



SELF STUDY REPORT

FOR

2nd CYCLE OF ACCREDITATION

SANDIP INSTITUTE OF ENGINEERING AND MANAGEMENT

**AT POST MAHIRAVANI, TRIMBAK ROAD, NASHIK
422213**

<https://siem.sandipfoundation.org>

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

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1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Sandip Foundation campus founded in 2005 by visionary Chairman "Dr. Sandip Kumar Jha" with the aim to create, preserve, renew and disseminate knowledge for the betterment of the society. The solitary objective of the Sandip Foundation is to offer quality education in the fields of Engineering, Management, Polytechnic and Pharmacy.

Sandip Institute of Engineering and Management (SIEM) started in the year 2010 and is located in the scenic, eco-friendly and conducive-to-study campus at an elevation off the Trimbak Road, Mahiravani, Nashik-Maharashtra. SIEM is self-financed institute approved by All India Council for Technical Education (AICTE), New Delhi Government of India and affiliated to Savitribai Phule Pune University. This Institute is NAAC Accredited with B++ Grade and 2.89 CGPA in cycle1. At present the Institute provides undergraduate courses in the following disciplines: Civil Engineering, Computer Engineering, Electrical Engineering, Electronics and Telecommunication Engineering and Mechanical Engineering.

The Governing Council of SIEM consist of distinguished industrialists and educationalists as members. With the goal of providing quality education, SIEM is giving importance to qualified and experienced faculty for effective teaching-learning process. Institute provides spacious ICT enabled classrooms, well equipped laboratories, central library, sports ground and separate hostels for girls and boys. Institute also has a dedicated Training and Placement cell that contributes in making the students industry ready and employable.

Vision

We at SIEM aspire to be a globally recognized Institute that delivers a world class education to outstanding intellectuals by nurturing and grooming their interests, creative abilities and thrusts to acquire a life-long learning so as to imbibe values of their commitment towards society

Mission

We at SIEM shall strive continuously

- To inculcate and imbibe knowledge of cutting-edge technologies and its implementation for solving real life problems in a conducive environment.
- To collaborate with National and International Institutes and industries of repute for sustainable growth through team work.
- To motivate and retain highly skilled and knowledgeable individuals, whose creativity and interest in teaching upholds to achieve desired goals.
- To provide a dedicated platform to cater the needs of individuals and inspire them for their intellectual growth and character building.

- To enable the students to achieve excellence in the chosen fields and to share the responsibilities of citizenship and service in a disciplined manner.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

- Pollution-free lush green campus with beautiful landscaping.
- State of art infrastructure which includes well-equipped laboratories, ICT enabled classrooms, Seminar Halls, Library, Sports facilities etc.
- Team of highly skilled and experienced faculty members.
- Accredited by NAAC with B++ Grade with 2.89 CGPA in cycle 1.
- Central library with adequate collection of books and e-resources.
- Value Addition Programs.
- Excellent placement record.
- MoUs with International Universities.
- Workshops, seminars, webinars and expert lectures on all domains.
- Student's participation in co-curricular, extra-curricular and community services.
- Separate Hostels for girls and boys in the campus.
- Employability skill training to all the students.
- IPR Cell to promote IPR activity.
- Effective Entrepreneurship Development Cell.
- Wi-fi enabled campus with CCTV surveillance.
- Transportation facility - connectivity to all the corners of the city.
- Banking and ATM facility.
- Self-dependent water resources.
- Solar panels are installed as an alternate sources of Energy.

Institutional Weakness

- Consultancy activities to be strengthened.
- Interdisciplinary research to be enhanced.
- Industry Institute Interaction need to be improved.
- Participation of alumni in overall growth of the Institute require to be enriched.

Institutional Opportunity

- To start Research Centre & PG Courses.
- Interdisciplinary R & D Projects.
- Quality research publications.
- Collaboration with research Institutes/Organizations for projects and consultancy work.
- Interface with industry for learning advanced technology and engineering practices.
- To get an autonomous status.

Institutional Challenge

- Placement in blue chip companies / core companies.
- Attracting meritorious students.
- Achieving NIRF ranking.
- Encouraging students for entrepreneurship and startups.
- Preparing students for higher studies and competitive exams.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

The Institute follows the curriculum set by Savitribai Phule Pune University (SPPU) in which various cross cutting issues related to professional ethics, gender, human values, environment and sustainability are covered. SPPU has provision of revision and updation in syllabus as per the demand of current trends of the industry and research. The Institute provides necessary facilities for implementation of the curriculum to convene the Vision and Mission. Academic Monitoring Committee (AMC) plans, prepares and implements academic calendar and event calendar in coordination with Internal Quality Assurance Cell (IQAC). Institute has Enterprise Resources Planning (ERP) system for proper execution of formulated academic policies.

Faculty members of the Institute contribute in designing and developing curriculum at the University level under their respective Board of Studies. To further enrich the curriculum and the improving teaching practices, Institute supports the faculty members in various ways by providing necessary resources. Various co-curricular and extra-curricular activities are regularly organized at the Institute. Rubrics are framed for the continuous assessment of laboratory courses, project work and seminars which are monitored by AMC.

In addition to this, the Institute aims at enriching students by offering various value added programs, certification courses, workshops, seminars, internships, summer school training and soft skill development programs in their respective field. Overall 86 value added programs are offered by Institute with 60 % student's enrollment during last five years. Total 92% of students participated in Project Based Learning, Internship and Project Work etc.

Obtaining regular feedback from stakeholders is regular practice followed by the Institute for improvement of teaching-learning process and support facilities. All these feedbacks are analyzed and necessary steps are taken for further development.

Teaching-learning and Evaluation

The institute provides quality in engineering education through student-centric teaching-learning pedagogy to ensure inclusive development of the students. The Institute has qualified, experienced and proficient faculty members with the student-teacher ratio of 18.45.

Academic Monitoring Committee (AMC) is constituted for monitoring and execution of overall academic process. An academic calendar is prepared before the commencement of each semester. The calendar outlines entire academic schedule as per SPPU academic calendar along with the Institutional activities.

Institute has adopted modern teaching learning practices in conjunction with conventional teaching learning methods like ICT enabled class rooms, use of e-resources, collaborative learning, LMS, Google Classroom, Blogs, slideshow, YouTube videos etc. During the pandemic Institute effectively carried out entire teaching learning process using online platforms like Google Meet, Zoom, and Microsoft Teams.

The students are encouraged for various MOOC courses, NPTEL, Coursera, and Infosys Springboard. The Institute encourages the students for experiential, participative and problem solving learning methodologies through their project work based on PBL, industrial visits, field work, internship and participation in various competitions like Smart India Hackathon , AICTE Chhatra Vishwakarma Awards, SAE BAJA, MEGA ATV championship, Avishkar, KPIT Sprakle etc. The Institute guide and support the students and faculty members for inclusive development via professional bodies like IEI, IPA, ACCE, IET, ISTE, IEEE, CSI, SAE etc.

The Institute adheres with “Outcome Based Education” philosophy for measurement of attainment levels of Course Outcomes and Program Outcomes. The internal questions papers are set as per latest examination reform policy and assessment is done transparently and efficiently and this benefits to improve the percentage of result up to 90 % during last five years.

Research, Innovations and Extension

The Institute endorses research and development (R&D) activities amongst the faculty members and students by encouraging and supporting for research, innovation and IPR. The Institute has made steps to develop an ecosystem for the execution of research, innovation and IPR related activities via forming R&D cell, Entrepreneurship Development Cell (EDC) & Institution’s Innovation Cell (IIC) etc. Well defined Research & IPR policy is available for the faculty members and students together with this the significance of innovations are acknowledged by the Institute. As a result of the Institute's encouragement of patent filing till date total 102 patents have been filed and out of them 95 patents are published and 10 patents are approved by the Indian government's Patent Office.

Various workshops, conferences, seminars, webinars and expert sessions of well-known personalities are regularly organized at the Institute to encourage the spirit of innovation among the students and faculty members. During last five years total 281 workshops, seminars, and conferences etc. are organized by the Institute. Total research grant of Rs.25.45 Lakhs have been received to carry out research projects. Faculty members of the Institute have total 752 publications to their credit via. Books, Book Chapters, research papers in edited volumes and proceedings of National and International conferences. In addition to this 272 research papers are published in reputed International Journals.

Total 76 extension and outreach programs in the local community have been conducted by the Institute for comprehensive development of students through clubs like NSS, nature and social, financial literacy, cultural, technological, sports etc. Over the past five years, the Institute has been honored and awarded on twelve occasions for its extension initiatives.

The Institute encouraged and supported the students for participation in various competitions and events at state and national level to showcase their skills and talent. Students participated in various completions like SAE BAJA, Smart India Hackathon, Chattra Vishwakarma Awards, SAE BAJA, MEGA ATV championship and Avishkar and rewarded with prizes and awards. Institute has total 45 Memorandums of Understanding (MoU) and 225 collaborations and linkages that has provided stage to the faculty members and students for interaction with outside world.

Infrastructure and Learning Resources

Institute constantly tries to build and maintain the state of the art infrastructure facilities catering to the current and future needs of the students adhering to the policies, norms and procedures set by AICTE and SPPU. Institute has campus area of 8.278 acres with 13327.64 Sqm. instructional, 1697.42 Sqm. administrative and 2051.08 Sqm. amenities area. Institute is having adequate infrastructure and physical facilities for teaching-learning. Total area of the Institute is divided in five block namely A, B, C, D, E having total built up area of 23284.12 Sqm. and is 19757.71 Sqm. carpet area. Total 32 class rooms with proper lighting, seating space and ventilation with LCD projector and LAN/Wi-Fi facilities, 8 Tutorial rooms, 66 laboratories equipped with good quality equipment are available. 541 personnel computers with adequate student computer ratio with separate computer center exist in the Institute. Workshop with area 1015 Sqm. and three seminar halls equipped with audio visual system is available. Library and reading room of area 757 Sqm. is incorporated with digital library along with OPAC to get access to e- learning resources. Total 22495 books, 46 Journals/Magazines and 1800 CDs and DVDs are accessible in library.

The campus is having Wi-Fi at most of the places and 24 x 7 internet bandwidth of 30 Mbps is available. Every department of the Institute has an adequate number of computer labs with equipment like PCs, printers, scanners, LAN connections, Wi-Fi etc. Virtual labs, NPTEL, swayam portal and other network facilities are provided to improve e-resources. The Institute has 28275 Sqm. of common playground for outdoor games, sports and contests of all levels. In addition to this an indoor gymnasium equipped with sufficient equipment and accessories is available. The Institute is having dedicated Yoga center and separate sports room with sports equipment for indoor activities like chess, carom and table tennis. Amphitheatre is available in the campus for conducting cultural activities Separate boys and girl's common room are available along with a medical center at the Institute. CCTV cameras are installed at prominent places in the campus.

Student Support and Progression

The Institute strives to provide the best possible facilities and opportunities for student support and progression in all possible ways. The Institute guides the eligible students for availing the scholarship facilities and during last five years 84% of students are benefited from different from scholarships schemes.

Institute also focuses on enhancing student capabilities by providing guidance for soft skill, life skills, recent technological trends, competitive exams, languages and career-counseling etc. Various committees are functioning for welfare of the students like anti ragging committee, internal compliance committee, student redressal committee etc.

The Training & Placement activity of the Institute plays vital role for employability of the students. The Institute has a committed Training & Placement Cell (TPC) and an Entrepreneur Development Cell (EDC) that provides campus placement, guidance for entrepreneurship, higher studies, industrial training and visits, internships, projects and competitive examination opportunities to the students. During last five years average 64% of students are successfully placed in various companies and admitted for higher studies in addition to this 86 training programs are conducted and 6116 students are benefited from that.

Considering the importance of extracurricular activities the Institute celebrates its annual festival known as "Sandipotsav" with active participation of the students. Institute also organizes National level "Techfest" every year which is supported by the respective departmental students associations. The Institute has playgrounds and

gymnasium, sports room and yoga centre with dedicated physical director to guide the students. Students actively participate in several games and competitions at different levels and awarded with prizes.

Institute has a registered Alumni association in order to maintain a good link-up with alumni to develop mutual cooperation. The Alumni meet is conducted on regular basis and irrespective of this the institute engages the alumni support in many ways such as alumni interaction with the existing students, collecting suggestions, feedback on the existing curriculum, updates on emerging trends etc.

Governance, Leadership and Management

The Vision and Mission of the Institute is reflected in its governance and leadership. The organizational structure of the Institute ensures decentralization and participative management at different levels. The management including Governing Council and College Development Committee provides effective leadership and administration for planning and implementation of academic, curricular and extracurricular activities.

The academic and administrative activities are designed and carried out in line with the strategic plan to obtain desired outcome. Institute has appointed Deans, HODs and various committee Co-ordinators for implementation of strategic plan for teaching and learning, research and development, placements, training programs with industries and tie up with International Universities and organizations etc. Institute promotes e-governance in various areas of operations such as administration, finance and accounts, admissions and examination.

Faculty members are recruited as per the norms and their competence is upgraded through professional development and training programs organized in the Institute as well as promoting them to attend outside with financial support. Total 286 faculty members are benefited with financial support during last five years. Institute has performance appraisal system and welfare schemes for teaching and non-teaching staff such as gratuity, PF, loan through cooperative society, medical leaves, maternity leave etc.

Institute has a well-defined procedure to monitor utilization of available financial resources. Careful planning of budget for academic and administrative activities is done. Optimal utilization of financial resources through internal and external audits ensure financial management at the Institute. The activities of the IQAC are combined with the requirements of the accreditation bodies. The IQAC regularly reviews the teaching learning process, structures, methodologies of operations and learning outcomes. The IQAC prepares, evaluates and recommends Annual Quality Assurance Report (AQAR), Self-Study Report, stakeholder's feedback, academic audit and action taken reports etc.

Institutional Values and Best Practices

Institute believes in providing comprehensive environment and treats the students, staff and supporting staff equally. This is apparent from the existence of tolerance and harmony amongst the students and staff members towards cultural, regional, linguistic, communal and socioeconomic diverse environment. Institute has undertaken initiatives like use of alternate energy, waste management, water conservation, energy and green audit

Institute has decisively started a number of initiatives to advance gender equality and awareness in order to foster a feeling of safety and security on campus. Different committees and cells are functional such as women grievance cell, anti-ragging committee, internal complaint cell etc. Everybody is able to discover welcoming and peaceful atmosphere that embraces variety in terms of culture, geography, language, community and socioeconomic status. Institute regularly organizes activities like blood donation camp, Swachh Bharat Abhiyan and awareness camp in a nearby community. All the commemorative days are celebrated in order to foster a friendly environment of unity and tolerance. Students have an opportunity to display their cultural, regional, and social talents through the institute's annual cultural festival. Through National Service Scheme and clubs the Institute has established an ecosystem in response to the desire to give back to society. Students are encouraged to take part in events that support environmental sustainability and societal harmony. Activities like cleanliness drive Camp, Go Green Movement, activities in ZP School, Health and Hygiene Awareness Program for women are executed with full dedication. The International Affairs Cell of the institute focuses on collaboration in scientific research and academic mobility. Ten active Memorandums of Understanding (MOUs) with the reputed International Universities enable the sharing of technical insights and information. Under these MOUs certain activities like participation in summer school training program, guest lectures, workshops and participation in faculty and students exchange for higher education and research are conducted.

Institute is surrounded with variety of trees, herbs and plants as a part of landscaping that keeps the campus free from air and noise pollution. The Institute created its own water supplies for effective utilization of rain/storm water.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	SANDIP INSTITUTE OF ENGINEERING AND MANAGEMENT
Address	At post Mahiravani, Trimbak Road, Nashik
City	Nashik
State	Maharashtra
Pin	422213
Website	https://siem.sandipfoundation.org

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	Dipak Pandurang Patil	02594-222581	9545453265	02594-222555	principal@siem.org.in
IQAC / CIQA coordinator	Kamini Ashutosh Shirsath	02594-222581	9673003150	02594-222555	kamini.nalavade@siem.org.in

Status of the Institution	
Institution Status	Private and 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	
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State	University name	Document
Maharashtra	Savitribai Phule Pune University	View Document

Details of UGC recognition		
Under Section	Date	View Document
2f of UGC	20-12-2018	View Document
12B of UGC		

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	30-03-2017	12	Extension of Institution approval
AICTE	View Document	30-03-2017	12	Extension of Institution approval
AICTE	View Document	30-03-2017	12	Extension of Institution approval
AICTE	View Document	30-03-2017	12	Extension of Institution approval

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	At post Mahiravani, Trimbak Road, Nashik	Rural	250	24363.03

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,Mechanical Engineering, Mechanical Engineering	48	HSC XII	English	60	47
UG	BE,Civil Engineering,Civil Engineering	48	HSC XII	English	120	7
UG	BE,Computer Engineering ,Computer Engineering	48	HSC XII	English	60	60
UG	BE,Electrical Engineering, Electrical Engineering	48	HSC XII	English	60	36
UG	BE,Electronics And Telecommunication, Electronics And Telecommunication Engineering	48	HSC XII	English	60	59

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	7				15				56			
Recruited	3	1	0	4	7	3	0	10	33	23	0	56
Yet to Recruit	3				5				0			
Sanctioned by the Management/Society or Other Authorized Bodies	0				0				9			
Recruited	0	0	0	0	0	0	0	0	7	2	0	9
Yet to Recruit	0				0				0			

Non-Teaching Staff						
	Male		Female		Others	Total
Sanctioned by the UGC /University State Government						59
Recruited	45		14		0	59
Yet to Recruit						0
Sanctioned by the Management/Society or Other Authorized Bodies						59
Recruited	45		14		0	59
Yet to Recruit						0

Technical Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				39
Recruited	26	13	0	39
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				39
Recruited	26	13	0	39
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.	3	1	0	7	3	0	0	0	0	14
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	40	25	0	65
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	525	4	0	0	529
	Female	233	1	0	0	234
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years

Category		Year 1	Year 2	Year 3	Year 4
SC	Male	12	13	21	9
	Female	6	4	1	2
	Others	0	0	0	0
ST	Male	6	30	43	6
	Female	3	5	10	0
	Others	0	0	0	0
OBC	Male	106	64	59	44
	Female	38	20	17	11
	Others	0	0	0	0
General	Male	31	25	21	24
	Female	7	6	1	5
	Others	0	0	0	0
Others	Male	29	25	21	6
	Female	5	5	2	1
	Others	0	0	0	0
Total		243	197	196	108

Institutional preparedness for NEP

1. Multidisciplinary/interdisciplinary:	The Vision of National Education Policy, to provide high quality education to develop human resources in our nation as global citizens. Sandip Institute of Engineering and Management is following NEP-2020
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to develop human resources. Faculty members are made aware and encouraged to discuss on key principles of NEP like diversity of curriculum and pedagogy with technological innovations in teaching and learning encouraging logical decision making, and innovation critical thinking and creativity. The Institute is affiliated to Savitribai Phule Pune University, Pune where in academic programs may be redesigned and include multidisciplinary and interdisciplinary courses as electives, honoured courses, emerging areas in engineering offered by other department. In order to provide the holistic academic growth among students, Inter-disciplinary curriculum has been proposed which gives freedom to the student to choose their preferred options from the range of program offered by the institution. All the courses offered by institute are Choice Based Credit System (CBCS). Few of (them also include value based and environment-based subjects like professional Ethics, Environmental studies etc. Through NSS, institute social responsibility, local community engagement and services provided by faculty and student through work, environmental education, value based education. Induction/orientation programs are being conducted on multidisciplinary perspectives in the area of engineering, planning, management, environment, values and society. All programmes are designed in such a way that students get maximum flexibility to choose elective courses offered by other Departments. It can be said that the Institute is proactively working towards implementation of the suggestions given in the NEP Guidelines.

2. Academic bank of credits (ABC):

Our institution follows the process related to the Academic Bank of Credits(ABC) as directed and governed by affiliating university Savitribai Phule Pune University, (SPPU), Pune. SPPU being state university is an official member of the National Academic Depository which is a government endeavour to offer an online repository for all academic awards under the Digital India Programme. From 2020 onwards, SPPU is working towards the national digital locker through its affiliated colleges. The National Academic Bank of Credits (ABC) portal has now been integrated into the NAD portal <https://nad.digitallocker.gov.in> platform and is currently live from academic year 2021 onwards.

	<p>SPPU follows a choice-based credit system (CBCS) for all its programmes. Under the university, institute offers all repository for all academic awards under the digital India program. The institute follows the process related to the ABC as directed and governed by Academic council of Savitribai Phule Pune University, (SPPU), Pune.</p>
<p>3. Skill development:</p>	<p>The institute takes continuous efforts to strengthen technical, vocational, soft skills of the students. The institute conducts value added programs for implementation of NEP. The institute also focusing on soft skill development of the students. Aligning to the proposal of NEP 2020, the institute focuses on knowledge and skills development to develop graduate attributes and enhance employability skills of students. As part of the curriculum, various expert talks, workshops and seminars, internship and field visits enable the students to acquire relevant work experience and skills like team work, planning, problem solving, communication and flexibility. The students are provided with the opportunity to participate in various activities such as Seminar presentation, project competitions which help in developing presentation skills and communication skills, whereas, the activity of writing term papers help in enhancing their analytical skills and academic writing. Students are engaged in various curricular and co-curricular activities which helps in developing skills of problem solving, creative thinking, socio-emotional skills, leadership, multi-tasking and managing deadlines. Mandatory audit courses, electives, and honours courses has been introduced with the learning outcomes in terms of understanding the theoretical and practical of education, skill development and ability.</p>
<p>4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):</p>	<p>The Institute ensures appropriate integration of the Indian Knowledge system by adopting multilingualism in the classrooms. Opportunities are provided to the students to participate national priority programme. NSS Cell celebrates Independence Day and Republic Day in the campus. Various departments also organizes and celebrates birth and death anniversaries of all the Freedom Fighters and people of National Importance. During the The annual social event “Sandipotsav” has programs which are classical and semiclassical singing, Bharatnatyam, Kathak and regional/folk</p>

	<p>dances, Instrument Playing talents of students and staff. It also showcases Rangoli, art, craft and Painting talents of the students. Ganesh Idol making competitions are also held by the Institute. Though the medium of communication is English and students have to appear for SPPU examinations in English language itself, faculty use vernacular language (Marathi) or Hindi at times to make a singularly difficult concept simple to understand. Regional languages are deliberately used while mentoring the students in tutor meetings or while addressing academic/personal queries raised by students. This ensures a comfortable and at-home.</p>
<p>5. Focus on Outcome based education (OBE):</p>	<p>Institute is affiliated to Savitribai Phule Pune University (SPPU) and the syllabus for UG programmes is designed to promote outcome-based education and to measure the effectiveness of student learning outcomes through observable and measurable rubrics oriented assessments. To implement OBE, Program Specific Outcomes (PSO), Programme Outcome (PO) and Programme Educational Objectives (PEO) are defined for each programme of UG. Course Outcomes (CO) are defined for all courses. CO's are analysed after completion of the evaluation of each course at the end of the semester and PSO and PO are analysed after completion of the finite duration of each programme. Later, after a few years of passing out from the programme, the expected achievements of the graduates, PEO are analysed based on their performance in their careers</p>
<p>6. Distance education/online education:</p>	<p>Institute is affiliated to Savitribai Phule Pune University (SPPU) and is directed by SPPU as regards syllabus, instructions, examination and evaluation. The four years undergraduate full-time programmes in Civil, Computer, Electrical, ENTC and Mechanical Engineering offered are to be completed in offline, physical, on-campus mode and there is no provision or feasibility of distance education. During pandemic, all the academic activities like theory lectures, practicals, theory and viva-voce examinations, projects, seminars, etc were being conducted purely in online mode using platforms like Google Meet, Zoom etc. Google classroom was used for circulation of study material. The online lectures delivered then have been made available as video lectures on LMS and blogs created</p>

by the faculty members for anyone to refer to. Thus, our Institute and its faculty are well-prepared to offer ODL to become a multidisciplinary HEI. As on date too, the faculty members are using google classrooms, blogs, Video channels to deliver portion of their curriculum in online mode.

Institutional Initiatives for Electoral Literacy

<p>1. Whether Electoral Literacy Club (ELC) has been set up in the College?</p>	<p>Electoral Literacy Club has been set up in the Institution and is functioning in coordination with National Service Scheme(NSS). The Principal is the chairperson of the ELC with NSS program officer as the faculty coordinator. The objective of the club is sensitizing students about their democratic rights.</p>
<p>2. Whether students' co-ordinator and co-ordinating faculty members are appointed by the College and whether the ELCs are functional? Whether the ELCs are representative in character?</p>	<p>Yes. The ELC has both faculty coordinators and coordinating members appointed by Principal of the Institution. the Electoral Literacy Club objectives are as follows: 1. To create awareness and interests among faculties and students . 2. To educate the faculties and students about voter registrations, election process etc. 3. To create awareness among students about importance of their votes. This will ensure that the students will exercise their right in a comfortable and ethical manner. 4. To facilitate voter registration for eligible members. 5. To promote and facilitate the registration for graduate Consultancy and teacher MLA.</p>
<p>3. What innovative programmes and initiatives undertaken by the ELCs? These may include voluntary contribution by the students in electoral processes-participation in voter registration of students and communities where they come from, assisting district election administration in conduct of poll, voter awareness campaigns, promotion of ethical voting, enhancing participation of the under privileged sections of society especially transgender, commercial sex workers, disabled persons, senior citizens, etc.</p>	<p>The following are the initiatives taken by ELC of the Institution 1. Voter Registration for Graduate Constituency 2. Right to Vote- Pledge 3. Right to vote- Awareness among people in the Institution and nearby Villages. 4. Right to vote, Democracy- poster competition among students.</p>
<p>4. Any socially relevant projects/initiatives taken by College in electoral related issues especially research projects, surveys, awareness drives, creating content, publications highlighting their contribution to</p>	<p>Students have participated in voter awareness camp organized by NSS. Students spread awareness among people in nearby villages about voting during NSS camps.</p>

advancing democratic values and participation in electoral processes, etc.	
5. Extent of students above 18 years who are yet to be enrolled as voters in the electoral roll and efforts by ELCs as well as efforts by the College to institutionalize mechanisms to register eligible students as voters.	The students above 18 years are motivated to register as voter by way of awareness camp and pledge

Extended Profile

1 Students

1.1

Number of students year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
1513	1768	2018	1880	2170

File Description	Document
Upload Supporting Document	View Document
Institutional data in prescribed format	View Document

2 Teachers

2.1

Number of teaching staff / full time teachers during the last five years (Without repeat count):

Response: 243

File Description	Document
Upload Supporting Document	View Document
Institutional data in prescribed format	View Document

2.2

Number of teaching staff / full time teachers year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
82	88	97	106	116

3 Institution

3.1

Expenditure excluding salary component year wise during the last five years (INR in lakhs)

2022-23	2021-22	2020-21	2019-20	2018-19
550.49	662.67	712.90	492.00	897.01

File Description	Document
Upload Supporting Document	View Document

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

1.1.1

The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of continuous internal Assessment

Response:

Sandip Institute of Engineering and Management (SIEM) is affiliated to Savitribai Phule Pune University (SPPU). The Institute prepares and follows the academic calendar based on the academic schedule and curriculum of the SPPU effectively in following manner.

- Before commencement of every academic year, Principal approves the academic monitoring committee (AMC) which is headed by dean academics of the Institute.
- AMC plans and prepares academic calendar and event calendar in coordination with Internal Quality Assurance Cell (IQAC).
- Teaching load distribution is conveyed to all faculty members well in advance. While finalizing the teaching load, due consideration is given to subject choice, specialization and expertise of the faculty.
- Each faculty prepares a course file which contains information related to Academic Calendar, Event Calendar, Individual Time Table, CO-PO-PSO Mapping, University Structure and Syllabus, Teaching Plan, List of References and Textbooks, Question Bank, e-contents, Unit-wise Notes, previous years Question papers of Class Test / INSEM / END SEM Examinations, Tutorials/ Assignments, Lab manuals.
- The faculty uses creative teaching and learning methods, including ICT-based tools and NPTEL videos for the students. This approach enhances student's engagement and fosters effective learning. Faculty and students are motivated for participation in STTP/FDP/NPTEL/Swayam courses to enhance their knowledge of recent trends and technologies.
- Rubrics are framed for the continuous assessment of Laboratory courses, project work, and seminars.
- AMC monitors the effective implementation of the Academic Calendar, Event calendar and the status of syllabus coverage for theory and practical.
- Institute has well equipped Enterprise Resources Planning (ERP) for proper execution of formulated academic policies. ERP provides support to various administrative & academic activities. ERP is utilized to upload class timetables, monitor student's daily attendance and to communicate

learning material/notices to students and parents.

- Institute has a well-developed tutor system to monitor academic performance, mentoring and counseling of every student.
- The Institute has a well-defined process for the conduct of continuous internal assessment which is in line with SPPU curriculum. Institute conducts internal tests to observe the performance of the students at regular intervals. As per SPPU schedule the Institute conducts in-semester examination.
- Each department aims at enriching students with updated field knowledge by covering contents beyond syllabus, value added programs, workshops, seminars, industrial visits and expert lectures etc.
- At the start of each academic year the Institute organizes induction program for First Year Students.
- Extra library hours are incorporated for effective utilization of the library resources for the students. E-library is well equipped with E resources like video lectures, J Gate, DELNET, E-sangrah Database, E-Journals.
- Online teaching learning tools were used by all the teachers for carrying out teaching learning process during the pandemic.

Inter-department faculties and External authorities carry out periodic Academic and Administrative Audits to adhere to the effective delivery and implementation.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

1.2 Academic Flexibility

1.2.1

Number of Certificate/Value added courses offered and online courses of MOOCs, SWAYAM, NPTEL etc. (where the students of the institution have enrolled and successfully completed during the last five years)

Response: 04

File Description	Document
List of students and the attendance sheet for the above mentioned programs	View Document
Institutional programme brochure/notice for Certificate/Value added programs with course modules and outcomes	View Document
Institutional data in the prescribed format	View Document
Evidence of course completion, like course completion certificate etc. Apart from the above:	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

1.2.2

Percentage of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years

Response: 4.15

1.2.2.1 Number of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
51	21	238	78	00

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

1.3 Curriculum Enrichment

1.3.1

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

Response:

The Institute follows the curriculum designed by Savitribai Phule Pune University (SPPU), Pune which includes various subjects/chapters/elective courses covering cross cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum. The institute takes suitable actions to focus on these issues by arranging some co-curricular and extra-curricular activities frequently to create awareness among the students about these issues.

To integrate the crosscutting issues Value added programs, Workshops, Short term training programs, Expert Lectures, Internships, Training sessions are organized and it is ensured that students are benefitted by attending these sessions.

- The curriculum has integrated **environment and sustainability** issues in some of the courses, which are as follows

SPPU has recently introduced the subject Environmental Studies, which is to be studied compulsorily by all students of First year engineering. On studying this subject, awareness among the stakeholders about ecology and ecosystem is developed. Knowledge enrichment about various sources of Water, Air, Soil pollution is done. Along with that preventive and remedial measures to mitigate these types of pollution are also studied.

The concept is **sustainable development** is shared with the students and ways of development with protection of natural resources and its availability for future generation is discussed.

Environmental Engineering studied by the students of Civil Engineering and it highlights the aspect related to the different component of environment, functions of eco system, Natural resources, bio diversity and its conservation, air, water, soil, chemical and noise pollution etc. Major thrust is given to understand the concept of 3R' viz reduce, recycle and reuse and its implementation by adopting environment friendly measures in day to day activities.

- The curriculum has integrated **Human Values issues**, which are as follows

Workshop on Universal human values is conducted, which is attended by most of faculty, especially the senior faculty. Institute has the culture to promote and protect human values among its stakeholders. Difficulties of students are understood through tutor system and their problems are resolved keeping in mind that the stakeholders are human beings, so they can have their inherent limitations.

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

Professional ethics and Etiquette has been incorporated to create awareness about professional behaviour according to the employer, customer, coworker, and other stakeholder expectations. It explains the importance of ethics as part of the persuasion process.

Students are groomed in professional ethics via Interview preparation techniques. How to lead a effective professional life, it is taught during these sessions.

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

Institute organizes various programs to sensitize students about the gender equality, Boys and girls work together in various curricular and co-curricular activities like Project, seminars, paper presentation, GD,

PI, technical quiz, debate, Cultural Program etc. through departmental association activities.

The above-mentioned topics are covered related to cross cutting issues in a curriculum. All departments conduct various activities related to cross cutting issues under department associations, Nature club and NSS.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

1.3.2

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

Response: 91.74

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

Response: 1388

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

1.4 Feedback System

1.4.1

Institution obtains feedback on the academic performance and ambience of the institution from various stakeholders, such as Students, Teachers, Employers, Alumni etc. and action taken report on the feedback is made available on institutional website

Response: B. Feedback collected, analysed and action has been taken and communicated to the relevant bodies

File Description	Document
Feedback analysis report submitted to appropriate bodies	View Document
At least 4 filled-in feedback form from different stake holders like Students, Teachers, Employers, Alumni etc.	View Document
Action taken report on the feedback analysis	View Document
Link of institution's website where comprehensive feedback, its analytics and action taken report are hosted	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1

Enrolment percentage

Response: 49.43

2.1.1.1 Number of seats filled year wise during last five years (Only first year admissions to be considered)

2022-23	2021-22	2020-21	2019-20	2018-19
265	207	212	116	238

2.1.1.2 Number of sanctioned seats year wise during last five years

2022-23	2021-22	2020-21	2019-20	2018-19
360	420	420	420	480

File Description

Document

Institutional data in the prescribed format

[View Document](#)

Final admission list as published by the HEI and endorsed by the competent authority

[View Document](#)

Document related to sanction of intake from affiliating University/ Government/statutory body for first year's students only.

[View Document](#)

2.1.2

Percentage of seats filled against reserved categories (SC, ST, OBC etc.) as per applicable reservation policy for the first year admission during the last five years

Response: 56.36

2.1.2.1 Number of actual students admitted from the reserved categories year wise during last five years (Exclusive of supernumerary seats)

2022-23	2021-22	2020-21	2019-20	2018-19
109	105	122	74	148

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

2022-23	2021-22	2020-21	2019-20	2018-19
180	180	180	210	240

File Description	Document
Institutional data in the prescribed format	View Document
Final admission list indicating the category as published by the HEI and endorsed by the competent authority.	View Document
Copy of communication issued by state govt. or Central Government indicating the reserved categories(SC,ST,OBC,Divyangjan,etc.) to be considered as per the state rule (Translated copy in English to be provided as applicable)	View Document

2.2 Student Teacher Ratio

2.2.1

**Student – Full time Teacher Ratio
(Data for the latest completed academic year)**

Response: 18.45

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 and teachers use ICT- enabled tools including online resources for effective teaching and learning process

Response:

- Institute has collaborated with different Foreign Universities and signed MOUs to provide a platform for internship, training, expert sessions etc. to the students.
- Institute has signed MOU with Industries for activities like Internships, Industrial visits, Industrial Projects etc.
- Seminars, webinars, workshops and expert lectures are organized at departmental level for the students.
- Students are participating in various NSS activities to contribute towards the societal needs by using their knowledge and skills.
- Institute has active professional student chapters wherein the students are getting an opportunities for networking, mentoring and bonding over common interests.
- Entrepreneurship Development Cell arranges interactions with successful entrepreneurs through guest lectures, seminars and visits.
- Institute is well equipped with different ICT tools and has integrated educational apps, online tools and websites in order to carry out the teaching learning process.
- Different online tools like Google Classroom, Blogs, slideshow, YouTube videos are used by the teachers to provide appropriate information to enrich the students learning experience.
- During the pandemic institute effectively carried out teaching learning process using online platforms like Google Meet, Zoom, and Microsoft Teams etc.
- Institute has developed Learning Management System (LMS) which helped the students for online learning from anywhere during the pandemic. Teachers developed E contents using webcams, headphones and speakers and uploaded on LMS.
- Institute has provided quality infrastructure including classrooms with projectors, internet connection, well equipped laboratories, and workshop and seminar halls.

Participative learning

- Institute always put the empowerment of students in a preeminent place by encouraging them to participate in competitions like Smart India Hackathon, AICTE Chhatra Vishwakarma Awards, KPIT Sprakle etc.
- Departmental students associations are arraigning activities and events that inculcate participatory skills among the students.
- Student Clubs like coding club, sports club, and Nature club provide an environment of participative learning to the students for their progress.
- Specialized training sessions on Soft skill, communication skill and Life skills are arranged by Training and placement Cell for overall personality development of the students.
- Activity-based learning, Quiz competitions, game pedagogy, role-playing, group discussions are included for fostering interactive learning among the students.
- Students enroll and complete the MOOC courses, NPTEL, Coursera, and Infosys Springboard.
- Value Added Programs certification courses are introduced for improving employability skills of the students.
- Students participate and organize various cultural and technical events in teams every year.

Problem-solving

- Institute encourages the students for doing their project work based on Project based Learning approach in order to deal with industrial, societal, and environmental problems.
- Institute supports the students for participation in completions like SAE BAHA, KPIT Sparkle etc.
- Institution's Innovation Council (IIC) promotes innovation in the Institution via innumerable modes.
- An Incubation center under Sandip TBI has stimulated students to come up with startups ideas.
- Under GIZ NIMA Scheme, students and faculty mentors worked together and provided problem solutions to nearby industries.
- Under the IPR cell patents and copyrights are registered and granted to the students and faculty.

Center of Excellence are active at department level for project development and problem solving by the students.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

2.4 Teacher Profile and Quality

2.4.1

Percentage of full-time teachers against sanctioned posts during the last five years

Response: 100

2.4.1.1 Number of sanctioned posts year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
82	88	97	106	116

File Description	Document
Sanction letters indicating number of posts sanctioned by the competent authority (including Management sanctioned posts)	View Document

2.4.2

Percentage of full time teachers with NET/SET/SLET/ Ph. D./D.Sc. / D.Litt./L.L.D. during the last five years (consider only highest degree for count)

Response: 16.97

2.4.2.1 Number of full time teachers with NET/SET/SLET/Ph. D./ D.Sc. / D.Litt./L.L.D year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
16	13	11	21	22

File Description	Document
List of faculties having Ph. D. / D.Sc. / D.Litt./ L.L.D along with particulars of degree awarding university, subject and the year of award per academic year.	View Document
Institution data in the prescribed format	View Document
Copies of Ph.D./D.Sc / D.Litt./ L.L.D awarded by UGC recognized universities	View Document

2.5 Evaluation Process and Reforms

2.5.1

Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient

Response:

The assessment is an important step in calculating learning outcome of students. The Institute is affiliated with **Savitribai Phule Pune University (SPPU)** and follows to the Examination Scheme of SPPU. SPPU Examination Scheme includes in-semester, end-semester, term work and oral/practical examinations.

Internal Assessment is done by Unit Test, Term Work and Assignments. External Assessment is carried out by University theory exam, Oral Practical, Seminar, Project examinations.

Internal Assessment:

The internal assessment process is carried out transparently for internal evaluation of unit tests, laboratory term work and assignments. The internal assessment mechanism is robust and transparent.

Assessment tools are selected based on the structure and syllabus prescribed by the University and discussed with subject teachers and communicated to the students. The evaluation process is well defined, based on the rubrics for internal assessment and communicated to students well in advance during orientation program. Students are solving various assignments as the part of term work. The schedule of Unit Test is included in academic calendar and communicated to student at the time of commencement of semester. After evaluation of unit test answer sheets are shown to the students and marks obtained are displayed on notice board. If any grievances are raised by the students, are resolved by the subject teacher. Rubrics are defined for the assessment of term work and informed to students at the beginning of the semester. Continuous assessment of term work is carried out as per the rubrics framed. Term work marks are shown to the students during continuous assessment and at the end of the semester. Any grievances in internal assessment are addressed by the subject teacher.

External Assessment: End semester examination is conducted by the university. The review of the projects of the final year students are taken in each month. Rubrics are framed to evaluate the project in two stages i.e. stage I at the end of seventh semester and stage II at the end of eighth semester.

Redressal of grievances

- University has developed grievance redressal system in the examination section for timely and efficient resolution of grievances. The Institute appoints a College Examination Officer for the smooth conduction of examinations.
- If students are facing any problems, they are solved by the College Examination Officer. The grievances during the conduction of online/theory examinations are considered and discussed in consultation with the Principal. If needed, they are forwarded to the university by the examination section.
- After the declaration of university results, if students have grievances, then students can apply for photocopy and revaluation and/or rechecking of the answer book through examination section of the institute by paying the necessary processing fees to the university.
- The University schedule of application for photocopy and revaluation is informed by examination section to the students after the declaration of university examination results.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

2.6 Student Performance and Learning Outcomes

2.6.1

Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website

Response:

With the objectives of Outcome Based Education (OBE), the Program Outcomes (POs), Program Specific Outcomes (PSOs), and Course Outcomes (COs) are stated by the department offering the concerned program.

- The institute is affiliated to Savitribai Phule Pune University (SPPU), Pune and approved by All India Council of Technical Education (AICTE), New Delhi. So it follows the guiding principles of the SPPU and AICTE. According to that, each department follows the twelve program outcomes (POs) as stated in AICTE Examination Reform policies. POs give useful guidance at the program level for the curriculum delivery and assessment of student learning. The POs signifies the graduate attributes (GA) or abilities of the students of that program expected at the time of graduation.
- The Institute encourages all faculty members to attend the Outcome Based Education (OBE) Workshops and Faculty Development Programs.
- The Course Outcomes (Cos) for the course are provided by the affiliated university which are the learning outcomes that the students absorb at completion of each course. CO statements are framed using unit-specific course materials from the course syllabus. Course Outcomes describe expected learning outcomes for each course (COs). COs are mapped with POs and PSOs.
- The Program Educational Objectives (PEOs) are framed by each department which describes the expected accomplishments of graduates after completion of program. The addressees for objective statements are external constituents such as prospective students, employers, transfer institutions and student sponsors.
- The dissemination of these POs and PEOs to the teachers, students and various stakeholders is done through the Institute website, banners and through various value-added courses, workshops, seminars, and induction programmes. They are published at various places like the entrance of the department, office of the head of the department, staff room, etc.
- The CO's for each subject along with PO's are shared with the students during orientation lectures. At the commencement of the course, course in-charge communicates the Program Outcomes and Course outcomes during the theory and practical sessions. POs and COs are displayed on notice boards in every laboratory.
- The Program Outcomes and Course Outcomes are included in the course file for the reference. COs are available on the institute's website and department webpage.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

2.6.2

Attainment of POs and COs are evaluated.

Explain with evidence in a maximum of 500 words

Response:

Outcome based education (OBE) is now inevitable for education. The Program Outcomes (POs) and Course Outcomes (COs) are defined as per the guidelines of the National Board of Accreditation (NBA).

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

a. Measuring course outcomes attained through Internal Assessment This includes the performance of the student throughout the semester based on Theory/ Practical attendance, regular test exams, assignments, continuous assessment, Term work, etc.

b. Measuring course outcomes attained through University Examinations. The method calculates the course attainment based on the university examination results.

The attainment levels for courses are finalized based on previous results/performances. First, the threshold levels are decided for various courses. The measurement of attainment is based on the actual percentage of students achieving the threshold percentage of marks or more.

1. If the percentage of student is between < 40 , then the attainment level is 1.

2. If the percentage of student is between 50 - 60, then the attainment level is 2.

3. If the percentage of student is above > 60 , then the attainment level is 3.

Final CO attainment is computed by 80% of weightage to university and internal evaluation while 20% is given to student's course exit survey. The correlation of POs and PSOs with COs is decided by the subject teachers considering direct attainment and indirect attainment. The computation of direct attainment is from CO attainment (80% weight-age) whereas indirect attainment is based on stakeholder's feedback (20%). For mapping COs with POs and PSOs the correlation Level 1 means slight (low); 2 means moderate (medium) & 3 means substantial (high).

File Description	Document
Upload Additional information	View Document

2.6.3

Pass percentage of Students during last five years (excluding backlog students)

Response: 90.17

2.6.3.1 Number of final year students who passed the university examination year wise during the

last five years

2022-23	2021-22	2020-21	2019-20	2018-19
266	553	741	661	604

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

2022-23	2021-22	2020-21	2019-20	2018-19
454	594	746	688	651

File Description	Document
Institutional data in the prescribed format	View Document
Certified report from Controller Examination of the affiliating university indicating pass percentage of students of the final year (final semester) eligible for the degree programwise / year-wise.	View Document
Annual report of controller of Examinations(COE) highlighting the pass percentage of final year students	View Document

2.7 Student Satisfaction Survey

2.7.1

Online student satisfaction survey regarding teaching learning process

Response: 3.74

File Description	Document
Upload database of all students on roll as per 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 in the institution during the last five years (INR in Lakhs)

Response: 25.45

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

2022-23	2021-22	2020-21	2019-20	2018-19
1.24610	10.0407	2.35867	4.5288	7.27692

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

3.2 Innovation Ecosystem

3.2.1

Institution has created an ecosystem for innovations, Indian Knowledge System (IKS), including awareness about IPR, establishment of IPR cell, Incubation centre and other initiatives for the creation and transfer of knowledge/technology and the outcomes of the same are evident

Response:

The institute has Research and Consultancy Policy to create an ambience in which new ideas, research and scholarship flourish and from which the leaders and innovators of tomorrow emerge.

As per Research Policy, faculty and students are encouraged and provided with financial support for research publications. The Institute motivates the faculty and students for submitting proposals to various agencies like DST, SERB, UGC, CSIR, DRDO, ISRO, DBT, AICTE etc. The outcome of this is that the institute received grants from UoP ISRO, GIZ- NIMA and AICTE.

The Institute encourages and provides financial support for participation in various National Level Competitions like SAE BAJA, Smart India Hackathon, Chattra Vishwakarma Awards and Avishkar Competition. Our Students brought laurels to the Institute in such National level competitions and events.

The institute recognizes the importance of innovations. The Intellectual Property [IP] policy is designed to identify, protect and leverage the bouquet of IPs. The institute encourages in filing patents and as an outcome of this till date 102 patents are filed, 95 patent applications have been published and 10 patent applications are granted by Patent Office, Government of India.

The institute has formed, Institution Innovation Council as per the guidelines of the Ministry of Education (MoE). Under this cell the various activities related to innovation and entrepreneurship development are conducted for the benefits of the students.

The Entrepreneurship Development Cell (EDC) of the institute is actively engaged for creating awareness and support and facilitates for nurturing the startups through prototype support, Incubation, financial support and IPR. Institute works collaboratively with Idea Lab, YI-CII and SANDIP TBI in order to support businesses and innovators. EDC organizes different activities like workshops, seminars, industrial visits and expert sessions. “E-Hydra” is registered with SANDIP TBI incubation centre as a startup Pre Incubatee having Registration Number STBPI-20222304.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

3.2.2

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

Response: 31

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

2022-23	2021-22	2020-21	2019-20	2018-19
9	7	4	7	4

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

3.3 Research Publications and Awards

3.3.1

Number of research papers published per teacher in the Journals notified on UGC care list during the last five years

Response: 0.67

3.3.1.1 Number of research papers in the Journals notified on UGC CARE list year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
26	39	32	24	42

File Description	Document
Link to the uploaded papers, the first page/full paper(with author and affiliation details)on the institutional website	View Document
Link to re-directing to journal source-cite website in case of digital journals	View Document
Links to the papers published in journals listed in UGC CARE list or	View Document
Institutional data in the prescribed format	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

3.3.2

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: 2.64

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

2022-23	2021-22	2020-21	2019-20	2018-19
06	428	55	44	109

File Description	Document
List of chapter/book along with the links redirecting to the source website	View Document
Institutional data in the prescribed format	View Document
Copy of the Cover page, content page and first page of the publication indicating ISBN number and year of publication for books/chapters	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

3.4 Extension Activities

3.4.1

Outcomes of Extension activities in the neighborhood community in terms of impact and sensitizing the students to social issues for their holistic development during the last five years.

Response:

The institute actively participates in various extension activities related to the society and tries to address the social issues for inclusive holistic development of the students.

Institute runs the National Service Scheme (NSS) in association with Savitribai Phule Pune University(SPPU). The NSS cell has been established in the institute to nurture social and civil responsibility amongst the students. Under the NSS cell different activities like tree plantation, blood donation camps, cleanliness drives, health awareness camps, and Road safety drives are conducted every year.

During the pandemic, the Institute organized a vaccination camp for all the employees and students. NSS conducted clothes distribution and mask distribution activity for the needy people.

Along with this the Ganesh Festival is celebrated every year by the institute. During this festival, green environment awareness activities like ‘Shadu Mati Murti workshop’ and ‘Ganesh Murti Sankalan’ are conducted.

Special initiatives are taken by the institute for creating awareness about the impact of the drugs by conducting a seminar on anti-narcotics in association with local police station.

Activity proposed by the Central Government of India and directed through Savitribai Phule Pune University i.e, “Survey of youth not in formal education or regular employment “was conducted and the report of the survey was submitted to Savitribai Phule Pune University by NSS.

The institute in association with Primary Health Centre (PHC) conducted a Health Checkup camp to create awareness about AIDS on occasion of World AIDS. This activity is supported with AIDS Test

Kits by the PHC.

The NSS Unit of the institute has adopted a village and a special NSS camp is organized every year with active participation of the students and staff members. Various social issues are addressed under the camp by conducting activities like importance of hygiene via cleanliness drive. Rallies are conducted in the village to create awareness on Saksharta and Vyasana-mukti.

Separate program is conducted for women about personal Hygiene and health. Girls from the institute distributed sanitary pads to the women of the village.

The mentioned activities have brought significant change in the adopted village terms of hygiene, literacy and personal health and active participation has been observed by the villagers.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

3.4.2

Awards and recognitions received for extension activities from government / government recognised bodies

Response:

The institute actively participates in various extension activities related to the welfare and contentment of the commonalities. The activities conducted by the institute has been recognized and appreciated by the different government/government recognized bodies. A summary of awards and recognitions received for extension activities from government/government recognized bodies is as follows:

Grampanchayat Nanashi(Dindori), Jategaon, Belgaon Dhaga and Mahiravani have appreciated the institute for exceptional work in NSS activities.

NSS Group of the Institute is awarded by Janshri Social Foundation, Nashik for actively participating in the Cloth Donation drive. Students of the institute have contributed to the Government of Maharashtra for Chief Minister's Distress Relief Fund.

Institute has been recognized by different blood banks like Arpan Blood Bank, Dr, Vasantao Pawar Medical College Hospital and Research Centre, Nashik and Jankalyan Blood Bank for regularly organizing blood donation camps. The institute is also recognized by Ramole Eye Hospital, Shriram Eye Checkup Clinic for organizing Eye Checkup Camp as a social work activity for the benefit of society.

Every year the institute gets special appreciation form Nashik Municipal Corporation for active participation in Ganesh Idol Collection.

The institution is recognized by Hirvankur Foundation for organizing tree plantation under their Green initiative on occasion of “ World Environment Day “.

The Institution of Engineering and Technology (IET) as awarded with funds to the institute for conducting events on occasion of International women’s day and Engineer’s day.

Institute has been recognized for establishment of Institution Innovation Council (IIC) as per the Norms of Innovation Cell, Ministry of HRD, Govt. of India by AICTE and MIC.

The department of Mechanical Engineering was awarded Reverse Engineering project on Electric Vehicle by Wasan Brothers Private Limited, Nashik and received Consultancy worth Rs. 72763/- for Go Green Initiative.

The project entitled Water Purification System of team Technogenesis from Mechanical Engineering department awarded with Runner up prize worth Rs.75,000/- at the Smart India Hackathon 2022 Hardware Edition Grand Finale held at Indian Institute of Technology Roorkee for Problem statement SM990 under AICTE, MIC-Student innovation. The said project is beneficial in tribal belt for generating pure drinking water without electricity.

The institute was recognized and awarded with second runners up prize at “National Convention” of 2nd AICTE-ECI-ISTE “ Chhatra Vishwakarma Awards – 2018” held on 20-21 Jan 2019 at All India Council of Technical Education (AICTE) New Delhi for the project entitled Garbage Collection System. The team presented an innovative solution and prototype under the Theme of Empowerment of Villages through Technologies”.

Dr. Anil Dube has been awarded for his initiative in promoting sustainability for achieving United Nations SDGs .

On the occasion of International Women’s day, Dr. Kamini Shirsath was honored with “KRANTIJIYOTI” Award by Ahire Competitive Exams and Star News at Rotary Hall on 12th March 2022 for her contribution towards women empowerment.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

3.4.3

Number of extension and outreach programs conducted by the institution through organized forums including NSS/NCC with involvement of community during the last five years.

Response: 37

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

last five years

2022-23	2021-22	2020-21	2019-20	2018-19
10	05	04	09	09

File Description	Document
Photographs and any other supporting document of relevance should have proper captions and dates.	View Document
Institutional data in the prescribed format	View Document
Detailed report for each extension and outreach program to be made available, with specific mention of number of students participated and the details of the collaborating agency	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

3.5 Collaboration

3.5.1

Number of functional MoUs/linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years.

Response: 45

File Description	Document
Summary of the functional MoUs/linkage/collaboration indicating start date, end date, nature of collaboration etc.	View Document
List of year wise activities and exchange should be provided	View Document
List and Copies of documents indicating the functional MoUs/linkage/collaborations activity-wise and year-wise	View Document
Institutional data in the prescribed format	View Document

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1

The Institution has adequate infrastructure and other facilities for,

- **teaching – learning, viz., classrooms, laboratories, computing equipment etc**
- **ICT – enabled facilities such as smart class, LMS etc.**

Facilities for Cultural and sports activities, yoga centre, games (indoor and outdoor), Gymnasium, auditorium etc (Describe the adequacy of facilities in maximum of 500 words.)

Response:

Institute has adequate infrastructure which meets the needs of all the stakeholders in the institute. Institute fulfills the norms of the statutory bodies for instructional area, administrative area, amenities area and circulation areas.

Details are as follows:

- Classrooms: Institute has 32 class rooms of total area 3254.46 sq.m.
- Tutorial rooms: Institute has 08 numbers of tutorial rooms with 440.50 sq. m.
- Laboratories: Institute has 68 well equipped Laboratories with total area of 6164.98 sq.m.
- Drawing Hall: Two drawing halls are available with total area 278 sq.m.
- Workshop: Institute has a workshop of area 1015 sq.m.
- Seminar hall: Institute has 3 Seminar halls of total area 684.61 sq.m.
- Computer Centre: Institute has a computer Centre of area 290 sq.m which is equipped with 46 computers.
- Library and Reading room: Institute has a Library and Reading room of area 757 sq.m.
- Institute adopted modern audio-visual teaching learning aids with installation of LCD Projectors and speakers in class rooms.
- Institute has well equipped laboratories to perform practical and demonstrations to enhance Teaching learning process.

- Institute has a sufficient number of books in the central library with the OPAC system, which helps to search the status of the book. Adequate volumes and titles of books per discipline are available.
- Institute provides digital library to get access to e-books, e-journals and e- learning resources.
- Adequate number of computer laboratories with computing facilities like PCs, printers, scanners, LAN connection/ Wi-Fi etc. is available in each department of the Institute.
- Network facilities are available to enhance e-resources like virtual labs, NPTEL, Swayam portal etc.
- Institute has shared playgrounds of 28275 sq.m for outdoor games. First playground was established in 2011-12 and second playground in 2014-15 for all types of sports activities and competitions at various levels.
- Institute has facilities for indoor games such as chess, carom, and table-tennis etc.
- Indoor gymnasium with adequate equipment and accessories is available.
- Green gymnasium is available in hostel premises.
- Institution has a dedicated Yoga and Meditation center.
- Adequate sports equipments are available in the sports room.
- Amphitheatre is available in campus for conducting cultural activities.
- Several cultural activities are also carried out in seminar halls and open space of the institution.
- Separate boy's and girl's common room are available along with a medical center.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

4.1.2

Percentage of expenditure for infrastructure development and augmentation excluding salary during the last five years

Response: 26.66

4.1.2.1 Expenditure for infrastructure development and augmentation, excluding salary year wise during last five years (INR in lakhs)

2022-23	2021-22	2020-21	2019-20	2018-19
224.38	166.20	137.49	126.51	229.25

File Description	Document
Institutional data in the prescribed format	View Document
Audited income and expenditure statement of the institution to be signed by CA for and counter signed by the competent authority (relevant expenditure claimed for infrastructure augmentation should be clearly highlighted)	View Document

4.2 Library as a Learning Resource

4.2.1

Library is automated with digital facilities using Integrated Library Management System (ILMS), adequate subscriptions to e-resources and journals are made. The library is optimally used by the faculty and students

Response:

Library is the soul of the Institute, Sandip Institute of Engineering and Management (SIEM), Nashik Central Library is established in 2010. SIEM Central Library situated on second floor having 757 sq.mt. Area with reading room capacity for 180 students. Library has versatile books collection offering thousands of books for various branches of engineering, these include handbooks, dictionaries, standard reference books, quality textbooks and reputed journals and magazines (National and International). The services and operations in the central library are fully computerized. The library is automated with integrated library management software “KOHA” and the entire database has been created using “KOHA”. The database is accessible through OPAC (Online Public Access Catalogue). Circulation services are executed through Bar code system. The central library supports the teaching and research programs of the Institute and provides facilities for general reading and disseminates information according to the requirement of the users.

The SIEM Library system consists of a central library and departmental libraries which collectively support the teaching, research and extension programs of the Institutes. The Library, besides having a huge collection of books on engineering, science and humanities offers library services through its various divisions. Library caters to the need of the faculty and students via a rich collection of more than 22495 books, 1747 CD's, 350 back volumes of the periodicals. It also provides an access to the 46 national / international periodicals, journals, and magazines and 10 newspapers. All students, faculty members and employees of the Institutes are entitled to make use of the Library facilities after taking library membership. Central library also Provide reprography facility Photocopying, Scanning services to the students.

Digital Library:

The Digital Library is an additional facility for the benefit of the students and faculty. Digital Library has 12 computers with high speed internet connection to access the digital content like NPTEL Video Lectures, E- Journals, E-Books and Project reports, Digital Notes, PPTs and Course Material Files.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

4.3 IT Infrastructure

4.3.1

Institution frequently updates its IT facilities and provides sufficient bandwidth for internet connection

Describe IT facilities including Wi-Fi with date and nature of updation, available internet bandwidth within a maximum of 500 words

Response:

To meet the AICTE and University norms, the institute has very strong IT infrastructure. The institute is equipped with an adequate IT infrastructure including computers, software, internet connectivity etc. All the classrooms are equipped with LCD projectors and supported by audio / visual systems. The entire campus is monitored by CCTV cameras installed at strategic locations. Various software are available as per the requirements of different programs. The institute has internet leased line connectivity. Institute always keeps track of changing technology and the change or addition of the infrastructure is made available accordingly. Wi-Fi connectivity is also provided by the institute. Dedicated system analyst is appointed for providing support and different maintenance services. Communication services like intercom, LAN network is also available in the institute which is regularly updated and maintained. Most of the computers are equipped with antivirus software Quick heal. The server is provided for the smooth operation of various activities such as online exams, webinars, online workshops, virtual labs, and so on. Institute also uses open source operating systems like Linux/Ubuntu etc. Cyberoam firewall is used to

provide access and authority to users.

File Description	Document
Upload Additional information	View Document

4.3.2

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

Response: 2.72

4.3.2.1 Number of computers available for students usage during the latest completed academic year:

Response: 557

File Description	Document
Purchased Bills/Copies highlighting the number of computers purchased	View Document
Extracts stock register/ highlighting the computers issued to respective departments for student's usage.	View Document

4.4 Maintenance of Campus Infrastructure

4.4.1

Percentage expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, during the last five years (INR in Lakhs)

Response: 27.67

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)

2022-23	2021-22	2020-21	2019-20	2018-19
223.30	296.30	175.60	112.45	109.78

File Description	Document
Institutional data in the prescribed format	View Document
Audited income and expenditure statement of the institution to be signed by CA for and counter signed by the competent authority (relevant expenditure claimed for maintenance of infrastructure should be clearly highlighted)	View Document

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1

Percentage of students benefited by scholarships and freeships provided by the institution, government and non-government bodies, industries, individuals, philanthropists during the last five years

Response: 84.31

5.1.1.1 Number of students benefited by scholarships and freeships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
1334	1532	1687	1559	1770

File Description

Document

Year-wise list of beneficiary students in each scheme duly signed by the competent authority.

[View Document](#)

Upload Sanction letter of scholarship and free ships (along with English translated version if it is in regional language).

[View Document](#)

Upload policy document of the HEI for award of scholarship and freeships.

[View Document](#)

Institutional data in the prescribed format

[View Document](#)

Provide Links for any other relevant document to support the claim (if any)

[View Document](#)

5.1.2

Following capacity development and skills enhancement activities are organised for improving students' capability

- 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
Report with photographs on Programmes /activities conducted to enhance soft skills, Language and communication skills, and Life skills (Yoga, physical fitness, health and hygiene, self-employment and entrepreneurial skills)	View Document
Report with photographs on ICT/computing skills enhancement programs	View Document
Institutional data in the prescribed format	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

5.1.3

Percentage of students benefitted by guidance for competitive examinations and career counseling offered by the Institution during the last five years

Response: 64.65

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

2022-23	2021-22	2020-21	2019-20	2018-19
1430	1715	478	1659	762

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.1.4

The institution adopts the following for 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: B. 3 of the above

File Description	Document
Proof w.r.t Organisation wide awareness and undertakings on policies with zero tolerance	View Document
Proof related to Mechanisms for submission of online/offline students' grievances	View Document
Proof for Implementation of guidelines of statutory/regulatory bodies	View Document
Details of statutory/regulatory Committees (to be notified in institutional website also)	View Document
Annual report of the committee motioning the activities and number of grievances redressed to prove timely redressal of the grievances	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

5.2 Student Progression

5.2.1

Percentage of placement of outgoing students and students progressing to higher education during the last five years

Response: 64.25

5.2.1.1 Number of outgoing students placed and / or progressed to higher education year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
186	415	441	410	363

5.2.1.2 Number of outgoing students year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
266	553	741	661	604

File Description	Document
Number and List of students placed along with placement details such as name of the company, compensation, etc and links to Placement order(the above list should be available on institutional website)	View Document
List of students progressing for Higher Education, with details of program and institution that they are/have enrolled along with links to proof of continuation in higher education.(the above list should be available on institutional website)	View Document
Institutional data in the prescribed format	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

5.2.2

Percentage of students qualifying in state/national/ international level examinations during the last five years

Response: 3.96

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

2022-23	2021-22	2020-21	2019-20	2018-19
15	15	04	02	04

File Description	Document
List of students qualified year wise under each category and links to Qualifying Certificates of the students taking the examination	View Document
Institutional data in the prescribed format	View Document

5.3 Student Participation and Activities

5.3.1

Number of awards/medals for outstanding performance in sports/ cultural activities at University /

state/ national / international level (award for a team event should be counted as one) during the last five years

Response: 10

5.3.1.1 Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one) year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
2	3	4	1	0

File Description	Document
Upload supporting document	View Document
list and links to e-copies of award letters and certificates	View Document
Institutional data in the prescribed format	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

5.3.2

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

Response: 5.4

5.3.2.1 Number of sports and cultural programs in which students of the Institution participated year wise during last five years

2022-23	2021-22	2020-21	2019-20	2018-19
09	06	02	05	05

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	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:

Institute is having registered alumni association under the society's registration Act 1860. It was formed in 2017 having registration number MAHA/843/NA.

The motto of alumni Association is STAY CONNECTED with alumni through 4Cs i.e. Connect, Conversation, Collect and Create. Alumni Association consists of office bearers like President, a Vice-President, a Secretary, Treasurer and 5 alumni members. The Alumni Association provides an interface for establishing a link between alumni, staff, and current students of the institute. SIEM alumni are currently working at various positions all over the globe and proving their mettle in all spheres of management.

The contribution of Alumni Association in the development of the institute is as follows:

- **Alumni Interaction:** Institutes invites the alumni for having an interaction with the current students. Via this activity the Alumni are interacting with the aspiring engineering graduates by means of expert sessions. Some special trainings are also organized at departmental level in association with the relevant organization of the alumni. This activity is beneficial for the students to get updated information on current trends of the market.
- **Placement & Career Guidance Assistance:** Alumni are contributing in placement activity by introducing the company for student's placement at the institute. Training and placement department regularly arranges pre-placement sessions with the help of alumni working in the relevant company. Alumni are also supporting the existing students for their industrial internship and in plant trainings. Alumni also act as mentors for the projects by providing valuable guidance for the projects and also support for industry sponsored projects.
- **Entrepreneurship Awareness:** Assistance is provided by the successful alumni entrepreneurs to the budding entrepreneurs of the institute by proper guidance and motivation.
- **Alumni Meet:** Alumni meet is organized by the institute for reconnecting the alumni Alma mater and old friends. During the meet the Alumni interact with the students, faculties, management and share their thoughts for the inclusive growth of the institute. Alumni feedback helps in planning activities for professional skill development and contributes to the well-being of the Alma Mater. Alumni are actively connected with their departmental associations and contributing the donations in the form of Books and equipment etc.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1

The institutional governance and leadership are in accordance with the vision and mission of the Institution and it is visible in various institutional practices such as NEP implementation, sustained institutional growth, decentralization, participation in the institutional governance and in their short term and long term Institutional Perspective Plan.

Response:

The Institute's distinctive aspects are in line with its vision and mission for empowering the students. The governance structure of the Institute consisted of the Governing Body Council (GC) and College Development Committee (CDC). The Principal, Deans and Head of the Departments (HOD) are instrumental in development and implementation of the policies that align with the Institute's Vision and Mission.

Different institutional practices are carried out and supervised with the assistance of the IQAC, Academic Monitoring Committee, and numerous institutional committees under the aforementioned umbrella of the GC, CDC and the Principal.

Every year meetings between the CDC and Governing Body are held to ensure that policies are effectively implemented to track the enrichment of academic capabilities and to ensure that the Institute is making progress on all of its plans.

The management supports all the activities to facilitate the need of stakeholders for providing quality education and endorses a vision that represents the best thinking about teaching and learning, Research, Entrepreneurship & Promotion to higher studies etc.

The Principal monitors the procedures and plans of each department during routine meetings with the Academic Monitoring Committee to review departmental activities, decisions, policies and plans to improve qualities. Consistent review is taken by the Principal about formation of a student council, Student discipline, Anti-ragging Grievances, and other committees as per norms of statutory bodies.

Dean Academics coordinates with the Head of the departments and academic monitoring committee for effective execution of academic activities. The dean academics creates an academic calendar that summarizes all the co-curricular, extracurricular and curricular events that support the institute's vision and mission.

Dean Research and Development exhibits the ability to establish a Research and Development environment at the Institute.

The Dean Admin leads and executes all the administering activities of the institute within the policy framework developed by the management.

The HOD leads, manages and develops the department to ensure the standards of excellence in all its

activities as prescribed by the policies of the management. The Head also creates an ecosystem for learning opportunities and the use of open educational resources and other technologies for Institute students.

The Training and Placement Officer works with departmental training and placement coordinators for students training in specialized area and placements in line with the needs of the industry.

The Alumni Coordinator develops and implements an Alumni Relations strategy, while the Industry Institute Interaction coordinator establishes and nurtures industry relationships.

The Entrepreneurship Development Cell and Incubation cell maintains an effective coordination with the students for identification and development of their innovative and entrepreneurial ideas.

The IQAC monitors execution of various activities in a timely manner, ensures proper documentations and preserves the information for future reference to demonstrate good governance that is in line with the institute's vision and mission.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

6.2 Strategy Development and Deployment

6.2.1

The institutional perspective plan is effectively deployed and functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment, service rules, and procedures, etc

Response:

The institution's organizational structure is clearly established for the effective functioning of the Institute. This shows the orderly flow of information, instructions, and document movement for different operations. It guarantees prompt assignment completion and report submission to various organizations like AICTE, DTE, etc. The organizational structure/organogram displayed on the website demonstrates the suitable administrative setup and provides the appropriate visibility to the stakeholders who are visiting regarding who should be contacted.

The institute has clearly stated service norms, including hiring and advancement guidelines for both teaching and non-teaching staff members. The Institute follows the guidelines of all the regulating and statutory bodies for recruitment. Policies like time office management, leave regulations, increment and promotion rules, etc. are established and followed for a successful execution.

Management offers leadership and administration for the development and implementation of academic,

co-curricular, and extracurricular activities in order to satisfy socioeconomic situation and necessary technical skills. To provide "decentralized administration," the principal and authorities essentially organize distinct committees. In order to provide a hassle-free environment for the institution's general administration, the institute has adopted e-governance.

The strategic plan for 2020-25 consist of following points:

1. Faculty Development
2. Research & Innovation
3. Entrepreneurship
4. Infrastructure Development
5. Student Development
6. Placement
7. Admission
8. Industry Interaction
9. Community Development

Institute recruited the faculty as per the norms and faculty members are encouraged to participate in research and consultancy activities. The outcome of this process resulted in quality publications, patents and participation in FDP, STTPS, conference etc. Good quality e-learning resources are developed by the faculties to enhance the excellence and standards of education. Along with them, the institute regularly conducts courses that are practice-oriented, uses skill-based learning, and effectively utilizes e-learning platforms.

To strengthen the research culture, the Institute has dedicated R&D Cell. The management provides financial support for projects, publications and patents. The institute has active MOUs with different International Universities and organization. Students groups are recognized and awarded at national level competitions like SIH, SAE BAHA and Chatra Vishwakarma Awards etc. Special financial assistance is provided for interdisciplinary projects for conversion of innovative ideas to develop the prototypes and patent filling. Institute has effectively utilized non-conventional energy resources by deploying solar plant and wind station.

Institute has introduced Value added programs, Skill based certifications for overall development of the students. Different Workshops, Seminar, Guest lecture, Industrial visits, Industrial Internship are arranged regularly as per the feedback taken from alumni to make students industry ready. This has resulted significant improvement in overall placements.

File Description	Document
Upload Additional information	View Document
Institutional perspective Plan and deployment documents on the website	View Document
Provide Link for Additional information	View Document

6.2.2

Institution implements e-governance in its operations

- 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 of each module reflecting the name of the HEI	View Document
Institutional expenditure statements for the budget heads of e-governance implementation ERP Document	View Document
Annual e-governance report approved by the Governing Council/ Board of Management/ Syndicate Policy document on e-governance	View Document

6.3 Faculty Empowerment Strategies

6.3.1

The institution has performance appraisal system, effective welfare measures for teaching and non-teaching staff and avenues for career development/progression

Response:

Following are the existing welfare measures.

Employee Provident Fund (EPF)

Gratuity

Loan Facility from the Institute's Cooperative Credit Society.

Lien facility.

Women Empowerment Program.

Maternity leaves for female Teaching & Non-Teaching staff.

Study Leave, Medical leave, etc.

Free Health Check-up camp.

Financial support for up gradation of knowledge through QIP/ conferences/workshops/STTP/Seminars/membership.

Transportation facilities for staff.

Emergency service (Ambulance etc.)

Superannuation Scheme.

Tie up with Hospital.

Institute has a well-defined process for performance appraisal of teaching and non-teaching staff members. The Job Descriptions (JD) are defined for different positions like Professor, Associate Professor and Assistant Professor with different weightages.

General Parameters considered for evaluation under performance appraisal for teaching staff are- Teaching, feedback and Results of the subjects taught, Publications, Participation in FDP/STTP etc., content development, research projects, Consultancy, support to placement, participation in Co-curricular activities Contribution in departmental activities, Qualification up gradation, participation in promotional activities etc.

Annual performance reviews of non-teaching staff members are conducted based on their professional expertise and involvement in organizational development initiatives.

The appraisal form is filled by respective staff and submitted to concern head of the section/department. Head assesses the form of all staff members and assigns the points based on the information provided by an individual. The constituted committee is appointed for verification. The report is submitted to the management with remarks for appropriate actions.

File Description	Document
Upload Additional information	View Document

6.3.2

Percentage of teachers provided with financial support to attend conferences/workshops and

towards membership fee of professional bodies during the last five years

Response: 58.49

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

2022-23	2021-22	2020-21	2019-20	2018-19
44	54	65	57	66

File Description	Document
Policy document on providing financial support to teachers	View Document
Institutional data in the prescribed format	View Document
Copy of letter/s indicating financial assistance to teachers and list of teachers receiving financial support year-wise under each head.	View Document
Audited statement of account highlighting the financial support to teachers to attend conferences / workshops and towards membership fee for professional bodies	View Document

6.3.3

Percentage of teaching and non-teaching staff participating in Faculty development Programmes (FDP), Management Development Programmes (MDPs) professional development /administrative training programs during the last five years

Response: 74.8

6.3.3.1 Total number of teaching and non-teaching staff participating in Faculty development Programmes (FDP), Management Development Programmes (MDPs) professional development /administrative training programs during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
112	110	83	113	131

6.3.3.2 Number of non-teaching staff year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
66	52	17	44	66

File Description	Document
Refresher course/Faculty Orientation or other programmes as per UGC/AICTE stipulated periods, as participated by teachers year-wise.	View Document
Institutional data in the prescribed format	View Document
Copy of the certificates of the program attended by teachers.	View Document
Annual reports highlighting the programmes undertaken by the teachers	View Document

6.4 Financial Management and Resource Mobilization

6.4.1

Institution has strategies for mobilization and optimal utilization of resources and funds from various sources (government/ nongovernment organizations) and it conducts financial audits regularly (internal and external)

Response:

The Institution prepares an annual budget to manage its financial resources effectively. The deficit, if any, is managed through the support of the Parent Society.

The institution maintains & follows a well-planned procedure for the mobilization of money and resources. The process involves several committees of the institution as well as the Department Heads and Accounts office. Institute has created certain specific guidelines for the fund usage and resource utilization. The Institution ensures effective and optimal utilization of finances for academic, administrative, and development purposes.

Sources of funds are as follows:

Fees: Fees from students are charged as per the approval for the fees from Fees Regulating Authority.

Govt./ Non Govt. / Other Grants: Certain portion of fees in terms of Scholarship received from Government, also grants received from ISRO, AICTE, BCUD SPPU, Pune etc.

The Institution follows a well-defined process for budgeting and resource allocation. At the start of each financial year, every department / section submits a budget request for approval of

management.

The department budget consists of the amount required for Lab Equipments, Consumables, Repair and Maintenance, expenses for faculty participation in seminar/workshop/conference, industrial visit, Guest/Expert Lectures, stationary etc. The department heads prepares budget reports based on requirements raised by individual coordinators/ in charges. The departmental budget is submitted to the account section.

The account section prepares the final budget by adding all the contingencies and submits to the Principal. The Principal submits the overall budget to the management for consideration and necessary approval. Special considerations are made to accommodate unpredicted requirements. Budgetary controls are exercised by Principal and accounts. Sanctioned budget copy is sent to the Principal, HOD's, account section and Central Purchase Committee (CPC).

Requirement note with detail technical and non-technical specification is prepared by the concerned faculty of the department, which is signed by the HOD, Principal & then approved by the academic facilitator.

A sufficient budget is allocated for infrastructural development, maintenance and up gradation, including civil and support infra, housekeeping and other expenses. Regular budget review meetings are conducted to effectively utilize allocated funds. Audits are conducted on regular basis for effective resource mobilization.

The collected fund is deposited in the bank and all expenses are carried out through the bank transaction process. The approved copy of the requirement is sent to the CPC.CPC then processes the procurement by the well-defined SOP.

File Description	Document
Upload 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. It reviews teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals and records the incremental improvement in various activities

Response:

SIEM's, Internal Quality Assurance Cell (IQAC) carries out activities that incorporate planning and implementation of quality assurance strategies related to Academics and other student-centric activities, Research and development, Extension and outreach activities, Administrative and other support services.

With the vision to construct, sustain and enhance the quality in every aspect related to Institution's operation in the above-mentioned domains, the IQAC has set up the strategic plans and processes. IQAC has been engaged actively in -

Academic Activities:

- The IQAC has Conducts regular meetings to plan various activities and has set up systematic process for the departmental academic audit to ensure timely, efficient and progressive performance of academic processes.
- IQAC monitors and review the teaching learning process and learning outcomes regularly.
- The IQAC has been carrying out improvement in quality of teaching learning by feedback mechanism. Feedback is collected from all stake holders, analyses and provided for improvement in the Academic and Administrative processes.
- The IQAC has taken several pedagogical initiatives in course content delivery by teachers. Along with traditional teaching methods like chalk and board subject teacher follows various innovative teaching-learning methodologies including ICT based tools, Presentations, Self-prepared Videos, Google Classroom, NPTEL videos to enhance students' learning experience.
- Faculty members are encouraged for participation in STTP/FDP to become aware and gain knowledge of recent trends and technologies

Student Centric Activities:

- IQAC taken initiative in developing e-contents of all courses and uploaded on LMS for students to learn from anywhere during pandemic.
- Industrial Projects, Internship, Industrial visits/Field Visits are organized to bridge gap between industry and institute.
- Value addition Programs, Seminars and workshops are organized for students.
- Students association and chapters of professional bodies organise technical and cultural events for students
- Students are encouraged for participation in various competitions like SAE Baha, KPIT Sparkle, Avihskar, Chhatra Vishwakarma etc.
- IQAC is motivating students to enrol and earn certificates of NPTEL, Coursera, Infosys Springboard etc.

Research and Development:

- The IQAC has an active IPR cell in the Institution to provide platform to faculty and students for filing the patents, copyrights every year.
- The IQAC has set up an Incubation Centre under Research and Development cell to support and encourage start-up ideas of students.
- The IQAC encourages faculty and students to publish papers in reputed International/National Journals.
- The IQAC has taken initiative in organizing International and National Conferences in the last five years in the Institute.

Extension and Outreach Activities:

- IQAC carries our extension and outreach activities through NSS Cell. NSS has conducted several activities to contribute to society and environment.
- IQAC has set up several student clubs in the Institute which actively organizes various events for social impact.

Administrative Activities:

- The IQAC has Conducts regular meetings to plan various activities. set up various committees in the Institute like anti-ragging committees, Internal Complaint Committee, Minority Cell to smooth functioning of the Institute
- The IQAC promotes and motivates collaboration with Foreign Universities, Organizations, Industries, and Funding agencies.
- The Institute IQAC prepares, evaluates and recommends Annual Quality Assurance Report (AQAR), Self-Study Reports of various accreditation bodies (NAAC, NIRF,ARIIA, CII), Stakeholder’s feedback, AAA Audit, Action Taken Reports.
- IQAC organizes various seminars, expert talks for faculty members to spread awareness about Accreditation and Assessment process amid them.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

6.5.2

Quality assurance initiatives of the institution include:

- 1.Regular meeting of Internal Quality Assurance Cell (IQAC); quality improvement initiatives identified and implemented**
- 2.Academic and Administrative Audit (AAA) and follow-up action taken**
- 3.Collaborative quality initiatives with other institution(s)**
- 4.Participation in NIRF and other recognized rankings**
- 5.Any other quality audit/accreditation recognized by state, national or international agencies such as NAAC, NBA etc.**

Response: B. Any 3 of the above

File Description	Document
Quality audit reports/certificate as applicable and valid for the assessment period.	View Document
NIRF report, AAA report and details on follow up actions	View Document
List of Collaborative quality initiatives with other institution(s) along with brochures and geo-tagged photos with caption and date.	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document
Link to Minute of IQAC meetings, hosted on HEI website	View Document

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1

Institution has initiated the Gender Audit and measures for the promotion of gender equity during the last five years.

Describe the gender equity & sensitization in curricular and co-curricular activities, facilities for women on campus etc., within 500 words

Response:

The Institute is actively initiated various activities for promoting gender equity and sensitivity to create a safe and secure atmosphere in the campus. We adhere to the highest ethical standards in all our activities at our institution. Equal opportunities are provided to all individuals irrespective of gender, religion, caste, language etc.

The goals of implementing such programs are to encourage education that is considerate of the requirements of all genders and different societal groups. In order to achieve this goal, the Institute has kept a fair gender balance among its staff, has a rigorous policy against gender discrimination, and also hosts guest sessions to address the gender-sensitive educational needs of both genders.

Additionally, staff members ensure equal participation and involvement when forming teams and groups in almost all activities. To ensure that students of all genders are given equal opportunities to develop into responsible citizens. The institute has implemented following measures,

- Security and safety: Security cameras (CCTV) are fixed in the institute for 24x7 surveillance. Security checkpoints are established at all entries and exits of campus. Campus security is continuously monitored by trained staff. Identity cards are required to be worn by all students and staff, who are carefully advised to have them visible at all times.

Following Cells and Committees are constituted at the institute for addressing different issues.

- Women Grievance Cell: Women Grievance Cell is formed at Institute level to address the issues or grievances encountered by female faculty members and students. The regular sessions and meetings are conducted to deliberate concerns raised for providing resolutions. Different programs are organized by the cell for promoting gender equality, empowerment, and the protection of women's rights.

- Antiragging Committee: Antiragging Committee exists for avoiding ragging and solving problems. However women professors provide counseling to the girls in the institute. The Committee conducts such complaints investigations and resolutions in accordance with a well-defined process. Additionally, the Institute holds regular meetings to establish strong moral principles and encourage good interactions between male and female counterparts.

- Grievance Cell: Staff and students cells are formed to address the grievances raised by the faculty members and students. The Grievance Redressal Process ensures that faculty members have easy access

to a mechanism for addressing any grievances they may have.

- **Internal Complaint Cell:** This cell is dedicated to maintain an unbiased workplace environment for all the stakeholders.
- **Common Room:** Institute has girls and boy's common room equipped with all appropriate facilities which are required. The girl's common room has a sanitary pad vending machine installed. All the days/ events/festivals of National importance are celebrated at the Institute level to inculcate nationalism and integrity amongst the youths.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

7.1.2

The Institution has facilities and initiatives for

- 1. Alternate sources of energy and energy conservation measures**
- 2. Management of the various types of degradable and nondegradable waste**
- 3. Water conservation**
- 4. Green campus initiatives**
- 5. Disabled-friendly, barrier free environment**

Response: B. 3 of the above

File Description	Document
Policy document on the green campus/plastic free campus.	View Document
Geo-tagged photographs/videos of the facilities.	View Document
Circulars and report of activities for the implementation of the initiatives document	View Document
Bills for the purchase of equipment's for the facilities created under this metric	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

7.1.3

Quality audits on environment and energy regularly undertaken by the Institution. The institutional environment and energy initiatives are confirmed through the following

1. Green audit / Environment audit
2. Energy audit
3. Clean and green campus initiatives
4. Beyond the campus environmental promotion activities

Response: A. All of the above

File Description	Document
Report on Environmental Promotional activities conducted beyond the campus with geo tagged photographs with caption and date	View Document
Policy document on environment and energy usage Certificate from the auditing agency	View Document
Green audit/environmental audit report from recognized bodies	View Document
Certificates of the awards received from recognized agency (if any).	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

7.1.4

Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and Sensitization of students and employees to the constitutional obligations: values, rights, duties and responsibilities of citizens (Within 500 words)

Response:

- Institute provide everyone with a comprehensive environment that is tolerant and harmonious with cultural, regional, linguistic, community socio-economic and other diversity. Various activities organized within the institute to promote the mutual harmony.
- The Institute held a village awareness annual camp in a neighboring village hosted by the Institute's NSS team. Institute actively participates in different agendas such as Swachh Bharat Abhiyan, blood donation camps.
- Conventions, seminars, cultures and rally events take place on anniversaries of great leader and patriotic days.
- A language activity such as poetry writing and debate competition helps to improve student's skills. This establishes positive interactions between people of different racial and cultural backgrounds.
- The annual cultural festival of the institute provides a platform for students to showcase their talent in terms of cultural, regional and social aspects. "Sandipotsav" the cultural festival is celebrated every year to showcase the hidden talent of the students. Sandipotsav consist of various activities which reflects numerous cultures and customs that exist in the community.

- Regardless of a person's location, language, religion, caste, or cultural heritage, The Institute commemorates their birth and death anniversaries. The institute also observes occasions like International Women's Day, Marathi Bhasha Gaurav Din, and Mahatma Gandhi Jayanti etc. to encourage a welcoming atmosphere of harmony and tolerance.
- Separate hostel for Boys and Girls are available in the campus. The students from various backgrounds are encouraged to live together in harmony and peace in the institute's Girls' Hostel.
- The institute rigorously follows all the rules and regulations for admitting new students and hiring faculties and staff members. The Institute provides special attention to the development of Minority and SC/ST students.
- Holidays are declared by the institute on major religious festivals and events.
- The Institute conducted various special activities, including fundraising for flood relief, help to orphan and old age home, and COVID-19 relief work.
- The Institute encourages students to opt for the audit courses on ethics, human values, Human Rights, and constitutional obligations.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	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 Practice 1

Title: Developing social responsibilities among the student fraternity

The institute undertakes a mission to raise awareness of societal issues among the faculty members and students. The institute is adamant about adopting a socially conscious organizational culture and seeks to encourage residents to uphold high social responsibility standards. The institute makes an attempt to foster students' social responsibility.

The goals for social responsibility are listed below.

- To offer direction and support for the students to participate in social services.
- To encourage the creation of social environments.
- To serve as an indicator of upcoming social events.

The Context:

Considering the need of returning to the society the institute has created an ecosystem by forming different clubs and participating in national Service Scheme. Students are encouraged to take part in events that support environmental sustainability and societal harmony. By supporting the use of environmentally friendly methods and products, the institute additionally supports sustainable living.

The Practice:

The coordinator and members of each club approach the students for a participating in different club activities. The club has coordinators who discuss the organization's goals and offer advice on how to foster a positive attitude toward social responsibility. After the regular lessons, the club is given a specific time slot for regular practice and meetings. To help students build stronger relationships with the community, numerous seminars and awareness campaigns are arranged. Numerous programs, including those promoting women's rights, rural development, energy conservation, health awareness, and other topics, have been organized by the clubs. Through the aforementioned club activities, students are heavily inculcated with the following social views.

- The students conscientiously participate in local community service projects to make the surroundings a better place.
- Students are urged to get involved in charitable initiatives that help the less fortunate.
- Discussions about critical social responsibility-related topics. The discussions encourage students to be more socially responsible by sharing their personal experiences.
- Plan field visits to places that encourage social interaction, accountability, and responsibility. Students' education about the significance of social duty is systematized in this way.

Activities:-

- Cleanliness drive Camp on the occasion of Foundation day at Talegaon.
- Go Green Movement.
- Activities in ZP School.
- Awareness about National Schemes to Villagers.
- Cleanliness Drive on Mahatma Gandhi Jayanti Occasion.
- Health and Hygiene Awareness Program for Girls/Ladies
- Raksha Bandhan Celebration in Orphanage Home.
- Ganesh murti San Kalan.
- Environment Friendly Ganpati Visarjan.
- National Service Scheme (NSS) Special Camp report
- National Service Scheme (NSS) Special Camp report.
-

Best Practice 2

Title: International Collaboration

Objectives:

- To provide International exposure to the students and faculty.

- To organize short-duration visits to reputed universities abroad
- To inculcate Cross-cultural awareness
- To provide an opportunity to work on projects in future technology
- To promote active linkage between Indian and Foreign Higher Education Institutions
- To organize academic and research workshops, seminars.
- To develop global employability skills

The Context:

Internalization promotes sharing of best academic and research practices through interactions between diverse education systems. Nowadays international collaboration is regarded as an effective tool of excellence in education. The major intention of International Affairs Cell is to expand international relations of Sandip Foundation in educational, technical and cultural domains. The International Affairs Cell of Sandip Foundation works on academic mobility and scientific research cooperation. International Affairs Cell focuses on International cooperation as well as support for organization of International conferences, seminars and presentations etc.

The Practice:

Presently the institute is having ten active MOUs with renowned International Universities across the globe for facilitating exchange of knowledge and technical insights. Under these MOUs certain activities are scheduled like participation in summer school training program, organization of guest lectures, workshops and participation in faculty and students exchange for higher education and research.

Presently, the institute is working with Universities like Belarussian National Technical University Belarus, Synergy University Russia, Riga Building College, Riga, Latvia, St Petersburg State University of Telecommunications, St. Petersburg Russia, Yanaka Kupala State University of Grodno Belarus, NSBM Green University, Srilanka etc.

Activities:

- Visits of International delegates
- Summer Training Programs
- International FDP/Workshops
- Sessions for students about higher education in abroad.
- Counselling Sessions for the students.
- Expert Sessions from International faculty.
- Students and Faculty Exchange

Outcomes:

- The activities conducted by international affairs cell provided multi-national exposure for increasing the global standing and visibility of the students and faculty members.

File Description	Document
Any other relevant information	View Document
Best practices as hosted on the Institutional website	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:

A wide, pollution-free campus with distinctive amenities and state-of-the-art laboratories.

Any educational institution's infrastructure is crucial to the overall development of its students. In today's cutthroat society, participation in other co-curricular and extracurricular activities is crucial in addition to academics. Advanced equipment in the labs improves the students' technical skills. Additionally, a clean, green campus could reflect happiness and lower stress levels, which is perfect for technical education. Students might benefit from having a large campus space to explore and enjoy.

1. A pollution-free and lush green campus with beautiful landscaping

Many Indian cities are well known for their diverse industries, including the IT sector, local businesses, and educational institutions. Some of them significantly contribute to the production of noise and air pollution. The youth has physical and emotional problems as a result. THE SIEM Institute is surrounded by green lands, has a wide variety of trees, herbs and plants as a part of landscaping, which keeps the campus free from air and noise pollution and enhances the health and concentration of the teachers and students. Additionally, it encourages students to coexist with nature and view the environment as a friend. Students may find the campus environment to be a treasure to explore and appreciate.

Some key features of the pollution free green SIEM campus:

1. Aesthetically productive learning environment:

Everyone requires a calm and peaceful space to study and concentrate. The SIEM campus provides an exact ambience for study which students need.

1. Excellent indoor atmospheric quality:

Due to poor indoor air quality, many diseases start to manifest in students at very young ages. On the

SIEM campus, this drawback is reduced to a minimum.

1. Better Acoustic:

Effective listening is a prerequisite for understanding. Students' learning is enhanced by the lower noise level on the SIEM campus.

1. Healthy life:

Students can raise their memory level when surrounded by green trees and landscaping. Trees provide clean air and boost the immune system which has been exactly focused in campus.

1. Ecosystem:

A variety of trees and plants grown in the campouts contribute to a rich, healthy ecosystem.

The details of the variety of plants grown and their quantity in and around SIEM campus is as shown in below table.

Sr.No.	Location	Plant Name	Qty	Unit
1	SIEM Civil Building	RoystoneaRegia (Royal Palm)	4	Nos.
		Mimusopselengi	1	Nos.
2	SIEM Road	Tabebuiarosea	48	Nos.
		Ficusbenghalensis	35	Nos.
		Mimusopselengi	9	Nos.
		Bauhinia Variegata	25	Nos.
		Azadirachtaindica	1	Nos.
		Eucalyptus	5	Nos.
		Moringaoleifera	1	Nos.
3	SIEM Front	Saracaasoca	14	Nos.
		Bambusa vulgaris	302	Nos.
		Millettiapinnata	5	Nos.
		MangiferaIndica	3	Nos.
		Santalum album	2	Nos.
		Plumeria	6	Nos.
		Psidiumguajava	2	Nos.
		Pilea	2	Nos.
		Morus alba	1	Nos.
		Prunusavium	5	Nos.
4	SIEM Parking	Anacardiumoccident ale	53	Nos.
		Prunusdulcis	8	Nos.
		Saracaasoca (Sita Ashok)	12	Nos.
Total			544	Nos.

1. Oxygen and Global Warming:

Trees breathe out fresh oxygen while taking in carbon dioxide from the atmosphere. Thousands of trees have already been planted by the institute on the campus, which helps decrease the consequences of global warming.

1. Landscaping

Different plant species are flourished and taken care properly through landscaping. It lowers air pollution. The landscaping on campus is beautifully designed and maintained.

1. Rain/Storm Water Management

Utilizing efficient rain/storm water management, the institute created its own trustworthy water supplies. Institute built a water body. In order to convey the rainwater gathered on the terrace, down take lines have been linked to the institute building. Utilizing the different channels created by the ground's natural slopes, all of the rain and storm water is transferred to the water bodies. Water bodies store water that is used for irrigation and domestic purposes.

B. HUGE CAMPUS WITH UNIQUE FACILITIES

Students seek out campuses with lots of room and places to hang out inside. One of the biggest campuses in Nashik is SIEM. Numerous canteens, a gymkhana, a football and cricket field, and other indoor and outdoor sports facilities are among its highlights. For students to establish discipline, learn teamwork, and sharpen reflexes, sports and physical education are crucial components of holistic development. It provides students with an extra professional option. The commercialization of sports is growing quickly in India, giving athletes notoriety and renown. Additionally, using sports quotas can assist in obtaining employment in government domains.

- **Gathering Place**

An auditorium and multipurpose space are important gathering places where SIEM students can easily carry out annual social gathering functions.

- **Space for future development**

There is a lot of space available in the campus for creating different new resources.

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

5. CONCLUSION

Additional Information :

The success and reputation of SIEM are grounded in various elements that shape the holistic development of its students. In reviewing the comprehensive criteria of curriculum design, teaching methodologies, evaluation practices, research and innovation initiatives, infrastructure, learning resources, student support, and progression opportunities, it is evident that these components intertwine to foster an environment conducive to academic excellence and individual growth. Primarily, the cornerstone of any esteemed institute is its curriculum guided by SPPU, meticulously designed to encompass contemporary trends, diverse perspectives, and interdisciplinary learning. A robust curriculum serves as the roadmap guiding students toward proficiency in their chosen field while encouraging critical thinking and problem-solving skills. The effectiveness of Institutes teaching and learning strategies has been paramount. Incorporating innovative pedagogies, interactive sessions, and personalized mentorship has ensured that students engage deeply with the material, fostering a profound understanding and application of knowledge.

Evaluation practices play a pivotal role in assessing student's comprehension and growth. A balanced evaluation system, including both formative and summative assessments, provides a comprehensive understanding of students' progress and enables educators to tailor their support accordingly. Research and innovation initiatives further have elevated Institutes stature. Encouraging exploration, fostering a culture of curiosity, and providing platforms for cutting-edge research has not only enhanced the learning experience but also contributed to societal advancement of this institution.

Infrastructure and learning resources serve as the foundation for an enriching academic environment. State-of-the-art facilities, well-equipped laboratories, extensive libraries, and advanced technology provided in this institution aid in augmenting the educational experience. Student support services form a safety net, ensuring students receive guidance and assistance beyond academics. Counseling services, career guidance, and extracurricular opportunities contribute significantly to students' holistic development which is taken care of in this campus. Institutes growth and reputation are mirrored in its students' progression. Providing avenues for internships, placements, higher education, and entrepreneurial endeavours has been empowering students to excel beyond the classroom, fostering a legacy of achievement from the date of its establishment.

Concluding Remarks :

To summarize, SIEM excels in all the criteria enlisted, cultivating an environment that nurtures well-rounded individuals equipped with not only academic prowess but also critical life skills. As SIEM continues to uphold these standards, it remains committed to shaping the leaders and innovators of tomorrow, contributing meaningfully to society's progress.

6.ANNEXURE

1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification																				
1.2.1	<p>Number of Certificate/Value added courses offered and online courses of MOOCs, SWAYAM, NPTEL etc. (where the students of the institution have enrolled and successfully completed during the last five years)</p> <p>Answer before DVV Verification :</p> <p>Answer After DVV Verification :04</p> <p>Remark : DVV has made changes as per the report shared by HEI.</p>																				
1.2.2	<p><i>Percentage of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years</i></p> <p>1.2.2.1. Number of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2022-23</th> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> </tr> </thead> <tbody> <tr> <td>1516</td> <td>1328</td> <td>1241</td> <td>1018</td> <td>572</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2022-23</th> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> </tr> </thead> <tbody> <tr> <td>51</td> <td>21</td> <td>238</td> <td>78</td> <td>00</td> </tr> </tbody> </table> <p>Remark : DVV has made changes as per the report shared by HEI.</p>	2022-23	2021-22	2020-21	2019-20	2018-19	1516	1328	1241	1018	572	2022-23	2021-22	2020-21	2019-20	2018-19	51	21	238	78	00
2022-23	2021-22	2020-21	2019-20	2018-19																	
1516	1328	1241	1018	572																	
2022-23	2021-22	2020-21	2019-20	2018-19																	
51	21	238	78	00																	
1.3.2	<p>Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)</p> <p>1.3.2.1. Number of students undertaking project work/field work / internships</p> <p>Answer before DVV Verification : 1399</p> <p>Answer after DVV Verification: 1388</p> <p>Remark : DVV has made changes as per the report shared by HEI.</p>																				
1.4.1	<p><i>Institution obtains feedback on the academic performance and ambience of the institution from various stakeholders, such as Students, Teachers, Employers, Alumni etc. and action taken report on the feedback is made available on institutional website</i></p> <p>Answer before DVV Verification : A. Feedback collected, analysed, action taken& communicated to the relevant bodies and feedback hosted on the institutional website</p> <p>Answer After DVV Verification: B. Feedback collected, analysed and action has been taken</p>																				

and communicated to the relevant bodies

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

2.1.2 Percentage of seats filled against reserved categories (SC, ST, OBC etc.) as per applicable reservation policy for the first year admission during the last five years

2.1.2.1. Number of actual students admitted from the reserved categories year wise during last five years (Exclusive of supernumerary seats)

Answer before DVV Verification:

2022-23	2021-22	2020-21	2019-20	2018-19
205	166	174	79	166

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
109	105	122	74	148

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

Answer before DVV Verification:

2022-23	2021-22	2020-21	2019-20	2018-19
205	166	174	79	166

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
180	180	180	210	240

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

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

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

Answer before DVV Verification:

2022-23	2021-22	2020-21	2019-20	2018-19
71	59	21	84	46

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
9	7	4	7	4

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

3.3.1 Number of research papers published per teacher in the Journals notified on UGC care list during the last five years

3.3.1.1. Number of research papers in the Journals notified on UGC CARE list year wise during the last five years

Answer before DVV Verification:

2022-23	2021-22	2020-21	2019-20	2018-19
91	52	36	48	45

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
26	39	32	24	42

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

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

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

Answer before DVV Verification:

2022-23	2021-22	2020-21	2019-20	2018-19
451	71	47	39	144

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
06	428	55	44	109

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

3.4.3 Number of extension and outreach programs conducted by the institution through organized forums including NSS/NCC with involvement of community during the last five years.

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

Answer before DVV Verification:

2022-23	2021-22	2020-21	2019-20	2018-19
20	15	14	15	12

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
10	05	04	09	09

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

3.5.1 ***Number of functional MoUs/linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years.***

Answer before DVV Verification :

Answer After DVV Verification :45

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

5.1.4 ***The institution adopts the following for 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**

Answer before DVV Verification : A. All of the above

Answer After DVV Verification: B. 3 of the above

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

5.2.2 ***Percentage of students qualifying in state/national/ international level examinations during the last five years***

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

Answer before DVV Verification:

2022-23	2021-22	2020-21	2019-20	2018-19
14	13	3	2	4

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
15	15	04	02	04

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

5.3.1 **Number of awards/medals for outstanding performance in sports/ cultural activities at**

University / state/ national / international level (award for a team event should be counted as one) during the last five years

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

Answer before DVV Verification:

2022-23	2021-22	2020-21	2019-20	2018-19
10	13	7	6	2

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
2	3	4	1	0

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

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

5.3.2.1. Number of sports and cultural programs in which students of the Institution participated year wise during last five years

Answer before DVV Verification:

2022-23	2021-22	2020-21	2019-20	2018-19
58	40	6	39	23

Answer After DVV Verification :

2022-23	2021-22	2020-21	2019-20	2018-19
09	06	02	05	05

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

6.5.2 Quality assurance initiatives of the institution include:

- 1. Regular meeting of Internal Quality Assurance Cell (IQAC); quality improvement initiatives identified and implemented**
- 2. Academic and Administrative Audit (AAA) and follow-up action taken**
- 3. Collaborative quality initiatives with other institution(s)**
- 4. Participation in NIRF and other recognized rankings**
- 5. Any other quality audit/accreditation recognized by state, national or international agencies such as NAAC, NBA etc.**

Answer before DVV Verification : A. Any 4 or more of the above

Answer After DVV Verification: B. Any 3 of the above

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

7.1.2

The Institution has facilities and initiatives for

1. **Alternate sources of energy and energy conservation measures**
2. **Management of the various types of degradable and nondegradable waste**
3. **Water conservation**
4. **Green campus initiatives**
5. **Disabled-friendly, barrier free environment**

Answer before DVV Verification : A. 4 or All of the above

Answer After DVV Verification: B. 3 of the above

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

2.Extended Profile Deviations

ID	Extended Questions																				
1.1	<p>Expenditure excluding salary component year wise during the last five years (INR in lakhs)</p> <p>Answer before DVV Verification:</p> <table border="1"><thead><tr><th>2022-23</th><th>2021-22</th><th>2020-21</th><th>2019-20</th><th>2018-19</th></tr></thead><tbody><tr><td>673.58</td><td>716.97</td><td>617.43</td><td>619.65</td><td>866.78</td></tr></tbody></table> <p>Answer After DVV Verification:</p> <table border="1"><thead><tr><th>2022-23</th><th>2021-22</th><th>2020-21</th><th>2019-20</th><th>2018-19</th></tr></thead><tbody><tr><td>550.49</td><td>662.67</td><td>712.90</td><td>492.00</td><td>897.01</td></tr></tbody></table>	2022-23	2021-22	2020-21	2019-20	2018-19	673.58	716.97	617.43	619.65	866.78	2022-23	2021-22	2020-21	2019-20	2018-19	550.49	662.67	712.90	492.00	897.01
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