



## Yearly Status Report - 2019-2020

### Part A

#### Data of the Institution

<b>1. Name of the Institution</b>		SANDIP INSTITUTE OF ENGINEERING AND MANAGEMENT
Name of the head of the Institution		Dr. Dipak Pandurang Patil
Designation		Principal (in-charge)
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		02594-222581
Mobile no.		9545453265
Registered Email		principal@siem.org.in
Alternate Email		sandipfoundation@gmail.com
Address		Sandip Institute of Engineering and Management, At Post-Mahiravani, Trimbak Road Tal.- Nashik, Dist. -Nashik-422213.
City/Town		Nashik
State/UT		Maharashtra

Pincode	422213																		
<b>2. Institutional Status</b>																			
Affiliated / Constituent	Affiliated																		
Type of Institution	Co-education																		
Location	Rural																		
Financial Status	private																		
Name of the IQAC co-ordinator/Director	Dr. Lalit Kashinath Toke																		
Phone no/Alternate Phone no.	02594222581																		
Mobile no.	7709044967																		
Registered Email	principal@siem.org.in																		
Alternate Email	lalit.toke@siem.org.in																		
<b>3. Website Address</b>																			
Web-link of the AQAR: (Previous Academic Year)	<a href="http://www.siem.sandipfoundation.org/">http://www.siem.sandipfoundation.org/</a>																		
<b>4. Whether Academic Calendar prepared during the year</b>	Yes																		
if yes,whether it is uploaded in the institutional website: Weblink :	<a href="https://www.siem.sandipfoundation.org/academic-calender/">https://www.siem.sandipfoundation.org/academic-calender/</a>																		
<b>5. Accrediation Details</b>																			
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1	B++	2.89	2018	02-Nov-2018	02-Nov-2023														
<b>6. Date of Establishment of IQAC</b>	03-Apr-2017																		
<b>7. Internal Quality Assurance System</b>																			
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IQAC		
Student Faculty Development Program (SFDP) on Role of Engineer in Uplifting the Industry After Post Covid-19 Lockdown in India	11-May-2020 5	520
FDP on Renewable energy Utilization	26-May-2020 5	203
International conference on emerging trends in engineering and technology (ICETET-2020)	28-May-2020 2	550
Problem Solving using 8D Systematic	14-May-2020 1	378
One week online training program on Make in India A journey towards Self Reliance	23-Jun-2021 5	147
Desire-2020 National Level Tech Fest	14-Feb-2020 2	548
3D printing workshop	20-Sep-2019 2	247
Workshop on Basics & Advanced Java	17-Sep-2019 4	73
Workshop on Web Technology	09-Mar-2020 5	65
Sandipdrishti-2020 National Level Tech Fest	14-Feb-2020 2	223
<a href="#">View File</a>		

**8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.**

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Electronics & Telecommunication Engineering	AICTEAQIS	AICTE	2020 364	235867
<a href="#">View File</a>				

**9. Whether composition of IQAC as per latest NAAC guidelines:**

Yes

Upload latest notification of formation of IQAC

[View File](#)

**10. Number of IQAC meetings held during the year :**

2

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes												
Upload the minutes of meeting and action taken report	<a href="#">View File</a>												
<b>11. Whether IQAC received funding from any of the funding agency to support its activities during the year?</b>	No												
<b>12. Significant contributions made by IQAC during the current year(maximum five bullets)</b>													
Academic and Administrative Audit conducted. Participated in NIRF, Participated in AICTE Vishwakarma Award Participated in Avishkar , Smart India Hackathon, participated in SAE BAHA Activities under MHRD IIC (Innovation of institutions cell)													
<a href="#">View File</a>													
<b>13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year</b>													
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<a href="#">View File</a>													
<b>14. Whether AQAR was placed before statutory body ?</b>	No												
<b>15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?</b>	No												
<b>16. Whether institutional data submitted to AISHE:</b>	Yes												

Year of Submission	2020
Date of Submission	30-Jan-2020
<b>17. Does the Institution have Management Information System ?</b>	Yes
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	<p>College is having Enterprise Resource Planning (ERP) software through which College authorities and Management is kept informed about the day to day academic and administrative processes/progress. HODs, Deans, Registrar, Principal Management are having different levels of authority as per hierarchy to monitor and control various academic and administrative processes through ERP. Some of the main modules which are operated through ERP software are as follows: ? Planning and Development • All kinds of Leave Management of staff • Time Table Management • Faculty Feedback • Activity Plan • Various days celebration ? Administration Educational ERP has edge over traditional method of institutional management. Cost reduction, accuracy and efficiency are some of main factors that keep ERP solution ahead of traditional methods. However ERP system deals with the complete institutional process and functioning related to academic, admission, registration, examination, finance, HR, course materials, placement, students information, Alumni etc. • Staff Registration, Reporting, Transfer, Attendance Process • Staff Salary Calculation • All Allowance • Examination Module • Call Log for: 1) System IT Support 2) Transport 3) Electrical Maintenance. • Vehicle Management ? Finance and Accounts • Faculty TA/DA Bills • Staff Salary Calculation • Deductions Details • Bills for: 1) Daily allowance 2) Petrol allowance 3) Travelling allowance ? Student Admission and Support A prospective student can get required information about the institute and the detailed procedure about the admission process. Following aspects of admission are normally included in ERP: Information related to: • About the institute • The courses available •</p>

Information about faculty, placement, infrastructures • Fees Module • Student Login • Online Document • Admission • Attendance • Feedback • Admission process • Student registration Enrolment System ? Examination Examination is considered as acid test for both student and teachers. Proper evaluation in spread over basis is required to know student's standard of width and depth of knowledge is taught and acquired and cultivated. Some aspects of examination management are included in ERP are mentioned below: • Demo Exam Subject wise • Exam Schedule • Class test results

## Part B

### CRITERION I – CURRICULAR ASPECTS

#### 1.1 – Curriculum Planning and Implementation

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

Sandip Institute of Engineering and Management (SIEM) is affiliated to Savitribai Phule Pune University (SPPU). The curriculum and academic calendar, set by the Pune University is followed by the institute. Before commencement of every semester, Principal approves the academic monitoring committee (AMC) which is headed by dean academics of the institute. AMC formulates work line and prepare academic plan for upcoming semester by preparing academic calendar. The academic calendar of the institute is then circulated to all Heads of the respective departments for finalizing various departmental activities. Teaching load distribution of the next semester is handed over to the faculty members, after completion of previous semester. This leads to providing sufficient time to the faculties for preparation of their respective subjects, thereby resulting in smooth conduction of academics in each department. While finalizing the teaching load distribution, due consideration is given to subject choice and expertise of the faculty. Institute has well equipped Enterprise Resources Planning (ERP) software for proper execution of formulated academic policies. This software is utilized to upload timetable, monitor student's daily attendance, learning material and notices to students and parents. Academic performance data is collected through ERP, printed and posted. Student's absenteeism is conveyed to parents through ERP generated text messages. ERP provides various administrative & academic activities to students. Institute has well developed Tutor system to monitor academic performance and provide personal attention and counseling of each and every student. For effective implementation of academic policies, the institute has well designed hierarchy headed by Principal, followed by dean academics, HOD of respective departments, class coordinators, subject experts, tutors & faculty members. The institute achieves its vision and mission through continuous internal assessment system, which is in line with SPPU curriculum. Each faculty prepares course file which contains information related to Program Educational Objectives (PEO), Program Specific Objectives (PSO), Program Outcomes (PO), Course Outcomes (CO) and Mapping of CO's with PO's. This course file also includes Academic Calendar (AC), Individual Time Table (TT), University Structure and Syllabus (US), Teaching Plan (TP), List of References and Text Books (RB) & Question Bank. Faculty also prepares Unit-wise Notes (UwN),

Question papers of Class Test/ In-sem/ End-sem Examinations (QP), University Question papers with solution (QP), Tutorials / Assignments (if any). Faculty promotes Self Learning/Problem and project Based Learning to students. Each department also works to enrich students with updated field knowledge by covering contents beyond syllabus, Value added programs, workshops, seminars and expert lecture etc. Institute promotes innovative teaching methodologies such as power point presentations, videos, animations, quiz conduction, site visits and model demonstration to make teaching learning process interesting & efficient. Institute provides extra library hours to the students so that they can refer various reference books and journals. Students can also access various video lectures (like NPTEL) and other E-learning material using digital library facility. Class tests are conducted to observe the performance of the students at regular intervals. As per university norms, Institute conducts university exams in disciplined environment.

#### 1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
NIL	NIL	Nil	00	NIL	NIL

### 1.2 – Academic Flexibility

#### 1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
BE	First Year Bachelor of Engineering (Choice Based Credit System) (2019 Course) (With Effect from Academic Year 2019-20)	07/05/2019
<a href="#">View File</a>		

#### 1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	NIL	07/05/2019

#### 1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

	Certificate	Diploma Course
Number of Students	120	Nil

### 1.3 – Curriculum Enrichment

#### 1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
Group Discussion , Interview Skills and Personality Development by Osden	27/01/2020	27
Android App Development	05/04/2020	1588
DBMS?SQL	09/04/2019	35
Basic and Advanced Java	17/09/2019	62

Workshop on Web Technology	09/09/2020	61
CATIA	06/09/2019	12
SOLID WORKS	20/02/2020	39
Group Discussion , Interview Skills and Personality Development	02/02/2020	35
<a href="#">View File</a>		

### 1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	Internship	17
BE	Training	129
BE	Field Projects	86
<a href="#">View File</a>		

## 1.4 – Feedback System

### 1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

### 1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback Obtained
<p>The Institute takes feedback of all faculties from students for all the subjects. It is ensured that students providing the feedback are regularly attending the class. The feedback system is online. The feedback form covers the questions on various aspects like concept clarity, different variety of teaching-learning modes, class interactions etc. On the basis of respond given by students, each faculty has their feedback in percentile and also has graphical analysis of it. The feedback with analysis is send to Head of Department and individual faculty. Improvements letters are given to the faculties those are not having good feedback and Appreciation letter is given to the faculties those are having good feedback. This forms an important tool for self-improvement as well as incentive to continue good work.</p>

## CRITERION II – TEACHING- LEARNING AND EVALUATION

### 2.1 – Student Enrolment and Profile

#### 2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BE	Mechanical Engineering (FE)	120	Nil	27
BE	Electronics &	53	Nil	7



	Tele-Communication Engineering (Lateral Entry)			
BE	Electronics & Tele-Communication Engineering (FE)	60	Nill	7
BE	Electrical Engineering (Lateral Entry)	115	Nill	114
BE	Electrical Engineering (FE)	60	Nill	50
BE	Computer Engineering (Lateral Entry)	15	Nill	15
BE	Computer Engineering (FE)	60	Nill	51
BE	Civil Engineering (Direct 2nd Year)	Nill	Nill	Nill
BE	Civil Engineering (Lateral Entry)	81	Nill	81
BE	Civil Engineering (FE)	120	Nill	13
<a href="#">View File</a>				

## 2.2 – Catering to Student Diversity

### 2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	1880	Nill	106	Nill	106

## 2.3 – Teaching - Learning Process

### 2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
106	106	11	29	2	9

[View File of ICT Tools and resources](#)

**2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)**

Need of Tutor System: Adapting to college environment study pressure is an emerging issue in technical education system. To help college students in resolving these, we have TUTOR SYSTEM for their counselling overall development. This system is interactive and targetoriented, involving students, teachers and parents. Who is a Tutor? A teacher who gives extra help to the student for his overall development through in person counseling. A teacher is a potential counselor. A tutor act as the guardians of students at the college level who guides a batch of 2025 students and motivate them to move up in their professional career. Tutor coordinate with wardens of hostels, parents and based on students, academic record and behavior patterns take necessary corrective action. Tutor meet Every fortnight the Tutor meet is conducted for one hour as per the time table. In this interactive hour students day to day problems are discussed solved. The record is maintained in Tutor hand book of individual student. Along with this the major attention is given on counselling of students Some areas of counselling are: Nurturing and Healing Problem Crisis management Decision Making Support and life skills training Major Components of Tutor System • Orientation This activity helps students to be familiar with the college, courses, activities, facilities, staff etc. and adjust to the college environment and develop positive attitudes. Orientation also helps the student to know their purpose of living. • Group Guidance Group guidance activities are organized to promote students educational and personalsocial development and adjustment and provide career information class talks / career talks, discussions, etc. • Counseling Counseling focuses on student's growth and adjustment and promotes problem solving and decision making. It is generally provided to individual students as per the requirement. However, sometimes a small group of students having similar concern are provided group counseling. Role of Tutor: Academic domain : Improving study skills attendance, Motivation to learn Identifying and addressing barriers to academic learning (such as problems related to attendance, discipline, health, family, peer pressure, language, barriers, learning disabilities, educational gaps, lack of interest). Career domain: Students need to develop career identity i.e. developing a view of self in a career. Guidance and Counseling helps the student to find answer to the questions: Who am I? What will I do with my life? Developing vision of careers and occupations which will create interest and motivate them to complete the present courses and pursue further education and training. Knowing their interests and develop interest, relate it with career options. PersonalSocial domain: Healthy relationships with parents, sibling, peers, making friends and handling conflicts related to these groups. Defining self meaningfully which involves concerns related to academic achievements, career, goals, values, strengths and weaknesses, uniqueness of oneself and similarity to others resulting pressures to learn new social roles, conformity with roles

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1880	106	1:18

**2.4 – Teacher Profile and Quality**

**2.4.1 – Number of full time teachers appointed during the year**

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
106	106	Nill	35	7

**2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year )**

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2020	NIL	Nill	NIL

[View File](#)

**2.5 – Evaluation Process and Reforms**

**2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year**

Programme Name	Programme Code	Semester/ year	Last date of the last	Date of declaration of
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			semester-end/ year-end examination	results of semester-end/ year- end examination
BE	ESH (FE)	SEM -1	02/01/2020	20/02/2020
BE	SE- CIVIL-533119110	SEM -1	05/12/2019	20/02/2020
BE	SE- MECH-533161210	SEM -1	05/12/2019	20/02/2020
BE	SE- ELECT-533129310	SEM -1	05/12/2019	20/02/2020
BE	SE- E TC-533137210	SEM -1	05/12/2019	20/02/2020
BE	SE -COMP-533124510	SEM -1	05/12/2019	20/02/2020
BE	TE- CIVIL-533119110	SEM -1	07/12/2019	20/01/2020
BE	TE- MECH-533161210	SEM -1	07/12/2019	20/01/2020
BE	TE -ELECT-533 129310	SEM -1	07/12/2019	20/01/2020
BE	TE- E TC-533137210	SEM -1	07/12/2019	20/01/2020

[View File](#)

#### 2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

Evaluation is a measure of the learning of a student. Internal evaluation process developed by institute is as follows: Institute evaluates the students based on attendance, performance in unit tests/prelims/online test and at least one of the following: home assignments, periodical quizzes, laboratory work, project reports, seminar reports, students overall performance or assignment which supports the credit based system. The distribution of marks to the various components of assessment is decided by the AMC and communicated to the all teachers and in turn communicated to students before commencement of semester. Continuous evaluation of practical sessions is carried out by faculty members. Continuous internal evaluation of project work of final year students and Technical seminar presentations of third year students is carried out throughout the year. Evaluation schedule and weightages are informed to the students at the start of the semester. Department wise unit tests were conducted during the semester to evaluate progress of student. As university adopted In Semester examination pattern, institute conducts prelim examinations once the syllabus is completed and prior to university examinations to evaluate the course outcomes. The use of open book test was recommended by AMC during meeting to increase interest and involvement of students in prelim examinations. Open book test carrying substantial weightage has been widely accepted by the students. Due to changes in university examination pattern, pedagogic transformation has taken place. Institute guide students to adopt e learning practices such as MyExamo (Online examination portal) for online exam preparation.

#### 2.5.3 – Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

Institution adheres to the academic calendar for the continuous internal evaluation process as follows, University provides an academic calendar before

the commencement of academic year which contains the number of days for teaching and examination dates. To fulfill the program requirements institute level academic calendar is prepared by Academic Monitoring Committee (AMC). The committee consisting of Principal, Dean Academic, The academic calendar prepared well in advance before the commencement of the semester. The calendar outlines the semester as commencement of teaching, tutor meets, annual functions, sport activities, display of monthly attendance, syllabus coverage reports, various university examination details, students feedback, parents meet, conclusion of teaching, etc.. The academic calendar is displayed on the notice board and accessible on website. Department academic calendar is prepared in tune with university and institute calendar by considering the workshops, seminars, industrial visit, Cocurricular activities, value addition program (VAP), etc. Syllabus coverage reports are monitored by Head of department and AMC. In case of any lapse in teaching plan, Head of Department asks the faculty to conduct extra classes or take extra measures to complete the syllabus. Academic audit is conducted by AMC to monitor the coverage of syllabus and practical in the line of academic calendar. Online examination practice tests are scheduled to improve the performance in online examinations The results of all the internal tests are displayed and communicated to all the students and parents according to the academic calendar.

## 2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

<http://www.siem.sandipfoundation.org/course-outcome/>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
533161210	BE	Mechanical Engineering	204	198	97.06
533129310	BE	Electrical Engineering	165	159	96.36
533137210	BE	E&TC Engineering	66	63	95.45
533124510	BE	Computer Engineering	66	65	98.48
533119110	BE	Civil Engineering	187	176	94.13

[View File](#)

## 2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

<http://www.siem.sandipfoundation.org/academics/feedback/>

## CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 – Resource Mobilization for Research

3.1.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding	Total grant	Amount received
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		agency	sanctioned	during the year
Students Research Projects (Other than compulsory by the University)	365	GIZ-NIMA	55000	55000
Any Other (Specify)	7	AICTE	227692	227692
<a href="#">View File</a>				

### 3.2 – Innovation Ecosystem

3.2.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
Workshop on Web Technology	Computer Engineering	09/03/2020
Googles Explore Machine Learning Program	Computer Engineering	30/01/2020
Soft Skill Workshop	Computer Engineering	27/01/2020
Web Technology ( HTML, CSS) Workshop.	Computer Engineering	07/02/2020
Aptitude Training Workshop	Computer Engineering	28/08/2019
Expert Lecture on " Income Tax and depreciation	Computer Engineering	24/09/2019
Employability Skill Development (ESD) Program	Computer Engineering	24/06/2019
Expert Lecture on " Economic Equivalence	Computer Engineering	27/09/2019
Workshop on "Basics Advanced Java	Computer Engineering	17/09/2019
Expert Lecture on " Engineering economics	Computer Engineering	23/09/2019
Workshop on database management system	Computer Engineering	13/07/2019
Guest Lecture on "Theory Of Computation	Computer Engineering	10/08/2019
Training Hire Program by Xento Systems, Pune	Computer Engineering	29/08/2019
Workshop on "C" Programming	Computer Engineering	07/06/2019
One Week Online Training on Android Apps Development	Electronics Telecommunication Engineering	04/05/2020
Value Added Programs on CATIA	Mechanical Engineering	06/06/2019

Value Added Programs on Solid Works	Mechanical Engineering	20/02/2020
Seminar on Intellectual Property Rights by Dr. Suryakant Patil	Mechanical Engineering	19/09/2019
Problem Solving using 8D Systematic	Mechanical Engineering	14/05/2020
Expert Talk on "Hands on Mechatronics	Mechanical Engineering	06/02/2020
"Expert Talk on "Careers in HVAC" (Heating Ventilation Air Conditioning)	Mechanical Engineering	04/02/2020
Expert Talk on Importance Industrial Engineering tools in Practical application	Mechanical Engineering	30/01/2020
Expert talk on "Solid Works"	Mechanical Engineering	10/01/2020
Expert Talk on Competitive Exams Preparation	Mechanical Engineering	11/09/2019
Expert Talk on Goal Setting Stress Management	Mechanical Engineering	25/09/2019
Expert Talk on Va pour Recovery system	Mechanical Engineering	13/09/2019
Awareness Session on Abroad Studies	Mechanical Engineering	19/09/2019
Awareness Session on System Application Programming (SAP)	Mechanical Engineering	11/09/2019
Employability Skill Development Workshop	Mechanical Engineering	23/09/2019
PCRA Expert Talk	Mechanical Engineering	16/09/2019
expert talk on Rapid Prototyping Technologies	Mechanical Engineering	17/09/2019
Employability Skill Development Workshop	Mechanical Engineering	31/07/2020
Employability Skill Development Workshop	Mechanical Engineering	28/07/2019
Employability Skill Development Workshop	Mechanical Engineering	25/07/2019
Expert Talk on Aptitude Awareness	Mechanical Engineering	11/07/2019
3D Experience on Wheels Demo	Mechanical Engineering	25/06/2019

3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
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NIL	NIL	NIL	Nil	NIL
<a href="#">View File</a>				

### 3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
1	SIEM, Incubation Centre	College	NIL	NIL	Nil
<a href="#">View File</a>					

### 3.3 – Research Publications and Awards

#### 3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
0	0	0

#### 3.3.2 – Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded
NIL	Nil

#### 3.3.3 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Civil Engineering	2	0
International	Computer Engineering	14	0
International	Electrical Engineering	6	0
International	Electronics Telecommunication Engineering	6	2
International	Mechanical Engineering	12	0
<a href="#">View File</a>			

#### 3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Computer Engineering	Nil
Civil Engineering	1
Electrical Engineering	5
Electronics Telecommunication Engineering	10
Mechanical Engineering	3
<a href="#">View File</a>	

#### 3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Model Development for optimizing compressive strength of remixed concrete.	Prof. K. L. Bidkar	Journal of Information and Computational Science	2019	0	Sandip Institute of Engineering and Management	Nil
Semi Automatic Seed Sowing Robot	Prof. M.K. Sangole,	IJITEE	2020	0	Sandip Institute of Engineering and Management	Nil
Efficient Energy Metering for Electric Vehical Charging infrastructure	Prof. Y.R. Risodkar	International Journal of advance Science and Technology	2020	0	Sandip Institute of Engineering and Management	Nil
Critical success of green manufacturing for achieving sustainability in Indian context	Lalit K. Toke	International Journal of Sustainable Engineering	2019	26	Sandip Institute of Engineering and Management	10
Total quality management in small and medium enterprises: An overview in Indian context	Lalit K. Toke	Quality Management Journal	2020	11	Sandip Institute of Engineering and Management	6
Design and Analysis of Double End Drive Machine for Automation	N L Bhirud	Journal of Physics: Conference Series	2020	70	Sandip University, Nashik	1



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### 3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
NIL	NIL	NIL	2020	Nil	Nil	NIL
NIL	NIL	NIL	2019	Nil	Nil	NIL
<a href="#">View File</a>						

### 3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	9	7	9	6
Presented papers	18	Nil	Nil	Nil
Attended/Seminars/Workshops	10	8	7	5
<a href="#">View File</a>				

## 3.4 – Extension Activities

### 3.4.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Tree Plantation	National Service Scheme	4	100
Awareness about Digital Payments	National Service Scheme	4	100
Health Check up camp	National Service Scheme	4	100
Awareness about national schemes provided by government of India	National Service Scheme	4	100
Importance of Yoga	National Service Scheme	4	100
Activities in ZP school	National Service Scheme	4	100
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### 3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students
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			Benefited
Workshop on Remote Sensing Digital Image Analysis"	Recognition	IIRS-ISRO	39
<a href="#">View File</a>			

3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
AIDS Awareness	National Service Scheme	Awareness about Education, AIDS and cleanliness	4	100
Swaccha Bharat Abhiyan	National Service Scheme	Swaccha Bharat Abhiyan	4	100
<a href="#">View File</a>				

### 3.5 – Collaborations

3.5.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
Industrial Visit	S.E. (Computer)	Sandip Institute of Engineering and Management, Nashik	1
Industrial Visit	T.E. (Computer)	Sandip Institute of Engineering and Management, Nashik	1
Industrial Visit	T.E. Mechanical	Orchid Cooling and Cleaning Pvt. Ltd.	1
Industrial Visit	S.E. Mechanical	Sahakar Maharshi Bhausaheb Thorat Sahakari Sakhar Karkhana LTD.Sangamner, Ahmednagar, 422 608 Maharashtra	1
Industrial Visit	T.E. Mechanical	Nilgiri Pumping Station, Nashik	1
<a href="#">View File</a>			

3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant

MoU	Train Hire	Xento Systems	29/06/2019	29/06/2020	15
Internship	Internship Program	Softsyst Pvt Ltd Nashik	14/03/2020	14/03/2020	1
MOU	Internship Program	POOJA INDUSTRIAL TRAINING CENTRE	15/12/2019	30/12/2019	56
Value Addition Program	Value Addition Program on 3D Printing	ARK TECHNOLOGIES PVT. LTD.	17/10/2019	31/10/2019	127
Internship	Internship Program	Adani Dahanu Thermal Power Station, Dahanu	20/12/2019	27/12/2019	19

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3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
GB Softronics Nashik	20/04/2020	Students training Lab setup for Robotics	4
GB softronics Nashik	20/04/2020	Student Training Lab setting for Machine Learning	4
IFERP	31/01/2020	TO PROMOTE RESEARCH ACTIVITIES IN THE INSTITUTE	65
POOJA INDUSTRIAL TRAINING CENTRE	16/12/2019	TO PROMOTE INTERNSHIP ACTIVITIES	61

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### **CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES**

#### **4.1 – Physical Facilities**

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
2120760	10878275

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing

Laboratories	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Nil
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
<a href="#">View File</a>	

#### 4.2 – Library as a Learning Resource

##### 4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
KOHA Library software	Partially	18.11.04.000	2009

##### 4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	21842	7723268	225	151883	22067	7875151
e-Books	677	17500	Nil	Nil	677	17500
Journals	54	155787	Nil	Nil	54	155787
e-Journals	838	13570	Nil	Nil	838	13570
Digital Database	2	Nil	Nil	Nil	2	Nil
CD & Video	1747	Nil	Nil	Nil	1747	Nil
Library Automation	Nil	87860	Nil	Nil	Nil	87860
Weeding (hard & soft)	Nil	Nil	Nil	Nil	Nil	Nil
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##### 4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
NIL	NIL	NIL	Nil
<a href="#">View File</a>			

#### 4.3 – IT Infrastructure

##### 4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	557	17	155	0	40	15	0	0	0
Added	0	0	100	0	0	0	0	0	0
Total	557	17	255	0	40	15	0	0	0

#### 4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

255 MBPS/ GBPS

#### 4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
NPTL	<a href="http://www.siem.sandipfoundation.org/e-source/">http://www.siem.sandipfoundation.org/e-source/</a>

### 4.4 – Maintenance of Campus Infrastructure

#### 4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
230.25	297.65	482.37	696.32

#### 4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

For maintenance of computers the ERP based call log system is implemented in the institute. The faculty/staff requiring computer related maintenance put a call log from his PC. The call log is then received by system department and they take care of repair. Similarly, the maintenance of laboratory, classrooms, sports complex can be done using ERP. The civil work is monitored by project department. In case of repair, the requisition form has to be filled by the concerned staff and to be given to project department and it takes care of repair and maintenance.

<http://www.siem.sandipfoundation.org/maintenance-policies/>

### CRITERION V – STUDENT SUPPORT AND PROGRESSION

#### 5.1 – Student Support

##### 5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	nil	0	0
Financial Support from Other Sources			
a) National	Government Scholarship	1559	76880583
b) International	nil	Nil	0

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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Aptitude and its importance in Career building	14/07/2019	250	Gurucool Academy
Aptitude training and Job interviews	20/08/2019	250	Mr. Shubham Upadhay
Session on Aptitude, Verbal Skills and Interview	01/09/2019	250	FUEL Academy
Guidelines for Competitive exams	11/09/2019	120	Mr. Ram Khairnar
Goal setting and stress management	25/09/2019	100	Mr. Vikram Thorat, Bosch India, Nashik
Training Hire Program	29/08/2019	60	Xento Systems, Pune
Career and Education in Foreign Countries	14/09/2019	120	Akshay Study Abroad
Career Opportunities for Engineers and Application of Aptitude for an excellent career	24/09/2019	110	Kiran Tote, iCAN, Nashik
Session on Awareness of Rishabh Instruments Placement Drive	24/01/2020	80	Ansari Mudassir Anjum (Assistant Manager, Godrej Boyce Co. Ltd
Carrier Guidance in electrical sector	15/07/2019	85	Prof. Dr. Kishor Badhane

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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	Guidance for competitive examinations	750	Nil	5	Nil

2019	Career Counseling	Nil	800	Nil	240
<a href="#">View File</a>					

5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
Nil	Nil	Nil

## 5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
Infosys, Pune	27	2	Sigma Electrical Pune	15	1
<a href="#">View File</a>					

5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2020	1	B.E	Civil	Sandip Univ. Nasik	M.Tech.
2020	1	B.E	Civil	N.D.M.V.P Nasik	M, Tech.
2020	2	B.E	Civil	Amity Univ. Mumbai	MBA
2019	1	B.E	Electrical	NIT, Bhopal	M. Tech.
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5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GATE	1
TOFEL	1
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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Technophilia	Institution	200
Desire	Institution	1000
Sandipotsav- Cultural Fest	Institution	500

MechSummit	Institution	600
Drishti	Institution	350
TechFight	Institution	280
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### 5.3 – Student Participation and Activities

5.3.1 – 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	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	SAE virtual BAJA, Chitkara Univ, Punjab	National	9	4	412017021	Kartik Kumbar
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5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

The institute has elected members of Student Council, who represents students' community in Academic Administrative Issues. We consider that it is beneficial for felicitating student's representation in various working bodies in the institute. The members of the council include Class representatives from each class from First to Final year and office bearers like NSS coordinator a Cultural coordinator a Sports coordinator and Ladies representative. The committee is headed by Student welfare officer and assisted by NSS coordinator. The student council helps share students ideas, interests, and concerns with faculties and management to create environment, conducive to educational and personal development. The council acts as a link between department and fellow students towards enhancing learning environment. The students actively participate in organizing both technical non-technical activities, thereby contributing towards fulfilling goals of the institute. Students help in arranging Industrial interactions / Expert Talks sessions. Every activity arranged for students are assessed by student feedback for improving future activities. Students also help in Administrative activities in the institute. Students coordinate in arranging all Co-Curricular, Extra-curricular and cultural activities at institute level. Student teams helps in maintaining discipline during any events supports the smooth conduction of the event. Students are active members of NSS group of Institute. Under the guidance of NSS Coordinator, students actively arrange various events focusing on the objective of NSS. Students get involved in NSS camps and provide their services towards the society. As a part of Students Association, all activities are coordinated and supported by students who perform all the necessary tasks. Also many organize educational and recreational activities for students. Students participate in sporting events at the institute from participation to event management. Students actively participate in marketing of events organized by the institute.

### 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Presently, we have Alumni Association who is working with the initiative of



"STAY CONNECTED". We have registered our Alumni Association as per the government norms with registration number -MAHA/843/NA. Alumni Association consists of office bearers like President, a Vice-President, a Secretary, Treasurer and 5 alumni members. This team looks after the Alumni activities of the institute. The Alumni Association contributes in the institute through the following manners: 1. The alumni members are invited to attend events activities. 2. Alumni Interaction Session or Guest Lectures are conducted where they share their expertise and current technological trends. 3. The students interact with alumni to get updated information on market requirements, as they get realistic inputs related to usefulness of the academics 4. Alumni guide the present students through sessions for building their professional personality. 5. The alumni share their professional experiences with students and encourage them to develop trade skills. 6. Alumni Meets are being arranged regularly towards suggestions related to curriculum design, placement activities and value - added programs. 7. Alumni suggestions are involved for defining the Program Specific Outcomes, Program Educational Objectives, and in the Mission Vision of department and institute. 8. Alumni Feedback helps in planning activities for professional skill development and contributes to the well-being of the Alma Mater. 9. Alumni members help the department to get in contact with industrial / corporate world towards good academic-industry tie-ups and maintaining relations.

5.4.2 – No. of enrolled Alumni:

2001

5.4.3 – Alumni contribution during the year (in Rupees) :

0

5.4.4 – Meetings/activities organized by Alumni Association :

Every department has organized Alumni meet at department level which is attended by around 50 students each. The students visits the department for regular student interaction and guidance. Total number of meetings conducted in academic year 2019-20 are 5.

## **CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT**

### **6.1 – Institutional Vision and Leadership**

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

The Institute promotes culture of decentralization and participative management at various levels. At the Institute level Governing Council (GC) is formed as per the University Grants Commission (UGC) and All India Council for Technical Education (AICTE) guidelines. Governing Council is the central decision making body of the college, composed of members of the management, representative from AICTE, DTE Maharashtra, University, Principal and senior faculty members. The institute has formed College Development Committee (CDC) as per the University guidelines. CDC composed of members of the Management, Principal, representative elected from teaching and non-teaching staff, Secretary of student Council. College Development Committee gives guidance on strategic development and its implementation methodology. Principal, Dean Administration and Registrar looks after the overall administrative functions of the institute. Principal, Dean Academics and Heads of department hold regular meetings to discuss on various academic initiatives and issues. For smooth administrative and academic functions, Institute formed various committees with its roles and responsibilities, in facilitating the decentralization policy. 1 Training and Placement cell Training and Placement cell works in coordination with TP coordinator. Training and Placement cell takes numerous initiatives to

enhance Placement opportunities of students and emphasize on industry ready candidates. Training and placement cell functions with decentralization of responsibilities percolated from faculty to Management. The nature of roles and responsibilities towards strengthening of TP activities is as follows:

Department Coordinator Training and Placement coordinator Training and Placement officer Head of Departments Principal Management The efforts exerted by each individual leads to the decentralization and participative involvement of all. Training and Placement cell is well supported and motivated by the management. Management takes consistent reviews of TP cell as it helps in strengthening the placement as well as Industry Institute Interaction through participative involvement.

2. Tutor System • The Institute has Tutor system (Mentor Mentee) wherein central tutor coordinator is appointed. He is assisted by the department tutor cocoordinator. Tutor mentor system constitutes assigning 15 or 20 students per tutor in their first year of degree course and continues to be his tutor till completion of degree. Tutor hand book is to be filled by student under the guidance of tutor. The Tutor handbook contains information like personal details, academic record, achievements, awards, participation in extra and co curricular activities. Tutor analyses the student's past academic record and achievements. Assessment of student based on this record and observation is noted by tutor for future references. Tutor mentor meeting is held every fortnight. • It also helps in identifying slow learners advanced learners. Subject teacher with the help of tutor arranged the remedial classes, library hours, exam paper solutions, and practical assignments. Monitoring of slow learners continues till his progress is seen academically. Advance learners are encouraged, promoted and motivated to participate in co curricular and extracurricular activities. The progress of slow and advanced learners are monitored and communicated to the Head of the Department for necessary action.

6.1.2 – Does the institution have a Management Information System (MIS)?

Yes

## 6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Admission of Students	Students secure admissions in institute through CAP rounds governed by DTE.
Industry Interaction / Collaboration	<ul style="list-style-type: none"> <li>• Active placement Cell ensures maximum recruitments in industry and industry institute interactions held at regular intervals.</li> <li>• Industry Experts are invited to take workshops for aspiring students.</li> <li>• "Alumni Meet" is held every year for exchanging innovative ideas and information.</li> <li>• To strengthen Industry Institute interaction, experts with diverse experience are invited to deliver a lecture on recent trends and developments.</li> <li>• Leading with a vision of providing industry ready candidates, the institute has taken major initiative to seek cooperation from various industrial organizations from variety of sectors, ranging from</li> </ul>

	<p>multinational (MNCs) to small scale industries (SMIs). • To cope up with corporate challenges, institute has signed MOUs with local and • multinational industries to provide better platform to all the candidates in terms of Internship, Sponsored Projects, Industrial Visit, Preplacement Offers and Final Placements.</p>
<p>Human Resource Management</p>	<p>• Study Leaves for faculties pursuing M.Phil./Ph.D. • Necessary Increments are given at various levels. 1. Industry Interaction / Collaboration • Active placement Cell ensures maximum recruitments in industry and industry institute interactions held at regular intervals. • Industry Experts are invited to take workshops for aspiring students. • "Alumni Meet" is held every year for exchanging innovative ideas and information. • To strengthen Industry-Institute interaction, experts with diverse experience are invited to deliver a lecture on recent trends and developments. • Leading with a vision of providing industry-ready candidates, the institute has taken major initiative to seek cooperation from various industrial organizations from variety of sectors, ranging from multinational (MNCs) to small scale industries (SMIs). • To cope up with corporate challenges, institute has signed MOUs with local and • multinational industries to provide better platform to all the candidates in terms of Internship, Sponsored Projects, Industrial Visit, Pre-placement Offers and Final Placements. 2. Admission of Students • Students secure admissions in institute through CAP rounds governed by DTE.</p>
<p>Library, ICT and Physical Infrastructure / Instrumentation</p>	<p>• Advanced laboratory facilities and updated books and well stocked library is available. • ICT based instruments and computers are purchased and used for computer Labs. • College provides 24X7 Internet and Wi-Fi connections along with CCTV surveillance. Institute continuously strives to create and maintain the state of the art infrastructure facilities catering to the current and future needs of the students. The institute has policies and procedures to build the infrastructure to meet the standards</p>

and norms set by AICTE and SPPU. Institute has a campus area of 11.039 acres with 24363.03 Sq. m. of built up area. The institute has 13327.64 Sq. m instructional area, 1697.42 Sq. m administrative area and 2051.08 sq. m amenities area. Total 40 class rooms with proper lighting, seating space and ventilation with LCD projector and LAN/Wi-Fi facilities, 10 Tutorial rooms, 66 laboratories equipped with good quality equipments are available. Institute has total 541 personnel computers with adequate student computer ratio with separate computer centre. Workshop with area 1015 Sq. m and three well designed seminar halls equipped with modern audio visual system is available. Institute Library and reading room of area 757 Sq. m. is incorporated with digital library along with OPAC to get access to e- learning resources. Total 20614 books, 78 Journals/Magazines and 1750 CDs and DVDs are accessible in library. The institute has safe drinking water facility through installation of R.O plant. Two playgrounds of area 28275Sq.m are available in campus for outdoor games. The institute has a facility of indoor Gym. Uninterrupted electricity supply is ensured in the campus with the help of an electrical generator and many inverters and UPS systems. Mass Transport facility is provided to the student to reach college from city.

Research and Development

To endorse the research culture, the Institute has taken the initiatives to develop the research facility in the upcoming five years to match the R D requisite at par with the top Institutions in the country. To accelerate the RD activities, separate RD cell is formed headed by Dean RD, with allocation of funds for the same. In this direction, the institute has set up an incubation centre and is in the process of developing the advanced laboratory to provide the research facility looking into the requirement of various academic programs. Institute is providing financial support to the faculty members and students for converting their innovative ideas into projects, filing of IPR and the publication of technical/research papers in journals and conferences.

This has resulted in filing of total 62 patents out of which 38 patents are published in last 4 years and good number of publications in journals. • Minor Research Projects by BCUD are supported by college. • University appointed ARC (Academic Research Coordinator) monitors research activities in college. • College provides financial support to present and publish research papers for both faculties and students. • Special duty leaves are granted for attending research conferences. • Workshops on research methodology are conducted at regular intervals.

**Examination and Evaluation**

College appointed College Examination Officers (CEO) ensures smooth conduct of examinations. Different types of evaluation methods are adopted. Transparency is maintained in evaluation process.

**Teaching and Learning**

The Institute is taking continuous efforts to improve learning experience of the students. Institute organizes induction program for newly admitted students to give information about courses, examination pattern, ERP, Tutor System, scholarships etc. For the first year students foundation course is conducted before the start of academics to create awareness and bridge the knowledge gap. Tutor system is introduced for the first year students to mentor students for personal counseling and academic monitoring. Institution has well defined process for monitoring teaching learning process through Academic Monitoring Committee (AMC). An academic calendar is prepared before the commencement of the semester. The calendar outlines the schedule of semester, internal external examination, seminars, annual functions, sport activities, faculty development programs, industrial visit and parent meetings etc. The faculty members prepare the teaching plan and it is approved by AMC and HOD. AMC monitors the implementation of the teaching plan regularly by collecting the syllabus coverage report fortnightly. Remedial classes are conducted to improve the performance of weak students. Library facility with Book bank, departmental Library, e-

learning facilities are provided to students. Add-on programs, value added programs, internship etc. are organized for advanced learners. Institute has adopted modern teaching learning practices with ICT enabled class rooms, spoken tutorial (IITB), Virtual labs etc. Institute has adequate number of Ph.D. and experienced faculties. Institute has encouraging policies for faculty recognition such as Best Tutor award, felicitation of Ph.D. awarded faculties, sponsoring visits to International Universities, financial support for attending conferences and workshops, etc

Curriculum Development

As we are affiliated to the Savitribai Phule Pune University (SPPU) we follow the syllabi revision as prescribed by the Board of Studies (BOS) of different subjects. The curriculum is designed by SPPU to meet the needs of the industry, modern research and social requirements. SPPU has provision of revision and updation in syllabus as per the demand of current needs of the industry and research area. The Institution provides necessary facilities for implementation of the curriculum to convene the Vision, Mission and core values. For effective delivery of the curriculum, the institution has well qualified and experienced team of faculty members. Experienced faculty members of the institution also contribute in designing and developing curriculum at the University level under their respective BOS. To further enrich the curriculum and improving teaching practices the institute supports the faculty members in various ways by providing the necessary resources. The institute provides academic flexibility to the students for selecting electives, which helps them to become competent as per industry needs. Obtaining regular feedback from the stakeholder is the regular the practice followed by the institute to satisfy all curriculum needs. All these feedbacks are analyzed and necessary steps are taken for further improvement in the curriculum. In addition to this institute offers value added programs, add-on programs, summer school training programs and soft skill development programs for providing specialized

training to the students in their respective field.

6.2.2 – Implementation of e-governance in areas of operations:

E-governance area	Details
<p>Planning and Development</p>	<p>Proper Management of Human Resource by ERP covers the following: ERP through intranet covers essential information showcasing magnanimity of the institute. Leave Management, Time Table Management, Load Distribution, Faculty Feedback, Activity Plan, Various days celebration</p>
<p>Administration</p>	<p>Educational ERP has edge over traditional method of institutional management. Cost reduction, accuracy and efficiency are some of main factors that keep ERP solution ahead of traditional methods. However ERP system deals with the complete institutional process and functioning related to academic, admission, registration, examination, finance, HR, course materials, placement, students information, Alumni etc. Staff Registration, Reporting, Transfer, Attendance Process Staff Salary Calculation All Allowance Examination Module Call Log for: 1) System IT Support 2) Transport 3) Electrical Maintenance. Vehicle Management All types of Leave</p>
<p>Finance and Accounts</p>	<p>Faculty TA/DA Bills Staff Salary Calculation Deductions Details Bills for: 1) Daily allowance 2) Petrol allowance 3) Traveling allowance Income Details</p>
<p>Student Admission and Support</p>	<p>A prospective student can get required information about the institute and the detailed procedure about the admission process. Following aspects of admission are normally included in ERP: Information related to About the institute The courses available Information about faculty, placement, infrastructure etc. Fees Module Student Login Online Document Admission Attendance Feedback Admission process Student registration Enrollment System</p>
<p>Examination</p>	<p>Examination is considered as acid test for both student and teachers. Proper evaluation in spread over basis is required to know student's standard of width and depth of knowledge is taught and acquired and cultivated.</p>

Some aspects of examination management are included in ERP are mentioned below: Demo Exam Subject wise Exam Schedule Question Paper Setter Result Preparation Result Analysis.

### 6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Prof.Paresh Vilas Rege	Sport Competition Reg.Fee	NIL	5000
2019	Prof.Hemant R Kulkarni	Paper Presentation in IEE conference RIGA, LATVIA	NIL	28000
2019	Prof.Kamini C Nalawade	Internation Conference at Nutan COE Research	NIL	5000

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6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	Workshop on Future Advancements Applications of Internet of Things	NIL	12/06/2020	14/06/2020	10	Nil
2019	Student Faculty Development Program (SFDP) on Role of Engineer in Uplifting the Industry After Post COVID-19	NIL	11/05/2020	15/05/2020	15	Nil



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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Attended NAAC Awareness Programme for Faculty	1	08/05/2020	14/05/2020	7
Innovation, Entrepreneurship and its Relevance in Industry 4.0 Practices in the Post Covid-19 Situation	1	25/05/2020	29/05/2020	5
One Week Online Faculty Development Program on "OpenFOAM" in association with Spoken Tutorial Project, IIT Bombay	2	25/05/2020	30/05/2020	6
One week STTP on Renewable energy and utilisation	2	26/03/2020	30/03/2020	5
Workshop on Latex	2	23/04/2020	27/04/2020	5
One week online faculty development program on Scilab	2	23/04/2020	27/04/2020	5
7 days FDP for student induction	1	09/12/2019	15/12/2019	7
One Week Online Faculty Development Programme "Joomla"	3	04/05/2020	09/05/2020	6
Faculty awareness	1	04/05/2020	04/05/2020	1

program on outcome base education and NBA accreditation				
FDP on "Role of Engineer in Uplifting Industry"	7	11/05/2020	15/05/2020	5
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
57	106	8	150

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<p>1. Loan Facility from the Institute's Cooperative Credit Society. 2. Lien facility. 3. Women Empowerment Program. 4. Provident Fund 5. Gratuity. 6. Maternity leaves for female. 7. Study Leave, Medical leave, etc. 8. Medical Insurance for Employees. 9. Free Health Checkup camp. 10. Financial support for up gradation of knowledge through QIP/ conferences/ 11. Workshops/STTP/Seminars. 12. Transportation facilities for staff. 13. Emergency service (Ambulance etc.) 14. Superannuation Scheme. 15. Subsidize family and batchmates accommodation for needy staff. 16. Tie up with Hospital. 17. Reorganization of faculty members for achievements felicitation of faculty members after PhD.</p>	<p>1. Loan Facility from the Institute's Cooperative Credit Society. 2. Women Empowerment Program. 3. Provident Fund 4. Maternity leaves for female 5. Medical Insurance for Employees. 6. Free Health Checkup camp. 7. Transportation facilities for staff. 8. Emergency service (Ambulance etc.) 9. Subsidize family and batchmates accommodation for needy staff. 10. Tie up with Hospital.</p>	<p>1. Tutor System 2. Customized ERP system 3. Scholarship to Meritorious students 4. Basic medical facilities provided. 5. Free counseling session with counselor 6. Emergency service (Ambulance etc.) 7. Transportation facilities 8. Earn and Learn Scheme 9. Proficient Student Association</p>

6.4 – Financial Management and Resource Mobilization

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

Institute conducts Internal and External Financial audit every year to ensure financial compliance. Internal audit is conducted by the parent body of Sandip Foundation. It is conducted twice a year. Financial compliance report of

internal audit report is submitted to the Management of Sandip Foundation. The institution is having qualified practicing Chartered Accountant as an external auditor. Statutory financial audit of Institute is conducted in two sessions 1. First in the month of November/ December for period of six months starting from April to September 2. Second in the month of May/ June for the period from October to March. Finalization of account is completed in June and audited statement is prepared in July.

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

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
NIL	0	NIL
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6.4.3 – Total corpus fund generated

0
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## 6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	No	NIL	Yes	IQAC
Administrative	No	NIL	Yes	IQAC

6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

1. Orientation/Induction Program 2. Parents Meet 3. Tutor Interaction (Monthly)

6.5.3 – Development programmes for support staff (at least three)

1. Online Exam Training 2. ERP Training 3. Scholarship Form Filling Training

6.5.4 – Post Accreditation initiative(s) (mention at least three)

1. Various Workshop for students and teachers. 2. Value Added Programs : for students Embedded System and IOT 3. Training programs: for students.

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	Yes
c)ISO certification	No
d)NBA or any other quality audit	No

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	Value addition program on CATIA	09/06/2019	09/06/2019	09/12/2019	120
2019	3D printing workshop	20/09/2019	20/09/2019	22/09/2019	80

2019	Workshop on Gandhi Global Solar Yatra	02/10/2019	02/10/2019	02/10/2019	100
2019	Workshop on "Basics Advanced Java "	17/09/2019	17/09/2019	21/09/2019	60
2020	MECHSUMMIT 2K20	14/02/2020	14/02/2020	15/02/2020	900
2020	Sandipdrishti 2k20	14/02/2020	14/02/2020	15/02/2020	800
2020	One Week Online Training on Android Apps Development	05/04/2020	05/04/2020	10/05/2020	150
2020	Three Days Workshop on "Soft Skills Training".	30/01/2020	30/01/2020	02/02/2020	60
2020	Educational Visit of TE Civil Students at Nilgiribag Water Treatment Plant, Nashik	18/02/2020	18/02/2020	18/02/2020	60
2020	DESIRE 2020 National Level tech fest	14/02/2020	14/02/2020	15/02/2020	1000
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## CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

### 7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Womans Day	08/03/2020	08/03/2020	18	Nil

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
Power requirement met by renewable energy sources 100 kw Total power requirement 100 kw Renewable energy source Solar Renewable energy generated and used 100 kw Energy supplied to the grid.

## 7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	Nil
Provision for lift	No	Nil
Ramp/Rails	Yes	Nil
Braille Software/facilities	Yes	Nil
Rest Rooms	Yes	Nil
Scribes for examination	Yes	Nil
Special skill development for differently abled students	Yes	Nil
Any other similar facility	Yes	Nil

## 7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	1	1	12/09/2019	1	Ganesh Murti Collection	Water pollution	40
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## 7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
NIL	Nil	NIL

## 7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Teachers Day Celebration	05/09/2019	05/09/2019	55
Engineers Day Celebration	18/09/2019	18/09/2019	110
Guru Pournima	28/09/2019	28/09/2019	35
Vaidik Maths Session	23/01/2020	23/01/2020	40
Session on different Carrier Aspects for youngsters in Private, Government Sector and its preparation	10/02/2020	10/02/2020	50

strategy

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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

1. Installation of solar panels 2. Rain water harvesting 3. Recycled waste water used for garden 4. Green landscaping with trees 5. Pedestrian friendly roads, students insisted to use public transport and bicycles.

## 7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Title of the Practice: International Internship 1. Objectives: • To provide an opportunity to work on projects in future technology • To provide International exposure to the students • To develop global employability skills 2. Outcomes of the Training:-Exposure to professional behavior, Better chances of employment, improving problem-solving and critical thinking skills, Certification from the University. The training is offered under the Project Based Learning (PBL) environment. The parameters considered for students' selection for Summer School are Area of Interest and Academic Performance, along with the information about student's participation in value addition programs and co-curricular activities. During the training of 45 days, students work on the selected projects of the training under the guidance of the tutor assigned by the host University and try to complete minimum one project.

Evidence of successes: Summary of the students participated in the Summer school Training is as follows: • 5 students for Technical University, Sofia, Bulgaria (2014) • 19 students for Technical University, Sofia, Bulgaria (2015) • 9 students for Technical University, Sofia, Bulgaria (2016) • 6 students for Athens Information Technology, Greece (2016) • 5 students for Ural Federal University, Russia (2016) • 18 students for Klaipeda State University of Applied Sciences, Lithuania (2017) • 20 students for The Bonch-Bruевич Saint-Petersburg State University of Telecommunications Synergy University, Moscow(2018) • 7 students for Klaipeda State University of Applied Sciences, Lithuania (2019) Total 89 participants are benefited from the training in terms of their projects, publication of papers and placements.

Title of the practice: Intellectual Property Rights (IPR) 1. Objectives of the Practice: • To identify, protect and leverage the rights of IPs that are generated from research, patents and copyrights. • To Provide a fair balance between the rights of inventors/applicants and third parties. 2. The Context: Promote innovation via the reward granted to the inventor. Promote technology diffusion via publication and access to patents documents. Promote competitions through innovation The main IP policy (Part A) presents the generic position of SF. The Intellectual Property Policy relating to Inventions (Part B) refers to patents, designs, designs, trademarks, biological diversity and related rights, while the terms relating to the Intellectual Property Policy (Part C) provide guidance on copyright and rights related. Several modules will be included explaining in detail the threads, the various situations and the documentation required as part of the implementation of this policy, preparation of financial disbursements for patents with the process of registration and presentation of patent proposals. Evidence of success: Because of moral support of the Institute as an improvement in the filing of patents at national level has been observed and to date a total of 95 patents in Indian patents have been filed. The Government of Indias Comptroller General of Patent and Trademark Designs (CGPDTM) has published a national ranking of institutes where the Sandip Institute of Engineering and Management of the Sandip Foundation ranked 8th in 2014-15 and 9th in 2017-18 among the top 10 Indian universities in patent applicants, together with IIT, IISc and some eminent universities.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your

institution website, provide the link

<http://www.siem.sandipfoundation.org/about-siem>

### 7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

The Training and Placement Unit of the Sandip Institute of Engineering and Management has undertaken various initiatives to improve training, placement and internship opportunities for all engineering students by strengthening its mission to excellence at the institute. The Sandip Foundation believes that the placement is the result of quality training. From the first year of engineering, the faculties begin to train students on the basic technical aspects. By continuing with the quality technical program, every effort is made to prepare students for the recruitment process from the second year onwards. Simulated interviews are conducted twice per semester to ensure students present themselves professionally without fear. Thanks to this session, students are also supervised to prepare their professionally adapted profiles. With dedicated training and placement officers (TPO) and excellent support from the departments training-placement coordinator (TPC), students benefit from maximum opportunities. While TPO focuses on the global market The TPC department is committed to making the most of the opportunities of local industries. An effective teaching-learning process ensures the best academic results by helping as many students as possible to meet the eligibility criteria for recruitment. In addition to the regular curriculum, students are also fed into various value-added programs (VAPs) designed to keep students update of current industry market trends for their branch. Experts from academics and industrialists and engineers involved in multitasking are invited to interact to emphasize and explore possible collaboration with the industry. Thanks also to the Symposia and Human Resources Meetings that are taking place. The Sandip Foundation is trusted by many industries such as Mahindra Mahindra, Bosch, Rishabh Instruments, Thyssenkrupp, Kryfs Components, Zensar Technologies, Yazaki Corporation, Eternus Solutions, Technoforce, Prothious, Byju etc. Students are also promoted and motivated to participate in recruiting initiatives elsewhere. With rigorous training and preparation sessions, students have shown significant results in internships over the past 5 years. The Institute has organized job fairs to initiate job opportunities for students. Students from other Maharashtra institutions were invited to participate in the Quality Job Fair. About 300 jobs were offered to students from various branches. Leading with a vision of providing industry-ready candidates, the institute has taken an important step to seek the cooperation of various industrial organizations from a variety of sectors, ranging from multinationals (MNCs) to small-scale industries (SMI ). To address business challenges, the institute has signed MOUs with local and multinational industries to provide a better platform for all applicants in terms of internships, sponsored projects, industry visits, pre-placement offers and final placements. The Institute has taken a step forward to gain collaboration with the major giants in India. Sandip Foundation, leader with Vision - to be the best - is creating every year a benchmark in placements in personnel management and quality care.

Provide the weblink of the institution

<http://www.siem.sandipfoundation.org/about-siem>

### 8.Future Plans of Actions for Next Academic Year

Following is the Future Plan of action for next academic year: To make preparations to secure NAAC accreditation with "A" Grade. In order to pursue for said NAAC accreditation, and to ensure the quality improvement And assurance in

the institution, following initiatives will be undertaken for different Components of the system: Faculty Development: 1. To assimilate and retain competent and skilled faculties with high individual gains and Institutional returns. 2. To identify the elemental and inherent skills of faculties and map them into various Committees for productive outcomes like research, consultancy, administration etc. 3. To invigorate faculty in Skill development programs through participation in seminar, Conferences, STTP, workshops etc. of National/International recognition. 4. To facilitate the vital habitat for initiating Professional memberships through various Industry and research bodies so as to enhance Industry Institute Interaction for Individual's growth. 5. To motivate the faculties for faculty up gradation. Research Innovation: 1. To promote a research hub facilitating Research Laboratories in collaboration with various industries covering heterogeneous research areas. 2. To expose the inhouse and collaborative research through National/International Footprints such as IPR, Research publications, Consultancy etc. 3. Provide most competent staff and excellent support facilities like laboratory, library and internet required for good education on a continuous basis. 4 .To undertake goal oriented research, competitive and relevant to commercial as well as societal benefits. 5. To invite significant number of persons from industry from India and abroad for collaboration and promote Industry Institute Partnership. Student Development: 1.To incorporate the culture of project based, participative and experimental learning amongst students, to identify the gaps in curriculum and bridge it through Value Addition Programs (VAP). 2. To toil for mock preparation for recruitment and process and organise on regular basis through assessment, GDs, and PIs. 3. To form and to operate various students skills and activity clubs for co curricular and extracurricular development. 4. To provide remedial mentoring facilities for overall growth. 5. Making use of MOODLE software for making learning resources available to students. Entrepreneurship: 1. To act as an institutional mechanism for providing various services including information on all aspects of enterprise building to budding science and technology entrepreneurs. 2. To create and nurture the Entrepreneurial Ecosystem in the institution and other institutions in the nearby territory to promote the objectives of various National, State level, Regional initiatives. Infrastructure Development: 1. To deploy ICT tools in every classroom for enhancement of teaching learning process towards Project based learning. 2. To use and promote Free and Open source software in Education (FOSSE) tools recommended by various governing committees and eminent institutions. 3. To ensure girls and boys hostels with all essential facilities like centralized dining, Green Gym, Indoor Games etc. 4. To develop playgrounds for major outdoor games like Cricket Football, Volleyball, Hockey etc. 5. To ensure optimum utilization and maintenance of infrastructure. Placement: 1. To map students inclination for placements, higher studies and entrepreneurship. 2. To sharpen Employability Skills of students. 3. To leverage networking and collaboration with Industry.