are handled by this team of students under the guidance of one faculty advisor, and like BE farewell, SE induction. This team also look after all the events of department held under Tectonic .

5. ISF

ISF is a forum helps the students to improve their technical skills encourage the students for outside class room studies by organizing workshops , seminar on new technologies . Advancements in engineering. It also facilitates technical visits, project works employment through industry academic institution interaction. ISF's so is catalyst for the overall growth in technical professional skills in building engineers.

6. ELESA

ELESA is an organization for the students by E&TC students. Various extracurricular activities such as, fresher's induction programs, Farewell for final year students, fun games for fresher's activities to improve communication & stage daring.

7. Student Grievance Redressal Cell:

This Cell addresss the grievance issues.

8. Equal Opportunity Cell:

It issues of students belonging to SC/ST, OBC, minorities, PWDs, Girl and assist these students in empowering so that they can fully participate in all activities conducted in the institute.

9. Anti Ragging Committee:

Anti-ragging committee and Anti-ragging squad is constituted and brought into operation even before the start of 1st year classes.

10. Zero Gravity Club:

Club conducts training to help the students become proficient in their skills.

11. Dhyas

Dhyas consists of students and faculty advisor, which organize social activities under mechanical

department like tree plantation, notebook distribution.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

5.3.3 Average number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions)

Response: 49.6

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

2020-21	2019-20	2018-19	2017-18	2016-17
10	68	57	71	42

File Description	Document
Upload any additional information	View Document
Number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions (Data Template)	View Document

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

Response:

It is our pride to share that our alumni have held various positions like presidents, vice presidents, CEOs, entrepreneurs, and heads in major MNCs, public sector, and government organizations on a global, national, regional and state level.

The institute established an Alumni Association in 2007, with the registration number F/22380/Pune. Alumni registrations are handled through a specific alma-shine site. To strengthen the alumni network by bringing all graduates together to share their experiences, offer support, and provide guidance to students.

Alumni are connected to each other and teachers in various parts of world through social media sites.

Every year, the institute hosts the alumni meet. The event attracts 400 to 500 alumni on an average. During the meeting, alumni share their memories as student, experience as alumni, bond with teachers, attachment and also express their ideas for improving the institute's overall success.

Alumni effectively contribute by visiting to the department to provide guidance through guest lectures, seminar and workshops. Now a days, they guide students using online portals also. Students interested in pursuing higher education abroad contact alumni and get guidance from alumni who have completed higher education or pursuing higher education. Teachers act as mediators between alumni and students. This extended support helps a lot to students who are pursuing higher education in foreign countries especially. Students communicate with Alumni via phone, email, and social media.

To promote research culture, alumni provide financial assistance to organize project competitions and conferences in the institute. Also alumni contribute in arranging industrial visits and placement drives.

Few alumni were very active in social activities during their graduation days, they continued the same work after their graduation, these alumni are motivating students by involving interested students in the activities they organize. This chain continues and students become aware of social responsibilities.

Also, alumni provide input on the college's infrastructure and other academic problems, as well as suggest gaps in the curriculum based on current industry demands. Frequently meeting with the alumni students helps the current students to get more and more knowledge of the outside world and better interaction and contact is built up between them. The alumni students are welcomed by the college and different types of inquiries and questions are made to understand the requirement of the companies based on which the campus placements can be improved by rigorous training and workshops.

In short, our alumni instill confidence in the students by relating their own journey, extending their support for extensive career and social responsibilities.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

5.4.2 Alumni contribution during the last five years (INR in lakhs)

Response: A. ? 5 Lakhs

File Description	Document
Upload any additional information	View Document
Link for any additional information	View Document

NAAC

Criterion 6 - 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

Response:

VISION

उत्तमपुरुषान् उत्तमाभियंतृन् निर्मातुं कटिबद्धाः वयम् ।

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

MISSION

OUR MISSION is to do WHAT it takes to foster, sustain and upgrade the quality of Education by way of harnessing Talent, Potential and optimizing meaningful Learning Facilities. OUR ENDEAVOR is to provide the Best Learning, conducive environment and equip the students with effective Learning Strategies.

The vision of India is to become a developed country by year 2025. To achieve this, capital manpower to cater to the needs of the service sector is needed. The technical man power so developed needs to be good citizens also. The vision and mission of the institution are in tune with needs of the society.

Nature of Governance

The education system at our college is governed in a democratic and participatory manner, even with stakeholders actively involved in its administration. The Governing Body is being delegated authority to the Registrar and Secretary and Principal, who in turn delegated it to the various levels of college officials. Heads of departments, conveners of various committees and cells, and staff representatives on higher decision-making bodies all play an essential role in developing and executing institutional policies.

Plan for achieving Mission and Vision

To spread technical education in rural and urban areas.

To organize institution so that it can contribute to the overall development of nation and society.	
To ensure effective teaching learning process, adequate infrastructure has been provided to the students as per the AICTE norms.	
To create citizens who are responsible with right attitude and value.	
To promote research activity.	
To educate economically backward students for their upliftment.	
To recruit qualified faculties	
To ensure that faculty development programmes are arranged on the topics beyond the curriculum to keep the faculties updated.	
To conduct TTT program for the newly joined faculties to introduce them to the institute quality policies.	
To monitor that the lectures-practical are conducted strictly as per time-table.	
To take care of repair & maintenance of laboratories by AMC or on call support facility.	
Periodic meetings for interaction with teaching and non teaching staff	
Motivation, guidance and appreciation to staff.	
To maintain quality in teaching learning process.	
To arrange department wise expert lectures of Eminent personalities from academics and industries for the students.	
For weak students take extra efforts, bring them to the comfortable level.	
Implement TG scheme	
Motivation guidance and appreciation to students.	

To ensure that feedback from parents is obtained on teaching – learning so that improvement is made.	
To carry out university result analysis and do the comparison between the current and previous results to find out shortcomings and the corrective actions to be taken.	
Arrange extra classes for the weak students as well as for the students who were admitted late i.e. students joining direct Second Year of engineering after completing Diploma.	
MOU with various industries for promoting industry institute interaction	

File Description	Document
Upload any additional information	View Document

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

Response:

- The management has two main committees Governing Body (GB) and Local Management Committee (LMC).

Role of GB is to decide vision and objectives of the institute based on which directions to LMC and HoD are given. The GB approves the budget recommended by LMC in an academic year one GB meeting is conducted.

- Every department has freedom to appoint activity coordinators and conduct various activities at department level etc.
- The departments are given budget to carry out the various events.
- The issues which require deliberations and consultations at college levels are taken up to the Local Management Committee.
- Table 6.1.2.1 shows members of GB along with their designation

Table 6.1.2.1: Governing Body Members

Name	Designation
PROF. MARUTI NIVRUTTI NAVALE Founder President, STE Society	CHAIRMAN

DR. MRS. SUNANDA M. NAVALE Founder Secretary, STE Society	MEMBER
MRS. RACHANA NAVALE ASHTEKAR Vice President, STE Society	MEMBER
MR. ROHIT M. NAVALE Vice President, STE Society	MEMBER
MRS. SHRUTI R. NAVALE Member , STE Society	MEMBER
SHRI. A. V. DESHPANDE Director, STE Society	MEMBER
NOMINEE OF AICTE AICTE, New Delhi	NOMINEE
DIRCTOR OF TECHNICAL EDUCATION Maharashtra State, Mumbai, Ex-Officio, DTE	NOMINEE
NOMINEE, Savitribai Phule Pune University	NOMINEE
NOMINEE, GOVT.OF. MAHARASHTRA	NOMINEE
REGIONAL OFFICER WRO, AICTE, MUMBAI (EX-OFFICIO)	NOMINEE
Dr. A. V. DESHPANDE Principal,SKNCOE, Pune-41	MEMBER SECRETARY
SHRI. G.K. SHAHANI	SPECIAL INVITEE

Table 6.1.2.2: Local Managing Committee

Name	Designation
Prof. Maruti Nivrutti Navale Founder President, STE Society	Chairman
Dr. Mrs. Sunanda M. Navale Founder Secretary, STE Society	Member
Mrs. Rachana Navale Ashtekar	Member

Vice President, STE Society	
Mr. Rohit M. Navale	Member
Vice President, STE Society	
Prof. R.H Borhade	Representative Teaching
HOD Comp. Engg	Staff
Prof. V. H. Bansode	Representative Teaching
Asst Prof. Mech. Engg	Staff
Dr.N. P. Kulkarni	Representative Teaching
Asso. Prof. IT	Staff
Mrs. K. S. Borgave	Representative Non-
Registrar	Teaching Staff
Dr.A. V. Deshpande	
Director, STE Society and Principal , SKNCOE	Member-Secretary
Shri G.K. Shahani	Special Invitee

The organizational structure of SKNCOE is a blend of professional autonomy, individual accountability and well-defined administrative structure. Principal in turn frames implementation guidelines with the help of team of HoDs and Local Management Committee (LMC) and revise them from time to time based on the needs of stake holders and directions received from management. The Institute has framed 20+ institute level committees including statutory committee's and 50+ department level committees. At Institution level, Academic Monitoring Committee has been constituted, governed by Principal and HODs. This Committee meets periodically to discuss various academic and non-academic issues. Teacher Guardian system is implemented at the college level for all students. Each faculty is assigned a batch of 20-25 students for mentoring. The substantial delegation of authority to the Heads of the several Departments in the college is a good example of this approach.

HoDs participate actively in Strategy Implementation of teaching plan checking, assigning roles and responsibilities to staff, design of seminars, symposia, career counseling sessions, corrective measures, cross departmental and inter-college exercises, departmental excursions, organizing study trips , Parent-Teacher meetings, university assigned work, internal examinations evaluation.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

6.2 Strategy Development and Deployment

6.2.1 The institutional Strategic / Perspective plan is effectively deployed

Response:

Since the 1st cycle of accreditation, strategic/perspective plan of institute consists of

- **All round development of students relevant to the needs of Industries and making them competent to face the challenges due to globalization.**
- Development of faculty and Staff by Deputation for Higher Studies and skill up- gradation.
- To strengthen Industry liaison by way of Faculty Training, Students Projects, Testing, MOUs etc.
- To promote R & D activities in the Departments.

For successful implementation of activity based on Strategic/ perspective plan, institute would like to highlight **“All round development of students relevant to the needs of Industries and making them competent to face the challenges due to globalization”**

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

- Annual event was organized by students which helped them to hone their leadership and management skills. This event also provided the platform to showcase their talent in various curricular, co-curricular and extracurricular activities.
- Various clubs like Stallion Motor sports, Robotics, Stallion Go Carting, Stallion Racing, Stallion Efficycle, Robotics are functional in the institute for technical development of students as well as for contributing effectively in teams.
- IETE Student’s Forum (ISF) aims at complete involvement of the students in the hands-on experience of applying the knowledge they acquire in their curriculum, in the most efficient way.
- IIT spoken tutorial is effectively implemented to improve the programming and logical skills of the students.

- Institute motivated students to participate in various events organized under NSS and Prayas to understand their social responsibilities and contribute towards the nation.
- Quiz, Coding, mini project exhibition, poster presentation and paper presentations etc. competitions were organized for the students to enhance and exhibit their technical skills.
- Institute motivated the students to develop their personality equipped with technical and nontechnical skills by conducting various events.
- 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.
- For exposure to students in interested domain, institute signed 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. 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.

File Description	Document
Upload any additional information	View Document
strategic Plan and deployment documents on the website	View Document
Paste link for additional information	View Document

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

Response:

Institute has well-defined decision-making procedures. Governing Body (GB) and LMC of institute are well-structured. The Principal informs all teaching and nonteaching staff members of the GB and LMC decisions. Office administration, academics, training & placement, extra-curricular activities, and auxiliary bodies are the four primary sectors with which the principal works. Alumni, anti-ragging, library, purchasing, and grievance are all handled by the auxiliary bodies. Students representatives and class representatives are in charge of extracurricular activities such as athletics, periodicals, and NSS. For placement activities, training and placement is a separate department. Finances and establishment areas of the office are overseen by the office superintendent.

Anti-Sexual Harassment Cell with its Internal Complaints Committee; Anti-Ragging Cell; a Grievance Redressal Cell with complaints boxes clearly located; and the complete application of the Right to Information are among the Grievance Redressal Mechanisms.

Administrative setup

Roles and responsibilities:

- Formulate directive principles and policies, as well as amend and approve policies as needed.
- Introduction of a new programme and/or an increase in intake/course closure/ intake decrease
- Creating and improving college's infrastructure and amenities, among other things.
- Approve initiatives/programs for faculty development.
- To keep track of faculty deployment, development, placement, and industry-institute collaboration.
- Interaction activities in institute/college, and recommend corrective actions when possible required.
- Perform any additional tasks and execute any other authorities given to you by the Governing management.

Service Policies and Procedures

I. When a person is assigned to a role in line with the current AICTE regulations, he is considered to have been appointed to the service.

II. Every appointment is subject to the requirement that he or she be in good mental health and physically fit for service as determined by a Medical Authority as needed.

III. The salary of Teaching Staff must be determined by the Selection Committee in accordance with the following guidelines:

Institute follows salary scale as per AICTE norms - sixth pay for last five years.

Assistant Professor 15600-39100 AGP 6000, 7000 & 8000

Associate Professor 37400- 67000 AGP 9000

Professor 37400-67000 AGP 10000.

Seventh Pay scale is implemented in the institute since 1st April , 2022

- Unless he or she has been demoted to a lesser rank as a result of disciplinary action, an employee's seniority in any grade is established by the date of his or her initial probationary appointment.
- The appointing authority must appoint two or more people at the same time Fix their Seniority in relation to the rank assigned to them at the same time as a Grade.
- Regardless of the date of joining, the Selection Committee at the time of appointment. All academic service appointments must be appointed through an open competition.
- All in-service people who possess the required qualifications are advertised and selected.

- It is also permissible to apply provided you meet the required qualifications. The management, on the other hand, May in rare instances, create ad hoc appointments or hire through delegation.

File Description	Document
Paste link for additional information	View Document
Link to Organogram of the Institution webpage	View Document

6.2.3 Implementation of e-governance in areas of operation

1. Administration
2. Finance and Accounts
3. Student Admission and Support
4. Examination

Response: A. All of the above

File Description	Document
Screen shots of user interfaces	View Document
Details of implementation of e-governance in areas of operation, Administration etc	View Document

6.3 Faculty Empowerment Strategies

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

Response:

All the staff that is eligible as per the Staffs' Provident Fund legislation shall be enrolled as members. The College contributes Rs. 1800 per person per month, towards the Employer's contribution to the EPF Scheme and Rs. 1800 is paid from the salary of the individual staff every month, towards his/her contribution to the Employer's contribution to the EPF Scheme. The College remits both the contributions stated above to the EPF Scheme authorities. Institute provides gratuity scheme. Group Medical Insurance is provided for teaching and non-teaching staff. All the benefits at superannuation are extended to all staff members. The faculty members are eligible for availing Casual Leave of 15 days per year. Summer and Winter Vacations of 70 days are sanctioned for teaching and Non-teaching faculty as per university directives. Medical Leave is for 10 days per year for approved faculty and for ad-hoc faculty members 7 days of special leaves are sanctioned. Six months maternity leave is available to the women employees. The institute allows faculties to go for higher studies and short term courses. On duty facility and training and travel grants for attending workshops /conferences/seminars. For teaching staff, financial support is provided for attending conferences, workshops and seminars. For non-teaching staff, financial support is provided to pursue skill development. Also fees reimbursement policy is in place for Swayam, NPTEL and

NITTT courses. Institute provides residential facility for the staff members. For other official purpose, institute provides vehicle facility to the staff concerned. Tuition fees collected in Equal Monthly Installments (EMI) for wards of the staff. Institute provides uniforms to. Uniform is being provided for drivers, security personals with all required accessories. Medical facility on campus, ambulance in case of emergency is also being provided for all staff.

Teaching staff can take use of the following benefits:

- The option to join a group insurance plan for teaching staff.
- Quick approval of Provident Fund loans.

Non-teaching staff can take use of the following benefits:

- Group insurance membership
- The college made a financial donation to the Non-Teaching voluntarily
- Quick approval of Provident Fund loans.
- Assist with bank loan facilitation.

Some additional facilities

1. Teaching, learning, and evaluation activities, co-curricular, extension, and professional development activities, research and academic contributions, administrative tasks, and research guidance are all documented in the institute's online appraisal system.
2. Various leaves available to teaching and non-teaching staff are vacation leave, casual leave, Earned Leaves, medical leave and maternity leave for ladies' staff.
3. Fees instalments scheme for wards of staff studying in STES schools.
4. Ambulance and doctor is available in campus
5. Accommodation in campus for few faculties and non-teaching staff

File Description	Document
Upload any additional information	View Document

6.3.2 Average percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years

Response: 14.34

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

2020-21	2019-20	2018-19	2017-18	2016-17
37	8	30	24	51

File Description	Document
Upload any additional information	View Document
Details of teachers provided with financial support to attend conference, workshops etc during the last five years	View Document

6.3.3 Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years

Response: 6.6

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

2020-21	2019-20	2018-19	2017-18	2016-17
8	10	2	9	4

File Description	Document
Upload any additional information	View Document
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff	View Document

6.3.4 Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the last five years (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course).

Response: 41.44

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

2020-21	2019-20	2018-19	2017-18	2016-17
110	96	45	85	95

File Description	Document
Upload any additional information	View Document
Details of teachers attending professional development programmes during the last five years	View Document

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

Response:

For both teaching and non-teaching employees, the institution has an effective Performance Appraisal System. Every semester, students evaluate teacher by submitting feedback. Campus evaluations are conducted. There are various factors on the teacher evaluation forms to parts of education about which students' opinions are sought. An appraisal form is filled by the end of every academic year by the teaching and non-teaching staff. The Performance Indicator (PI) is calculated out of 200 marks. The appraisal form consists of three sections as follows,

1. Students Centric Activity (SCA).
2. Professional development and academic contribution (PDAC).
3. Research Contribution (RC).

SCA section carries 115 marks which are based on teaching load allotted and conducted during classes and practicals, conduction of remedial classes, organizing guest or expert lecture, coordinating co-curricular and extra-curricular activities, contribution wrt university and internal exam duties, design and development of VAP, use of Innovative teaching – learning methodologies, coordination of student centric activities, student feedback.

In PDAC section attending and organizing FDP, STTP, FoP, Conference etc are considered. In RC the number of papers published by the teaching staff and research funding grants etc are considered for evaluation. Weightage of PDAC is 45 Marks.

RC section mainly focus on research publications, books publications, funded projects, consultancy, patent publications and research guidance. 25 marks are allocated for RC contributions.

Remaining 15 marks are reserved for assessment by HoD and Principal.

The Principal examines the completed forms and provides feedback as a result appropriately addressed in order to improve the teaching-learning process when laxity or flaws are noticed.

Similarly appraisal of HoD and Principal is taken considering different attributes. If the appraisal is below 50% then an email is sent to the staff for further improvement and if the appraisal is above 60% an email of appreciation is sent to respective staff. In the interest of the students, the Principal pushed him/her to enhance his/her performance for professional advancement and improved service delivery to our key stakeholders, specifically, the students. In the Campus Evaluation Survey, Final Year students evaluate the performance of non-teaching personnel. Efficiency, cordialness, and overall helpfulness are all factors in their evaluation. The Principal examines these surveys as well, and counsels non-teaching staff members whose work has been criticized or needs to be improved. The performance of teaching and non-teaching staff members who have received poor feedback from students is rigorously scrutinized. It is common to detect an improvement in the subsequent performance of the aforementioned employees. When this does not occur, systematic reminders are sent to the concerned staff member in an attempt to fix imbalances and restore optimal efficiency to the institution.

File Description	Document
Upload any additional information	View Document

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

Response:

Institute has transparent and efficient mechanism for conducting financial audits and settling the same. Internal and statutory audits of the institutional accounts are conducted on a regular basis.

At the beginning of every financial year, budget requirements is submitted by all departments. During this process, HODs prepare budget for the department based on requirements provided by all laboratory in-charges. Laboratory in-charges prepare the requirement based on revised syllabus. Budget is proposed by Principal in Governing Body and College Development Committee, and is approved by them.

For above procedure, the institution is having qualified practicing Chartered Accountant as external auditor and team of internal auditors. Internal audit is conducted by qualified team of internal auditors. Internal audit at institute is a continuous process. Internal audit is conducted every year. During internal audit the issues regarding fee receipts, cash transactions verification, salary, yearly increments, major purchases, approval of purchases, inter branch transactions, payments to suppliers, log book of vehicles, budgets, non receipt of grants, scholarships receivable from social welfare department, compliance of previous audits are addressed. After every internal audit, compliance is carried out and is submitted to head office through campus accounts officer.

On half yearly basis, an external audit is also carried out in a detailed manner. External auditors verifies and certifies the Institute's whole income and expenditure, as well as its capital expenditure. After the audit, the report is sent to the management for review.

Minimal exclusions and commissions are quickly addressed / rectified by the audit team and preventative measures are implemented to avoid recurrence of similar errors in the future.

File Description	Document
Upload any additional information	View Document

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

Response: 0

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

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	0	0	0

File Description	Document
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the last five years	View Document
Any additional information	View Document

6.4.3 Institutional strategies for mobilisation of funds and the optimal utilisation of resources

Response:

A robust resource mobilization policy is in place at the institution.

The institution strives to mobilize government and nongovernment funding for the strengthening of institutional infrastructure and knowledge resources, and to that purpose develops, vets, and submits applications to appropriate authorities such as the UGC, the State Government, and the SPPU, among others. It accepts gifts, memorial prizes, and endowments from staff members, alumni, and guardians for the prize and endowment funds from local institutions such as banks, business houses, and municipal groups. It collaborates with other schools on jointly sponsored academic exchanges it actively seeks grants for the institution's benefit, some of which have been successful. All government and non-government financial grants are fully utilized while keeping the stakeholders' best interests in mind. Space, which is limited in the college, is mobilized and exploited completely and imaginatively. A strip of ground behind one of the buildings has been turned into a garden, and an abandoned storage room has been cleverly repurposed into a student canteen. The Computer Laboratory, which houses numerous linked courses, the seminar halls, which double as lecture halls, and the library, which serves as a composite information resource center, are just a few instances of efficient space usage. The university also mobilizes its human resources by conceptualizing, developing, and executing academic and co-curricular programmes that push

students to their limits and allow them to reach their full potential. It encourages all employees to work together to achieve their personal and professional objectives by collaborating with their career development imperatives and discipline-specific goals. Most crucially, the institution's overarching plan of advancement prioritizes and cultivates the abstract resources of intellectual and moral probity, as well as a social conscience and cultural inclinations. Staff meetings, Finance Sub-Committee meetings, and the Governing Body of the college discuss and approve resource mobilization kinds and techniques. It's also brought up during Alumnae Association meetings. Resource mobilization and optimal usage are carried out by the immediate monitoring agency, such as the Students' Union overseeing a talent search competition among students and the Finance Sub-Committee overseeing the stewardship of financial resources.

File Description	Document
Paste link for additional information	View Document

6.5 Internal Quality Assurance System

6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes

Response:

IQAC is effectively performing various functions bestowed upon it since its inception. IQAC takes feedback from all stakeholders regarding quality enhancement and chalks out a plan of action on the basis of inputs received time to time. The outcomes are observed periodically and corrective measures are taken if needed. This is a continuous process. IQAC has contributed significantly in the following :

Implementation of OBE in all programmes :

- IQAC takes effort to inculcate OBE philosophy among the teachers and students. IQAC started implementation of OBE in Academic Year 2019-20. Prior to that IQAC conducted sessions on Bloom's Taxonomy, formation of Course Outcomes (CO), Program Specific Outcomes (PSO), CO- PO attainment and Tools used for attainment. COs are finalized and CO-PO mapping is done by concerned subject teachers and subject coordinator. After CO-PO mapping, the gaps are identified and activities are planned accordingly. All the relevant formats and data is prepared by IQAC and shared the same to all faculty members for documentation. Teachers discuss COs with students at the commencement and before starting the new unit of curriculum.

NPTEL Certification

- Teachers are encouraged to upgrade themselves through NPTEL certification. They are encouraged by reimbursement of full registration fees when the faculty gets certification.

Industry Institute Interaction Cell

- IQAC has initiated Industry Institute Interaction Cell for strengthening bond between industry and institute. Faculty are coordinating with various industries for collaboration. As a result, many students are going in industry for internship.

Research, Development and Consultancy Cell (RDCC)

- To inculcate research culture among students and faculty, IQAC started RDCC. RDCC encourages teachers to organize conferences, publish work in reputed journals, publish patents, organize project competitions, organize seminars for IPR awareness, organize FDP, submitting the proposals to funding agencies for research grants and other grants. Students are motivated to participate in conferences and publish their work. As a result, every year two international conferences are organized at the institute and many students started publishing their work. Also number of filed patents increased.

GATE Coaching :

- As a part of continuous learning, everyday 10 questions along with answers are shared to all GATE aspiring students. If students face any difficulty in solving them, students approach respective faculty and get s cleared. This helps them for regular studies and provided guidance whenever needed.

Continuous feedback and corrective measures for improvement, Academic Audit, Feedback from alumni, industry, parents, students, experts and the community helps it to establish quality culture.

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 (For first cycle - Incremental improvements made for the preceding five years with regard to quality For second and subsequent cycles - Incremental improvements made for the preceding five years with regard to quality and post accreditation quality initiatives)

Response:

Teaching-learning process, structures, methodologies of operations and learning outcomes are periodically reviewed by the IQAC and corrective measures are taken. Incremental improvements are made during last five years after first cycle of accreditation are as follows.

Teaching learning process

Institute has a well defined teaching learning process and is reflected in terms of excellent academic results and number of university rankers. In academic year 2019-20, institute incorporated Outcome Based Education in Teaching Learning process. Before implementing the same, in academic year, 2018-19 an expert seminar was conducted for teachers. Also IQAC guided teachers about use of Bloom's Taxonomy, formation of Course Outcomes (CO), Program Specific Outcomes (PSO), CO- PO attainment and Tools

used for attainment. With this input, teachers with HOD, had lot many discussions and doubt solving learnt the OBE philosophy. For every course, COs are finalized with the help of scope of curriculum and Bloom's Taxonomy levels. CO finalization and CO-PO mapping is done by concerned subject teachers and subject coordinator. After CO-PO mapping, the gaps are identified and activities are planned accordingly. Target CO-PO attainment is finalized by subject coordinator in consultation with Academic monitoring Committee and HOD, When university results of respective semester are declared, CO-PO attainment is finalized and checked whether target attainment is achieved or not. If CO target attainment is not achieved, the causes are identified and corrective actions are proposed. Similarly PO attainment is also calculated and if not attained, corrective measures are taken for attainment. All the relevant formats and data is prepared by IQAC and shared the same to all faculty members for documentation. Teachers discuss COs with students at the commencement of course and before starting the new unit of curriculum.

While forming Course Outcomes and Internal examination question papers, various learning levels of Bloom's Taxonomy are referred by teachers. This helps students to get clear idea about depth of topic and expected answers in examination. Lower learning levels like remembering, understanding and applying are used for first year question papers. Second year onwards, higher levels of Bloom's Taxonomy are used.

Internships and industry sponsored projects

To bridge the gap between academics and industry demands, all students are motivated to undertake internship in summer and winter vacations and work on industry sponsored projects. Many teachers and students contact industries for student internship and sponsored projects. This initiative helps students to work on real time projects in industry.

Entrepreneurship Development Cell and Incubation Center :

Institute has initiated Entrepreneurship Development Cell and Incubation Center to foster entrepreneurial thinking, promote business related knowledge and instill confidence in every student and faculty. This help the students and faculty to create their own mind maps to identify feasible business idea based on the product or service category and promote innovation, start and grow their businesses. Institute has organized various guest lectures, Seminars, E- conclave, to spread the knowledge about entrepreneurship. Institute has arranged National Commission for Women (NCW) sponsored Seminar on Women Entrepreneurship where girl students, faculty from various colleges, housewives, small business owners, women working in industry participated and interacted with various Govt. Officials, Banking sector Officials, Budding Women Entrepreneurs. This has sown entrepreneur seeds in attendees.

Online Learning :

Students are encouraged to watch video lectures available online using open course ware modules to uplift the skills, gain knowledge and promote self study. Many students have upgraded themselves by using platforms like NPTEL, Moodle, Coursera, Udemy, Udacity, Edx. This has proved very beneficial during pandemic.

STP

Student Training Program (STP) is unique initiative by institute to make the students industry ready. It is divided in five modules which address training on soft skills, communication skills, technical skills, Value Added Programs and interview preparation. Duration of STP is 120 hours and objectives of this initiative are

- To Enhance the employability opportunity
- To Prepare students for entrepreneurship
- To prepare students for higher education in India as well as abroad

Institute is keenly working for this initiative. As a result, all students are benefitted during placements, higher education or for their start ups. In short, this has helped students for overall personality development.

Research culture :

Institute has taken efforts to inculcate research culture among the teachers and students. FDPs, seminars related to how to write research paper, patent filing are organized in the institute. Every year two internal conferences are organized in the institute. Also one module in STP is regarding research. It covers importance and objectives of research, process of research, literature review, technical writing in terms of report, conference / Journal Paper, Preparing the presentations. As a result, students started publishing their work and grab the prizes for paper presentation.

6.5.3 Quality assurance initiatives of the institution include:

- 1.Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements**
- 2.Collaborative quality initiatives with other institution(s)**
- 3.Participation in NIRF**
- 4.any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)**

Response: E. None of the above

File Description	Document
Upload details of Quality assurance initiatives of the institution	View Document

Criterion 7 - 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 last five years.

Response:

Sinhgad Technical Education Society's Vadgaon campus is 30 percent residential. The campus security system is quite comprehensive, with numerous checkpoints for all visitors, including students and employees. On campus, security personnel and barricades and stoppage barriers along with rumblers, speed breakers for fast drivers are on duty 24 hours a day, seven days a week. All students as well as staff members' I-cards are verified at the main entrance.

From recruiting of women in both teaching and non-teaching positions to promotion processes, the college promotes women's empowerment. Women are given the same opportunities as males to advance. Females are encouraged to take positions such as president, vice-president, and secretary in a variety of technical and non-technical organizations. On Fresher's Day & Farewell Day, the female & male topper both are given the chance to speak to the freshers.

Security and Safety: On campus and in the dorms, the college has constructed a grievance and resolution of disputes unit for women's protection, inequality, and any sexual misconduct issues. Students are constantly educated & trained through various self-defense, healthcare, and cleanliness awareness programmes.

- Anti-Ragging emergency numbers are published at all vulnerable places.
- On-campus girls' in-house dormitory with single entrance, 24x7 security, Surveillance CCTV cameras, and an in-house warden.
- Ambulance service available 24 hours a day, 7 days a week.
- Separate high-quality games, sports, and gym equipment is given for both girls and boys fitness.
- Every student has a faculty counselor, and they meet on a regular basis. In addition to scheduled hours, students can meet with their mentors during faculty office hours. Every two weeks, students meet with their mentor to address academic, non-academic, and personal concerns for which mentors can give a realistic solution. Issues beyond the mentor's control are brought to the attention of the Women Grievance and Redressal Cell.
- Every semester, parents and teachers meet to discuss the progress of their children.
- Healthcare & medical facilities including full-time as well as part-time physicians, 02 beds, 01 examination rooms.
- A pharmacist Store ; 24-hour emergency service on campuses

- Anti-ragging cells with squads ready to maintain a ragging-free campus as well as hostel
- Newspapers, professional and non-technical publications, and a discussion section are available in the reading area.

On campus, there are separate hostels for males and girls. After 7 p.m., female students are not permitted to leave campus. Women's and men's equality is also important. Students and faculty members at the institute have the same access and opportunities. There is no preference or discrimination. Fairness dictates that everyone receives the same advantage. The equilibrium is maintained.

In addition, the Equity in the Classroom programme is being implemented. Its goal is to make it easier for girls and boys to participate equally in the classroom. The proportion of girls admitted has increased over time. Every year, International Women's Day is observed to raise women's spirits. Separate washrooms, counseling rooms, and a sick room are offered for boys and girls.

File Description	Document
Link for specific facilities provided for women in terms of: a. Safety and security b. Counselling c. Common Rooms d. Day care center for young children e. Any other relevant information	View Document

7.1.2 The Institution has facilities for alternate sources of energy and energy conservation measures

1. Solar energy
2. Biogas plant
3. Wheeling to the Grid
4. Sensor-based energy conservation
5. Use of LED bulbs/ power efficient equipment

Response: C. 2 of the above

File Description	Document
Any other relevant information	View Document

7.1.3 Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 500 words)

- Solid waste management
- Liquid waste management
- Biomedical waste management
- E-waste management
- Waste recycling system
- Hazardous chemicals and radioactive waste management

Response:

The campus is both the academic and a part of residential. There are dust Bins and containers throughout every corner of the cafeterias, Canteens/ mess, dorms, library, and academic floors, among other places. Garbage and rubbish are collected daily in a vehicle and disposed of without harming the environment. The canteens' sweaty and recyclable trash is collected and deposited separately at a garbage collection centre in Vadgaon nearby to Bus Station.

Paper trash, cardboards, carton boxes, used files, and other materials are sold to an outside recycling organisation at regular intervals. Students and the college have participated actively in India's largest cleanliness drive, the Swachha Bharat Abhiyan, by trying to clean the campus as well as city in collaboration with the National Service Scheme and also the Municipal Corporation of Pune, spreading the message of keeping our environment clean as well as plastic-free.

Appropriate care and small repairs performed by experts may extend the life of computers, projectors, and electrical equipment. The e-waste is disposed of on a regular basis by a competent e-scrap dealer.

The SKNCOE College NSS group organizes numerous awareness events, tree plantings, and other activities. Other than these initiatives, students are taught the necessity of trash management and garbage disposal mechanisms through courses such as Environmental Studies and Management, Solid & Liquid Waste Management, and so on many more.

Solid Waste Management

- To maintain a healthy and welcoming atmosphere on campus, we strictly enforce trash segregation by placing Dry and Wet waste containers strategically across the campus.
- Dry trash is recycled, while wet waste from garbage bins and remains from the canteen is decomposed in our own dump site.

Waste Recycling & Reuse System

- The paper trash created is either recycled or utilized by our college's creative staff during college fests. The NSS volunteers gathered all of the unused ruled pages on campus to create notebooks, which were then handed to impoverished students and employees.
- Reusable corrugated boxes were used to create unique dustbins that have been placed in each corners to collect trash.

E-Waste Management

- Electronic products are utilized to their full potential; small repairs are performed by Laboratory assistants, while large repairs are managed by the Technical Assistant and reused. Disassembled and separated equipment that cannot be repaired is sent to recycling units.
- E-waste is accumulated just on college campus and thereafter delivered to the society's e-waste management department for proper disposal.

- Various elements of E-Waste, such as disposal, negative impacts, recycling, restrictions, and so on, were discussed with students and faculty members on a regular basis.

File Description	Document
Link for Relevant documents like agreements/MoUs with Government and other approved agencies	View Document
Link for Geotagged photographs of the facilities	View Document

7.1.4 Water conservation facilities available in the Institution:

1. Rain water harvesting
2. Borewell /Open well recharge
3. Construction of tanks and bunds
4. Waste water recycling
5. Maintenance of water bodies and distribution system in the campus

Response: C. 2 of the above

File Description	Document
Link for any other relevant information	View Document

7.1.5 Green campus initiatives include:

1. Restricted entry of automobiles
2. Use of Bicycles/ Battery powered vehicles
3. Pedestrian Friendly pathways
4. Ban on use of Plastic
5. Landscaping with trees and plants

Response: A. Any 4 or All of the above

File Description	Document
Link for any other relevant information	View Document

7.1.6 Quality audits on environment and energy are regularly undertaken by the Institution and any awards received for such green campus initiatives:

1. Green audit
2. Energy audit
3. Environment audit
4. Clean and green campus recognitions / awards

5. Beyond the campus environmental promotion activities

Response: A. Any 4 or all of the above

File Description	Document
Link for any other relevant information	View Document

7.1.7 The Institution has disabled-friendly, barrier free environment

1. Built environment with ramps/lifts for easy access to classrooms.
2. Divyangjan friendly washrooms
3. Signage including tactile path, lights, display boards and signposts
4. Assistive technology and facilities for 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

Response: A. Any 4 or all of the above

File Description	Document
Link for any other relevant information	View Document

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 500 words).

Response:

Sinhgad Technical Education Society's (STES) Smt. Kashibai Navale College of Engineering, Vadgaon (Bk.), Pune was established in 2001 and has become synonymous with high quality engineering education. Over 4700 students along with about 200 faculty members come from various cultural backgrounds who carry forward their rich cultural diversities.

The college organises many events to inculcate ethical, cultural, and spiritual values among students and staff in order to create a country of noble young who are morally responsible.

Cultural : To foster emotional and social development, religious attitudes among students and professors are expressed through remembrance days celebrated in the campus, It creates not only a sense of enjoyment, but also to foster a sense of unity and social harmony. Institute arranges career guidance programs. New Year's Day, Fresher Fiesta, Teacher's Day, orientation and goodbye programme, Induction programme, rally, oath, plantation, Youth day, Women's day, Yoga day, and holidays like Diwali are all celebrated by college.

Regional : The students composition at our institute is combination or mix of students from different

corners of country – as to Maharashtra, Gujrat, Rajasthan, Madhya Pradesh, Uttar Pradesh, West Bengal, Goa, Himachal Pradesh, Jammu and Kashmir, Orissa, and even South India. Within the state, students from regions like Western Maharashtra, Marathwada, Konkan, Vidharbha are admitted.

Linguistic: Students diversity as stated above also carries the linguistic mixture of students speaking various different languages as to Marathi, Hindi, Bengali, Punjabi, Rajasthani – Marwadi, Gujrathi along with English, etc. Various festivals such as Dusshera, Holik Dahan, Pongal, Onam of different regional and linguistic people are been celebrated on campus.

Communal Socioeconomic And Other Diversities: Mixture of all activities which would benefit the students, faculty members and society or public at large are being celebrated. International Yoga Day is celebrated by NSS unit of our institute. The tree plantation activity was conducted on 1st July by the state government in collaboration with SKNCOE. Under the Swachh Bharat Abhiyaan, the entire campus of Smt. Kashibai Navale College of Engineering was cleaned by the NSS volunteers from our college.

Traffic Management Day by the N.S.S. unit of SKNCOE. We created Human Chain on the road to support activity. Human Chain was the enthusiastic initiative to draw attention of community, people who were not wearing helmets and those who were not following traffic rules. Cashless awareness drive was arranged by NSS unit of Our College. Our NSS team approached shops and hotels and taught them how to use different services related to cashless transactions like paid services provided by companies like PayTM, Freecharge and MobiKwik.

The activity of tree plantation is also performed in nearby areas and Importance of trees to our mother earth is guided our volunteers.

Blood Donation camp and Free dental check-up is organized by our institute to spread awareness amongst villagers about hygiene and tooth care.

Institute celebrates Teachers Day, Suryanamshkar day, NSS Day. Special Camp were organized by our NSS unit and different activities were perform like shramdan, Visit to old age home, Cleanliness Drive Etc.

File Description	Document
Link for supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View Document

7.1.9 Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens (within 500 words).

Response:

India as a country contains people from many backgrounds, including cultural, social, economic, linguistic, and ethnic diversity, all of which are controlled and supervised by the Constitution, regardless of caste, religion, race, or gender.

Institute educates students and workers about the institution's constitutional requirements about citizens' values, rights, duties, and responsibilities, enabling them to act responsibly. Institute believes in providing students with a well-rounded education. One of the major educational goals of the institute is to educate students about their constitutional rights, beliefs, obligations, and responsibilities. Curriculum and extra-curricular activities are used to educate students and workers about the institution's constitutional duties.

Cyber Crimes : Many of the classes provided certain issues that educate students about their constitutional responsibilities, such as a cyber security elective at the Institute level. Students in this course learn about cybercrime, cyberspace, the Indian IT Act, and other topics. In addition, the institute's ICC cell hosts a number of monthly events to educate women about their rights.

Environment Protection : In addition, all first-year students complete an environmental studies course that introduces them to environmental laws, and worldwide environmental problems. On days of national significance, seminars and workshops on different citizen rights, duties, and obligations are also held. The institution's NSS section organises a cleaning campaign on campus and in the surrounding rural region to commemorate the Swachh Bharat Abhiyan.

Awareness about Rights: Seminars on issues such as the right to information and sexual harassment are held on a regular basis. Various parts and categories of the legislation are covered in the Right to Information session.

Responsibilities: To be good citizen and Human Being is the Vision of our institute, we organize various event and activities such as Blood donation, Beti Bachao, Beti Padhao, Slum Development and up-gradation process, Humanitarian Projects so that the students understand and responsibility towards the society and nation.

Values : The Institute takes various measure to inculcate values among students by conducting and organizing various activities like working in teams, sense of belongingness, sharing of resources, helping poor's, visit to old age homes, orphanages, donation during floods, blankets and clothes, animals care , Stop on wastage of food.

Guest lectures and workshops of distinguished personalities are organised to provide lessons on ethics, values, obligations, and responsibilities, as well as environmental preservation. Citizens' rights, obligations, and responsibilities are only a few of the themes covered in Elocution, debates, and class presentations.

As a minor start toward instilling constitutional duties among students, the affiliating University curriculum includes required courses such as Professional ethics and human values, the Constitution of India, and the Essence of Indian Traditional Knowledge.

Various events linked to sensitization also feature a variety of skits and dance acts. Issues like Corruption, young people's responsibilities, child labour, society's detrimental impact on our passions and dreams, social media misuse, favoritism, mental health, and other subjects were discussed.

File Description	Document
Link for details of activities that inculcate values necessary to render students in to responsible citizens	View Document

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.

1. The Code of Conduct is displayed on the website
2. There is a committee to monitor adherence to the Code of Conduct
3. Institution organizes professional ethics programmes for students, teachers, administrators and other staff
4. Annual awareness programmes on Code of Conduct are organized

Response: A. All of the above

File Description	Document
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	View Document
Code of ethics policy document	View Document

7.1.11 Institution celebrates / organizes national and international commemorative days, events and festivals (within 500 words).

Response:

All students and faculty members of institute's celebrates various national and international commemorative days, events and festivals, including as Gandhi Jayanti, Republic Day, and Independence Day, are regularly organized and celebrated with tremendous passion and excitement. Sweets are been

distributed to students and faculty members.

Various ceremonial activities, including as flag hoisting and a march-past by students, employees, and security department, are held on Republic Day and Independence Day. Students and staff members plan and arrange cultural events.

All students and staff members on campus celebrated Ganesh Festival, Guru Purnima, Shivaji Jayanti, Maharashtra Foundation Day, Teacher's Day, Holi, Diwali, and Navratri with excitement and enthusiasm. Institute commemorated birth anniversary of Savitribai Phule on January 3rd, Dr. Babasaheb Ambedkar on March 14th, and Dr. S. Radhakrishnan on September 5th.

Every year on June 21st, college commemorates International Yoga Day. The goal of the day is to increase awareness of the numerous advantages of practicing yoga. It is commemorated to raise public awareness about the value of yoga and its impact on people's health.

Every year on September 5th, Teachers Day is observed to commemorate the birth anniversary of Dr. Sarvepalli Radhakrishnan. This day is commemorated to promote the ideals and qualities of a true educator. Students honour teachers and express their gratitude towards teachers.

Dr. A. P. J. Abdul Kalam's death anniversary was commemorated on July 27th as a "Wachan Prerna Diwas," honouring his contributions to the nation, particularly satellite launching vehicles and missiles.

To instill a feeling of patriotism in the youngsters, all national festivals are celebrated with zeal. Every year, students gather to present cultural events such as dance and comedy that highlight societal issues. On these days, the students also create films and speeches to convey their opinions. Many cultural activities are organized by the NSS unit and the students' council to address current social concerns. During this occasion, the student staff and alumni unite and rejoice with tremendous patriotic enthusiasm. Every year, ex-military or police officers are asked to share their experiences in order to encourage and motivate young people to contribute to the nation's development.

Women's Day is observed on March 8th, International Women's Day, to honour women for their achievements and all of the efforts they make to manage their personal and professional lives. Other activities and guest lectures are held on a regular basis to instill a feeling of national pride and respect for the sacrifices of our country's great leaders.

Every year on February 27, Marathi Language Day is observed. Our culture's root map is language, and the institution works to preserve it. Every year, Marathi bhasha divas is held to celebrate the state's language.

Every year, college celebrates Holi and Diwali to instill in the students a sense of patriotism, ethics and moral values, obligations and responsibilities, humanity, respect for instructors, cleanliness and health awareness, physical and mental fitness, and so on.

File Description	Document
Link for Geotagged photographs of some of the events	View Document
Link for Annual report of the celebrations and commemorative events for the last five years	View Document

7.2 Best Practices

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

Response:

Best Practices :

1. Title of the Practice:

Student Training Program (STP)

2. Objectives of the Practice:

1. To increase the performance of students by equipping them with internationally competitive abilities.
2. To improve students employability and entrepreneurial abilities as well as to prepare them for the workforce.
3. To develop a personality with exceptional technical and soft abilities.
4. To improve the youth's soft skills and life skills via skill development and strengthening.
5. The goal of this approach is to provide students with acceptable jobs after they have invested a significant amount of time and money in getting a higher education degree.

3. The Context:

It was a bit tough to grasp the needs of industry and market, so institute decided to develop a module to address what is now lacking in education. Many employers and alumni were consulted. During the development of the modules, the focus was on creating a curriculum that would assist students in surviving in the period of global competition, which necessitates a highly trained workforce in terms of soft skills. As a result, we incorporated soft skills as extra input to students as STP I, STP II, STP III, STP IV, STP V during the graduation.

4. The Practice:

STP entails providing specialized training on a wide range of qualities that a student is expected to possess. Each semester, STP calendars have been deliberately developed and are reviewed and changed on a regular basis.

In the STP cycles, various components are added such as professional skills, leadership skills, effective communication Skills, team building activities, career counselling, aptitude test, Research aspects for UG students and critical analysis of industry, Harvard business school quiz, entrepreneurial skills, moral values, ethics, alumni conversations, management games, personal interviews, and current events, domain assess for MBA students.

5. Evidence of Success:

The STP activity has been a great success and help to all students to and due to this their performance in academics, class participation and placements have grown well. Various activities under STP are conducted and the reports or results clearly depicts as to how the students have benefitted out of this initiative. Results, Placements and Skill development / Enhancement

6. Problems Encountered and Resources Required:

Making learners comprehend the practice, keeping records, consolidating data, and analysing results, among other things. Continued and active participation of learners or students is essentially required which is an ongoing process activity for all semesters. Since a large number of activities are planned any student missing any activity leads to loss of knowledge in that activity. It becomes very difficult to re-conduct the activity again.

II - Title of the Practice:

Experiential Learning Practices at Institute

1. Objectives of the Practice:

Experiential learning is also known as learning by doing, learning by experience, and learning via discovery and exploration.

. Students are better able to apply ideas and information taught in the classroom to real-world issues when they are engaged in hands-on activities and reflection.

Community work, service-learning, undergraduate research, study abroad/away, and culmination

experiences like as internships, student teaching, and capstone projects, to mention a few examples, are all examples of experiential learning possibilities.

Students obtain the following benefits by participating in experiential education opportunities:

1. A better grasp of the course material
2. A larger perspective of the world and a sense of community Understanding of their own abilities, interests, passions, and values
3. Collaboration opportunities with a wide range of organisations and individuals
4. Professional practises and skill sets that are beneficial
5. The satisfaction of helping to satisfy a community's demands
6. Self-assurance and leadership abilities

3. The Context:

Sinhgad Technical Education Society's, SKNCOE, Pune, has implemented and hosted and implemented various Experiential Learning Process at Institute physically as well as virtually with full enthusiasm. This provides an ideal platform to discuss latest innovations, share experiences and learn new developments in the various domains of IT, Mechanical , E&TC, Computer and Management Sciences.

One of the Institute's goals is to commit to unlocking latent potential in people, teams, and organisations via the purposeful and transforming process of experiential learning.

The institute imparts training to students in various emerging areas in collaboration with various: companies like Amazon Web Services Academy, Google Cloud, IIT Bombay Spoken Tutorials and so on to make students to adapt in dealing with changing technologies and environments.

The institute encourages the students to opt for internship during winter and summer semester break, which provides an experiential learning opportunity to students that offers an invaluable chance for students to

network and build crucial professional connections before they even graduate. The institute in association with Expert Hub Industry Skill Development Centre, Bangalore organizes at college various internship programs for the students across all states of India. The institute sends one batch of students for internship at Aalborg University, Copenhagen, Denmark and one batch of students at University of Westminster, London in the year 2017-2018.

The institute organizes 02 International Conferences and 02 Project Competitions every year to encourage the students to present their research work and creativity.

The institute has E-Cell to promote the sense of Entrepreneurship among the budding minds and to create the future businessman under the scheme of Make in India.

Sinhgad Overseas Cell works to place students in institutions industry, abroad for: Higher Education (PG/PhD), Summer Internships, Cultural Exchange and Training.

The NSS Unit and Prayas Group of the institution give a new dimension towards the fulfilment of social responsibilities of the institution and inculcate social values among the students and faculty fraternity.

Sinhgad Karandak: Neon the Cultural Fest, Tectonic the Technical Fest for Engineering Students. Spectrum the Technical Fest for Management Students and Sinhgad Sports Karandak are one of the first arenas for students where they are put together from various streams and asked to manage a large event. This taste of a real-world experience can build a variety of skills and be the perfect tool for practical learning

Sinhgad Student Council (SSC) is a perfect epitome of caring, sharing and excelling in potential qualities of students from 14 main clubs and 32 sub clubs. SSC consists of the student members from the 13 different institutes of Vadgaon and Ambegaon campus just to develop a unique network among them to share their learning experiences right from their college life to career guidance. It is a perfect blend of a plethora of clubs to produce competent students to face the newer challenges of today's globalized world by developing their physical, mental and spiritual faculties as well.

The college encourages the students to participate in various technical, cultural and sports event organized by the IITs, NITs and reputed institutes, International National Level SAE events. International Rocketry Events, SAE Aero Events to promote creative ideas and provide a platform for scholars to share their

knowledge. It aims to inspire the students to think innovatively, develop and come out as a pioneer in implementing. Attending these festivals gives knowledge on the different streams of study

Placement training plays a major role in shaping up the career goals of students. Keeping this key aspect into consideration, it is realized that training is important for engineering students to enhance their employability skills and achieve good placement in various Industries. To meet out these requirements, a fully-fledged central placement cell is operating centrally conducting workshops, seminars, soft skill training, conducting employability tests, industrial visits through various campus connect program to enhance the capabilities of engineering graduates on par with the industry standards. Times of India has Ranked the college 19th among Top 50 Private Institutes-Placement in May, 2018.

Sinhgad Institutes collaborates with Amazon Web Services Academy for cloud platform learning programme

At a time when Covid-19 has thoroughly shaken up the education sector and forced institutions to look for ways and means of tackling the ongoing crisis, Sinhgad Institutes has become one of the chosen few premier educational institutes in India to partner with Amazon Web Services (AWS) Academy to offer a cloud platform learning programme. This innovative programme has given students of SKNCOE Sinhgad Institutes access to AWS

Academy, thereby providing them the resources needed to accelerate the cloud-related learning that drives innovation in fields such as artificial intelligence, voice and facial recognition, gaming, medical advancements and more.

4. The Practice:

Under experiential learning process various initiatives that are taken are in various fields of activities such as:

1. SUPRA
2. Baja
3. Robotics
4. Stallion
5. Friodiya Karandak
6. Purshottam Karandak
7. Project Competition

8. Case Study Presentation
9. Field Visits
10. Group Learning Exercises

5. Evidence of Success:

Student engagement, deeper learning, greater academic performance, and increased career and life skills are all benefits of experiential learning.

1. Students were able to absorb things more easily.
2. Students had the ability to express themselves more creatively.
3. Students get the chance to think on what they've learned.
4. Mistakes by students provide wonderful learning opportunities....
5. Teachers frequently notice changes in students' attitudes toward learning.

Critical reflection allows students to draw deep, meaningful, and enduring connections between their prior foundational knowledge, the learning they have encountered as a result of an experiential learning activity, and the circumstance or context in which the learning took place.

Challenges :

Main challenge encountered to get the sponsors for the event. To make them understand about the innovative work and convince them for the same. Second challenge is to conduct the various activities in online mode in last 2-3 Years. In offline mode, there was shortage of resources as participants were more and time is limited. Due to tough competition, it was required to shortlist the registrations and teams' size to a short or limited number.

File Description	Document
Link for Best practices in the Institutional web site	View Document

7.3 Institutional Distinctiveness

7.3.1 Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

Response:

The Smt Kashibai Navale College of Engineering was founded in 2001 by Prof. Maruti N. Navale Sir of the Sinhgad Technical Education Society a society established in year 1992, based in Pune, to represent the ascension of academic excellence in the propagation of quality education from undergraduate to postgraduate and doctoral levels.

SKNCOE, Pune is dedicated to bringing about socio-economic change by delivering inclusive, creative, high-quality education that meets global standards and completely meets the expectations of stakeholders, as envisioned by the founding fathers. To hire and keep highly skilled and motivated teachers and staff, as well as to provide infrastructure facilities, equipment, including machinery.

Provide the conveniences including sports facilities that are environmentally friendly. Interaction between industry and institutes to offer appropriate exposure to students to the working world. To enhance successful teaching and learning, expand the library and give the most up-to-date teaching devices and processes.

We've always strived to be unique by including interdisciplinary research, stimulating startups, creative teaching pedagogy, significance education, empowered society through project introduction, and encouraging entrepreneurship.

RESEARCH THAT IS MULTIDISCIPLINARY

The SKN College of Engineering takes the concept of designing curriculum to present and train students through interdisciplinary involvement of research in teaching. This sort of research enables students to learn by finding connections amongst ideas and concepts from other disciplines.

Students that study in this manner are able to adapt what they've learned in one discipline to a new discipline, enhancing their learning experience. The most successful method of interdisciplinary study allows students to create their individual interdisciplinary pathways between the courses provided in each semester.

Students are taught on the benefits of inter-disciplinary study in the first year itself, thanks to a properly assisted introduction programme.

INSTITUTION'S UNSPOKEN FEATURES:

1. The institute provides comprehensive technical education, ensuring that a worthy student does not miss out on technical education due to socioeconomic restrictions.
2. By well implementation and mapped curriculum and instructions, the Institute provides comprehensive training to develop the skills, knowledge, and inculcate universal values.
3. Disciplinary Board and committee to look into something in disciplinary actions and ragging to make students more acceptable to the business world and encourage entrepreneurship.
4. Our students' NSS wing is engaged in instilling strong social ideals among them.
5. The institution makes a concerted effort to raise student understanding of energy saving and renewable energy consumption. In the dormitory and on the college campus, solar panels are employed.
6. Physically Handicapped people are welcomed and facilities are friendly at the Institution.
7. Extensive career advice initiatives are being organised by the institute to assist students in rural areas by holding campaigns in adjacent communities.
8. Mentoring plan has established a methodical road map for developing many elements of personality development, such as communication skills, presentation skills, teamwork, leadership characteristics, resume writing, and so on, and preparing them to confront the challenges ahead.
9. Different social activities are held for the benefit of the pupils.
10. To avoid sexual harassment, an internal complaint committee was formed.
11. Students received necessary training from the Institute in order to establish and improve capabilities for the placement.
12. Under the auspices of the women's development committee, several personality development programmes and health check-up camps are held.
13. Students have received career development services from the Institute in regards to higher education and advancement prospects.
14. In order to optimise the use of the Library's resources, the Institute has given user education and reference services to instructors.

The NSS unit arranges events like as tree planting and field trips, in addition to various athletic, cultural, and technical activities, to expose students to important concerns in our community. Experts have organised a seminar on Universal Human Value (UHV). The institute guarantees that the NSS unit's social ideals and sense of giving back to the community are not restricted.

PRAYAS :

PRAYAS (Measures in Health, Environment, Learning, & Parenthood) is a Pune-based non-governmental, non-profit organisation.

Prayas volunteers are professionals who strive to defend and promote this same interest of the public in general, as well as the welfare of disadvantaged groups in particular.

SKNCOE, Pune in association with PRAYAS, continually conducts various activities which are funded by Savitribai Phule Pune University for undertaking various activities for Rural and Urban people in an around Pune for welfare of people, public and society at large.

Staff and student activities include the following :

Faculty and support personnel are actively interested in social work and contribute to social issues. Some of them have important positions in these social institutions. The administration of the institute encourages its employees to participate in social activities and values their contributions.

The NSS wing engages students in extracurricular activities.

Institution is about more than just academics, games, friends, and having a good time. It also entails learning to communicate with others, as well as becoming conscious of social, environmental, and gender concerns, as well as societal injustices. Every student has the potential to contribute to making the structure of the society a better place and to develop as better persons.

In the past, the students have organised contribution drives for flood victims. We also rigorously restrict the use of thermocol in any creative endeavours, and the majority of our creative work is accomplished through the recycling of obsolete materials. As a result, SKCOE has committed to be the inspirational candle that will eventually ignite the Beacon of Knowledge. Every faculty member and student is urged to participate.

We at SKNCOE continually motivate, encourage and support our faculty members and students to map with Online as well as Offline Teaching and Learning Process (TLP) with completion of various certification courses from Coursera, Udacity, linkedin, ARPIT, SWAYAM, NPTEL, Udemy, EdX., SkillShare and so on.

Thus, via its academic as well as co-curricular activities, outreach to other institutions including society at large throughout the region, and support of teachers and staff in carrying out socially relevant activities, the college strives to 'connect those, so far anyway, unreachable.

File Description	Document
Link for appropriate web in the Institutional website	View Document
Link for any other relevant information	View Document

NAAC

5. CONCLUSION

Additional Information :

Large no of teachers contributing university work

Outcome Based Education is implemented in all programmes

During Covid Pandemic, successfully conducted online classes and many curricular and co curricular activities for better learning of the students.

IIT spoken tutorials are conducted every year.

Importance of Experiential learning was explained to students time to time. As a result, even though internships were not integral part of curriculum of old pattern during last 5 years, many students successfully completed internship.

For UG, Four programmes and sanctioned Intake is high -1050.

Students active participation in Prayas and NSS

Concluding Remarks :

Since NAAC first cycle accreditation; institute has focused on the suggestions by peer team and has started working on the same. The measures are taken to improve quality of teaching learning process. Contents beyond curriculum are part of classes and laboratories. Outcome Based Education is implemented in all programmes. Number of students taking internship increased drastically in last few years. Maximum final year students presenting their research papers in conferences and journals. Teacher's contribution in terms of research publications, patents raised to new heights. During Covid Pandemic, institute has effectively contributed in terms of academic conduct as well as social responsibilities. Institute has designed unique training modules named STP (Student's Training Program) which contributes tremendously for overall growth of students ; the outcome has been reflected by student's placements.

In Short, institute is very keen for delivering quality education and the outcomes. Institute is progressing rapidly by following guidelines and inputs given by NAAC and aware of National Assessment and Accreditation Council (NAAC) objectives to facilitate the improvement of quality through accreditation, bring more transparency in the accreditation process, to introduce 360 degree feedback mechanism, to enhance credibility and to evolve a system of accreditation at par with the international standards.

6.ANNEXURE

1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification
1.3.3	<p>Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)</p> <p>1.3.3.1. Number of students undertaking project work/field work / internships Answer before DVV Verification : 4738 Answer after DVV Verification: 3682</p> <p>Remark : DVV has excluded Ph.D programs students.</p>
1.4.1	<p><i>Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders</i></p> <p>1) <i>Students</i></p> <p>2) <i>Teachers</i></p> <p>3) <i>Employers</i></p> <p>4) <i>Alumni</i></p> <p>Answer before DVV Verification : A. All of the above Answer After DVV Verification: E. None of the above Remark : DVV has made the changes as per HEI clarification.</p>
1.4.2	<p>Feedback process of the Institution may be classified as follows:</p> <p>Options:</p> <ol style="list-style-type: none"> 1. Feedback collected, analysed and action taken and feedback available on website 2. Feedback collected, analysed and action has been taken 3. Feedback collected and analysed 4. Feedback collected 5. Feedback not collected <p>Answer before DVV Verification : A. Feedback collected, analysed and action taken and feedback available on website Answer After DVV Verification: E. Feedback not collected Remark : DVV has made the changes as per HEI clarification.</p>
2.1.2	<p>Average percentage of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy) during the last five years (exclusive of supernumerary seats)</p>

2.1.2.1. Number of actual students admitted from the reserved categories year-wise during the last five years

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
445	485	320	470	477

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
377	377	309	369	336

Remark : DVV has made the changes as per shared report by HEI.

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

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

Answer before DVV Verification : 15

Answer after DVV Verification: 3

Remark : DVV has made the changes as per average of teacher and students using library per day on (dates)

5.3.1 **Number of awards/medals won by students for outstanding performance in sports/cultural activities at inter-university/state/national / international level (award for a team event should be counted as one) during the last five years.**

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) year-wise during the last five years.**

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
03	52	17	24	21

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
02	36	05	11	09

Remark : DVV has considered sports/cultural awards at University/Inter-University/State/National/International level only from the e-copies.

6.3.4 **Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the last five years (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course).**

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

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
140	158	98	139	104

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
110	96	45	85	95

Remark : DVV has considered 5 days and above FDPs only from the data template.

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

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

Answer before DVV Verification:

2020-21	2019-20	2018-19	2017-18	2016-17
1	1	1.33743	1	1

Answer After DVV Verification :

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	0	0	0

Remark : HEI has not shared relevant supporting documents.

6.5.3 Quality assurance initiatives of the institution include:

1. **Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements**
2. **Collaborative quality initiatives with other institution(s)**
3. **Participation in NIRF**
4. **any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)**

Answer before DVV Verification : A. All of the above

Answer After DVV Verification: E. None of the above

Remark : DVV has made the changes as per HEI clarification.

7.1.4 Water conservation facilities available in the Institution:

1. **Rain water harvesting**
2. **Borewell /Open well recharge**
3. **Construction of tanks and bunds**
4. **Waste water recycling**
5. **Maintenance of water bodies and distribution system in the campus**

Answer before DVV Verification : B. 3 of the above

Answer After DVV Verification: C. 2 of the above

Remark : DVV has select C. 2 of the above as per shared report bY HEI.

2.Extended Profile Deviations

ID	Extended Questions																				
1.1	<p>Number of students year-wise during last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>4738</td> <td>4295</td> <td>4540</td> <td>5013</td> <td>5122</td> </tr> </tbody> </table> <p>Answer After DVV Verification:</p> <table border="1"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>4682</td> <td>4239</td> <td>4517</td> <td>5037</td> <td>5120</td> </tr> </tbody> </table>	2020-21	2019-20	2018-19	2017-18	2016-17	4738	4295	4540	5013	5122	2020-21	2019-20	2018-19	2017-18	2016-17	4682	4239	4517	5037	5120
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1.2	<p>Number of seats earmarked for reserved category as per GOI/State Govt rule year-wise during last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>527</td> <td>613</td> <td>517</td> <td>502</td> <td>475</td> </tr> </tbody> </table> <p>Answer After DVV Verification:</p> <table border="1"> <thead> <tr> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> </tr> </thead> <tbody> <tr> <td>527</td> <td>613</td> <td>517</td> <td>498</td> <td>475</td> </tr> </tbody> </table>	2020-21	2019-20	2018-19	2017-18	2016-17	527	613	517	502	475	2020-21	2019-20	2018-19	2017-18	2016-17	527	613	517	498	475
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NAAC