Yearly Status Report - 2019-2020

Part A	
Data of the Institution	
1. Name of the Institution	**SIES GRADUATE SCHOOL OF TECHNOLOGY**
Name of the head of the Institution	**Dr. Atul N Kemkar**
Designation	**Principal(in-charge)**
Does the Institution function from own campus	**Yes**
Phone no/Alternate Phone no.	**022-61082402**
Mobile no.	**9819150392**
Registered Email	**principal@siesgst.ac.in**
Alternate Email	**principalgst@sies.edu.in**
Address	**Sri Chandrasekharendra Saraswthy Vidypuram, Plot No 1-C,D & E, Sector 05, Nerul, Navi Mumbai - 400706**
City/Town	**Navi Mumbai**
State/UT	**Maharashtra**
Pincode	**400706**

2. Institutional Status

Affiliated / Constituent	**Affiliated**
Type of Institution	**Co-education**
Location	**Urban**
Financial Status	**private**
Name of the IQAC co-ordinator/Director	**Prof. Leena Ladge**
Phone no/Alternate Phone no.	**02261082402**
Mobile no.	**9867801816**
Registered Email	**iqac@siesgst.ac.in**
Alternate Email	**principal@siesgst.ac.in**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	http://www.siesgst.edu.in/topbar/aqar.php

4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	http://www.siesgst.edu.in/academics/acad_cal.php

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	**B++**	**2.99**	**2018**	**16-Aug-2018**	**16-Aug-2023**

6. Date of Establishment of IQAC	**21-Apr-2017**

7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
Campus Recruitment	**13-Jul-2019**	**40**

Training for BE (All Branches) conducted by T & P Cell	8	
Student Orientation by Tata Consultancy Services -	25-Jul-2019 1	178
Induction Programme conducted for First Year Engineering students	07-Aug-2019 5	320
The session on Faculty Handbook Updation by prof. Prasad Iyer	19-Aug-2019 1	53
One Day Faculty Development Program by Tata Consultancy Services on 1. Experiential Learning, 2. Imporatnce of Automation in IT Sector, 3. SAP as an ERP & SAP HANA- in Memory Relational Database Mangement System, 4. Ethics in Academia & Business	19-Aug-2019 1	5
Department of Printing & Packaging Technology hosted the prestigious Idealliance South Asia/India/MENA G7 Expert Certification training. One faculty Prof. Gaurav Fasate was deputed from the PPT Department.	24-Aug-2019 3	1
IEEE - ASPP e-journals training session by Mr. G K Upadhayaya from EBSCO India Pvt. Ltd, conducted.	29-Aug-2019 1	20
Workshop on Python Programming, organized by CE dept.	31-Aug-2019 1	10
One Week AICTE ISTE Approved STTP on Cloud Computing and High Performance Computing by CE Dept	09-Dec-2019 6	17
One week STTP on Antennas and RF Components Design, Fabrication and Testing by Dept of EXTC	16-Dec-2019 5	14
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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
Dr.Atul Kemkar	Department Of Science Technology	Department Of Science & Technology	2020 730	392700
Dr.Preeti Hemnani	Minor Research Grant	University of Mumbai	2020 365	20000
Ms.Sonal Hutke	Minor Research Grant	University of Mumbai	2020 365	20000
Ujwala Ravale	Minor Research Grant	University of Mumbai	2020 365	25000
Prachi Shahane	Minor Research Grant	University of Mumbai	2020 365	25000
Dr. Rajesh Kadu	Minor Research Grant	University of Mumbai	2020 365	25000
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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 :	4
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	[View File](#)
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	Yes
If yes, mention the amount	75000
Year	2020

12. Significant contributions made by IQAC during the current year(maximum five bullets)

A session on NBA requirement and PO attainment calculation methodology, conducted by Dr. Abhay Wayal, VJTI, Mumbai on 23122019

Revamping of College Website
Preparation of Internship Policy based on AICTE MHRD
Creation of repository of Video Lectures by faculty members
Activities and sessions conducted for strengthening innovation ecosystem and startup activities

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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

Plan of Action	Achivements/Outcomes
To conduct at least one training session for industry by the faculty members of each department.	Only dept of MECH conducted these training sessions for industry.
To carry out at least one consultancy project with industry and/or one in house development of modules as a solution to institute requirements.	Except Dept. of EXTC, other core departments carried out these types of projects.
To conduct at least two approved technical audit courses by each department and two non-technical audit courses by the institute	Minimum two courses conducted in all departments except PPT and five nontechnical audit courses were conducted by the Institute.
To qualify for platinum category grade in AICTECII survey.	Institute Qualified into Gold Category in AICTE CII Survey
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14. Whether AQAR was placed before statutory body ?	No
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	Yes
Date of Visit	04-Jul-2018
16. Whether institutional data submitted to AISHE:	Yes
Year of Submission	2020
Date of Submission	28-Feb-2020

17. Does the Institution have Management Information System ?	Yes
If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)	The institute has its own ERP system for administrative academic operations. The following modules are functional: (i) Admission: Students enrol on ERP and they have unique ID for the course. (ii) Faculty roll / attendance: The biometric attendance is integrated with ERP for salary purpose. (iii) Faculty ERP: Each faculty has own login to access and update profile, leave, teaching plan, student attendance. (iv) Maintenance applications are forwarded by faculty through SRM module.

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

The South Indian Education Society's Graduate School of Technology (SIESGST) affiliated to University of Mumbai (UoM) takes adequate and timely measures to ensure effective curriculum delivery. The curriculum delivery is planned, implemented, enriched and monitored as per the following steps. 1. Academic Planning: The Institute follows a well planned documented process adhering to the syllabus prescribed by the UoM. The heads of the departments (HoDs) calculate the workload every semester based on the syllabus and the student strength. The electives are offered to the students based on their and current industry trends. Depending on the expertise, experience and opted choices the subjects are allocated. The Principal proposes the academic calendar following the University schedule which is approved by the academic council. The same is distributed to the faculty members prior to the commencement of semester. 2. Academic Plan Implementation: The Principal and academic council are responsible for implementation of academic activities. To aid in this process, a faculty handbook is maintained which consists of session plan, individual timetable, academic calendar, list of text and reference books, list of experiments and assignments, attendance for theory/tutorials/practical, continuous evaluation of student, mentee meeting records etc. The faculty handbooks are regularly reviewed by the respective HoDs and Principal. Each faculty member maintains a course file consisting of syllabus, extended syllabus copy, course notes, laboratory manual, university question papers, course outcomes, mapping of course outcomes with program outcomes and program specific outcomes. 3.Curriculum Enrichment: The gaps are identified for all the courses belonging to the program. The gap may be a prerequisite gap, course gap, semester gap or program gap. The proposed gaps are discussed in the Departmental Advisory Board (DAB) meeting so as to bridge them with relevant guest lectures, seminars, workshops, value added courses, industrial visits, implementing projects etc. 4. Monitoring effectiveness of student learning: The students' learning is monitored by various ways that include prerequisite tests, quizzes, MCQs, assignments, poster making competitions etc In addition to traditional classroom teaching, faculty members also use various ICT tools and active learning strategies. The process is also supplemented with an online

learning management system to make it more effective. A mentor-mentee scheme is implemented to guide the students so that they strengthen their academics as well as co-curricular and extracurricular skills. 5. Effective Communication: All notifications are issued to the students through their official email ID's (earlier GSuite and now Microsoft 365). 6. Monitoring implementation of Curriculum delivery & Feedback: Syllabus coverage review at each department is performed through the faculty handbooks by respective HoDs fortnightly and monthly by the Principal. Timely corrective and preventive action is taken, if there is any deviation. Feedback from students is obtained for faculty, curriculum and infrastructure. The Principal and the Managing council of the SIES take the necessary action based on the feedback. SIESGST, thus ensures effective, up-to-date curriculum planning and delivery. The Institute has initiated an ERP system to improvise the system.

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
Enhancing Professional Communication	NA	29/06/2020	10	Employability	Yes
Universal Human Values	NA	29/06/2020	10	Employability and entrepreneurship	Yes
Embedded System Design Using Arduino Uno	NA	17/12/2019	15	Employability	Yes
Embedded system-Arm Mbed and Node McU	NA	06/12/2019	15	Employability	Yes
FPGA design using VHDL	NA	10/12/2019	15	Employability	Yes
Introduction to Arduino, IoT and Interfacing using Simulator software	NA	15/06/2020	11	Employability	Yes
Machine Learning and Image Processing using Python	NA	15/06/2020	12	Employability	Yes
Hands on training on C, C and Java coding skills	NA	15/06/2020	10	Employability	Yes

Datascience with R	NA	22/06/2020	6	Employability	Yes
BlockChain Technology	NA	15/06/2020	6	Employability	Yes
Network Security Ethical Hacking	NA	16/12/2019	6	Employability	Yes
Ethical Hacking Security	NA	15/06/2020	6	Employability	Yes
Hands on Training on Introduction to R	NA	16/12/2019	6	Employability	Yes
Advanced HTML and web technology	NA	22/06/2020	5	Employability	Yes
Advance C	NA	22/06/2020	5	Employability	Yes
Advanced web technology	NA	16/12/2019	6	Employability	Yes
Software Design	NA	16/12/2019	6	Employability	Yes
Skill Development Training	NA	15/06/2020	10	Employability	Yes
Data Mining and Analytics	NA	15/06/2020	10	Employability	Yes
CCNA Routing and Switching	NA	27/06/2019	5	Employability	Yes
Heat transfer and fluid flow analysis using Ansys Fluent	NA	22/06/2020	10	Employability	Yes
Industrial drawing and modeling using AutoCAD and Solid works	NA	22/06/2020	10	Employability	Yes
Modelling Robot Kinematics using Python Programming	NA	22/06/2020	10	Employability	Yes

NPTEL courses under NPTEL Study Chapter	NA	01/07/2019	20	Employability and entrepreneurship	Yes
NPTEL courses under NPTEL Study Chapter	NA	01/01/2020	20	Employability and entrepreneurship	Yes
Coursera	NA	21/05/2020	20	Employability and entrepreneurship	Yes
Satellite Photogrammetry	NA	26/06/2020	5	Employability	Yes

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
BE	Mechanical Engineering	01/01/2020
BE	Mechanical Engineering	01/07/2019
BE	Printing & Packaging Technology	01/01/2020
BE	Printing & Packaging Technology	01/07/2019
BE	Information Technology	01/01/2020
BE	Information Technology	01/07/2019
BE	Electronics & Telecommunication Engineering	01/01/2020
BE	Electronics & Telecommunication Engineering	01/07/2019
BE	Computer Engineering	01/01/2020
BE	Computer Engineering	01/07/2019
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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	Computer Engineering	01/07/2019
BE	Electronics & Telecommunication Engineering	01/07/2019
BE	Information Technology	01/07/2019
BE	Printing & Packaging Technology	01/07/2019

BE	Mechanical Engineering	01/07/2019

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

	Certificate	Diploma Course
Number of Students	1107	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
Introduction to Technical Session31/	31/07/2020	38
WIE Seminar	08/01/2019	75
Python Workshop	07/08/2019	50
Digital Marketing Workshop	08/10/2019	60
Amazon Alexa Workshop	31/08/2019	63
Workshop on Design and Testing of Microwave Components using IE3D	31/08/2019	23
Workshop on Design and Testing of Microwave Components using IE3D	07/09/2019	24
Phoenix 1.0 IEEE Congress Participation	11/09/2019	13
Robotics Workshop	14/09/2019	4
The Communicator - Soft skill Enhancement Workshop	16/09/2019	110
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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	Computer Engineering	105
BE	Electronics & Telecommunication Engineering	106
BE	Information Technology	53
BE	Printing & Packaging Technology	46
BE	Mechanical Engineering	34
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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

The various kinds of feedback are collected, analysed and appropriate actions are taken to improvise the system. The Institute has initiated an ERP system to ensure the effectiveness of the tasks carried by various stakeholders. The feedback on teaching learning is collected twice in a semester/ at the end of the semester. The general assessment points of the feedback are based on questions such as adequacy of syllabus, assessment / evaluation, satisfaction about teaching methodology, Teachers approachability towards students, Teachers ability to teach subject and control the class, syllabus coverage, organisation of lectures, use of modern tools of Pedagogy etc. on a grade of 5 scale with number five (5) meaning excellent and one (1) meaning poor performance. The Institute maintains a policy that if a teacher has average grade less than 2.5 he/she is called by the Principal and is informed about his/her performance for that particular course. The teachers are accordingly instructed by the authorities to improve their performances. The feedback on the teaching learning process is also collected from the parents during the parent teachers meet. Separate registers are maintained department wise to note the remarks from the parents so as to take corrective actions. Alumni Feedback is conducted whenever an alumni meet is organised in the Institute during the academic year. The feedback from alumni is drawn for evaluating subject knowledge gained through the program, progress of alumni in their chosen career after graduation, impact of training, motivation at Institute, impact of training on personality, maturity, social skills, ability to make decisions, ability to manage finances and presentation skills at the workplace. The Employers feedback highlights evaluation parameters in the form of subject knowledge, attitude, behaviour, regularity, punctuality, maturity, motivation, creativity, presentation skills and ability to get along with others. The Analysis of this feedback helps the institute in reframing the course content along with necessary skill development training. It also helps in determining overall employability of our students at various levels. Feedbacks are collected on the guests lectures, expert talks, industrial visits, the student development programs and internships carried at the Institute level. The impact analysis on various feedbacks and appropriate actions helps to improve the system. Suggestion boxes are made available in the campus to collect any kind of issues and grievances from students, staff and faculty. The grievance redressal form is also available on the Institute website.

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	Electronics & Telecommunication Engg.	120	365	99
BE	Computer Engineering	90	365	97
BE	Information	60	365	61

		Technology			
BE	Printing & Packaging Technology	60	365	23
BE	Mechanical Engineering	60	365	56
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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	1683	Nill	80	Nill	Nill

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	Numberof smart classrooms	E-resources and techniques used
80	80	9	26	26	4
View File of ICT Tools and resources					
View File of E-resources and techniques used					

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

Student Mentoring System is available in the Institution. Details of the system: A mentors knowledge, experience, encouragement and skills offers the learner necessary guidance and advice. Each faculty mentors a group of 15 to 20 students. Objectives of Mentoring: 1.Create a positive counselling relationship and environment for open communication. 2. Provide direction to mentee, in terms of career guidance, goal setting and helping them overcome academic stress. 3. Monitoring overall progress of the Mentees. 4. Motivating mentees to participate in various curricular, co curricular and extra curricular activities. Responsibilities: The mentor performs the following functions: 1. Meet the mentees at regular intervals of time. 2. Continuously monitor, counsel, guide and motivate the students in all academic / non academic matters. 3. Contact parents/guardians, whenever the situation demands. 4. Advise students in their career development/ provide professional guidance. In some situations, the mentees are directly counselled by the higher authorities / professional counselor. 5. Maintain a detailed progress record of the student (Mentee Data Sheets). 6. Maintain a clear concise record of all discussions with students.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1683	80	1:21

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
78	80	Nill	2	20

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
Nill	NA	Nill	NA

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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 semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BE	321124510	V / TE (CHOICE)	27/11/2019	21/01/2020
BE	321124510	IV /SE (CHOICE)	19/12/2019	18/02/2020
BE	321124510	III / SE (CHOICE)	28/11/2019	21/01/2020
BE	321124510	VI TE (CHOICE)	18/12/2019	21/01/2020
BE	321137210	III / SE (CHOICE)	28/11/2019	27/01/2020
BE	321137210	IV / SE (CHOICE)	19/12/2019	27/01/2020
BE	321137210	V / TE (CHOICE)	27/11/2019	27/01/2020
BE	321124610	III / SE (CBGS)	28/11/2019	21/01/2020
BE	321124610	IV / SE (CBGS)	19/12/2019	21/01/2020
BE	321161210	III / SE (CBGS)	28/11/2019	31/01/2020

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

Institute strives to continually improve the efficiency and effectiveness in assessment of Teaching, Learning and Evaluation Processes. Institute follows University of Mumbai (UoM) guidelines related to the internal evaluation system. To ensure improvement in the students quality the following reforms/changes in CIE are implemented: I) Reforms in Internal Assessment (IA) test are set by incorporating 1) multiple modes of notification about the test 2) audit to ask thought provoking questions on the set questions in the test 3) centralised internal assessment process to achieve smoothness and transparency in conduction of IA 4) Provide solution key to achieve standardization in evaluation that help students to introspect, self evaluate and prepare better for exams. 5) Notifications to IA Test failures to create awareness amongst IA test failures and improve the results. II) Reforms in Term Work set by

incorporating 1) evaluation of the laboratory experiments attainment of the desired Course Outcomes. 2) Including Problem Based Learning experiments in the course and including one extra experiment which is not listed in the syllabus to enhance problem solving abilities of the students. 3) Selecting one project idea out of three project ideas presented by the students in front of a panel of experts and regularly monitoring through mid and end semester project presentation. 4) encouraging students to carry out innovative projects and publish in renowned journals and conferences.

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

The Institute academic calendar is prepared by following the University of Mumbai (UoM) guidelines and includes the planning for the conduct of examinations. As per the choice based grading system (CBCS) of UoM the two internal assessment (IA) tests are conducted in the semester each with a weightage of 20 and remaining weightage of 80 is covered by the end semester examination. The IA-1 is based on 40 percent of the syllabus and IA-2 on the next 40 percent of the syllabus. The IA-1 is conducted within 45 days of college reopening and the IA-2 is conducted after the last instructional day. The solution of the tests along with question wise marking scheme is displayed on notice board or shared through email or faculty website within an hour after the test to maintain transparency and uniformity in the assessment of the internal tests. The evaluated test booklets are shown to the students and individual discussion/clarification with a student on the paper is taken up. Income of the courses, the term work is a part of continuous internal assessment where students are evaluated on the basis of their performance in different activities throughout the semester. With these systems in place, SIESGST very well exhibits transparency in the mechanism of internal assessment and robustness in terms of frequency and variety.

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://siesgst.edu.in/topbar/All_dept_cos-compressed.pdf

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
321137210	BE	Electronics and Telecommunication	138	137	99
321124510	BE	Computer Engineering	118	118	100
321124610	BE	Information Technology	76	76	100
321184110	BE	Printing and Packaging Technology	46	46	100
321161210	BE	Mechanical	73	73	100

		Engineering.		
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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.siesgst.edu.in/topbar/Student_satisfaction_survey_graphical_report.pdf

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 agency	Total grant sanctioned	Amount received during the year
Minor Projects	365	University of Mumbai	0.4	0
Minor Projects	365	University of Mumbai	0.6	0
Major Projects	730	Department Of Science Technology	3.92	0
Minor Projects	365	University of Mumbai	0.25	0
Industry sponsored Projects	120	Electronic Enterprises (i) pvt. Ltd.	1	0
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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
AWARENESS/MENTORING SESSION ON IPR IP MANAGEMENT	MHRD_IIC_SIESGST MECH.ENGG.DEPT.	18/01/2020
Online Session 17 : Interaction with Student Innovators and Entrepreneurs from Smart India Hackathon	MHRD_IIC_SIESGST	22/05/2020
Online Session 16: Frugal Innovations and Social Entrepreneurship	MHRD_IIC_SIESGST	21/05/2020
Online Session 15: Use of Market Data, Application of Marketing Research Tools Methodology -Advance Level	MHRD_IIC_SIESGST	20/05/2020
Online Session 14: Idea, business model and	MHRD_IIC_SIESGST	19/05/2020

business plan		
Online Session 13: Innovation Risk Diagnostic — Product Innovation Rubric (PIR)	MHRD_IIC_SIESGST	15/05/2020
Online Session 12 : Understanding Role and Application of Marketing Research at Idea to StartUp Stage	MHRD_IIC_SIESGST	14/05/2020
Online Session 11: Innovating Self- Screen and Identify right opportunities	MHRD_IIC_SIESGST	13/05/2020
Online Session 10: Legal and Ethical Steps – Productive Entrepreneurship and StartUp	MHRD_IIC_SIESGST	12/05/2020
Online Session 9: Understanding Angel and Venture Capital Funding	MHRD_IIC_SIESGST	08/05/2020
Online Session 8: Intellectual Property (IP) Management at Early Stage of Innovation and Start-ups	MHRD_IIC_SIESGST	07/05/2020
Online Session 7 :How to Identify Right Problem and Solution using the Double Diamond Approach in Design	MHRD_IIC_SIESGST	06/05/2020
Online Session 6: Entrepreneurship, Business Idea and Business Model Canvas (by EDII)	MHRD_IIC_SIESGST	05/05/2020
Online Session 5 : Hangout with Successful Startup Founder.	MHRD_IIC_SIESGST	04/05/2020
Online Session 4: Role of Network Enablers in driving IE in HEIs - A Case of TiE, India	MHRD_IIC_SIESGST	01/05/2020
Online Session 3: Hangout with Emerging Innovator Entrepreneurs Supported through MIC AICTE	MHRD_IIC_SIESGST	30/04/2020
Online Session 2: Role and Importance of Pre-Incubators, Incubators and Accelerators in HEIs.	MHRD_IIC_SIESGST	29/04/2020

Online Session 1: National Innovation and Startup Policy for Students and Faculty 2019	MHRD_IIC_SIESGST	28/04/2020
Online Leadership Talk Series with Mr. Abhishek Suryawanshi	MHRD_IIC_SIESGST	07/04/2020
Ideation '19	EDC and IETE Student forum SIESGST	15/02/2020
ENTREPRENEURSHIP AWARENESS CAMP (EAC)'19	EDC SIESGST	27/09/2019
Redbull Basement University Challenge19	EDC SIESGST	19/10/2019
BIZENCE 2020	EDC SIESGST	22/02/2020
INTERNAL HACKATHON FOR SMART INDIA HACKATHON 2020	MHRD_IIC_SIESGST	18/01/2020
DICE BOOT CAMP	EDC and IETE Student forum SIESGST	05/10/2019

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
Deep Blue Project Competition	V.Karthikraj Senthil Thanneermalai Shwetha Sanjay Shilewant Thirumalainambi Perumal Yadav	Mastek LTD.	16/02/2020	Technical (Second Runners up 25,000 cash prize)
Bio-leather: A Flexible Packaging Material as an alternative for Plastics	Ms. Shruti Belose and Ms. Aarti Desai	TERRE Policy Centre, instituted the scheme for Dr. A.P.J Abdul Kalam Young Research Fellowship	20/05/2020	young Researchers from India with extraordinary promise and creativity who have made notable research contributions in the field of Environment protection
ARAVALLI TERRAIN VEHICLE CHAMPIONSHIP	Team Turbocrafters SAE Team SIESGST	ATVC (organised in Vadodara, Gujrat)	26/01/2020	Suspension Traction, Cost Event, Mega Marketing Round (All India rank 1) , Price money of 1.29 lakhs
SPIT Hackathon 2020	Akhil Nair Rushikesh Shinde Kush	SPIT Mumbai	01/02/2020	Technical

Shah Sunil Poojari					
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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
No Data Entered/Not Applicable !!!					
No file uploaded.					

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
EXTC	**1**

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)
National	**Mechanical Engineering**	**1**	**1**
International	**Computer Engineering**	**11**	**4.8**
International	**Electronics and Telecommunication**	**2**	**1**
International	**Information Technology**	**3**	**1**
International	**Mechanical Engineering**	**9**	**1**
[View File](#)			

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
Electronics and Telecommunication	**8**
Computer Engineering	**12**
Information Technology	**4**
Mechanical Engineering	**3**
Humanities and Applied Science	**3**
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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	Number of citations excluding self

					the publication	citation
An Integrated Lean, Green and Six Sigma strategies : a systematic literature review and directions for future research	Lokpriya Gaikwad	TQM Journal - Emerald	2019	0	SIES Graduate School of Technology	12
IoT based Smart Kitchen System	Shaikh Bushra	Journal of Interdisciplinary Research	2020	0	SIES Graduate School of Technology	Nill
Preserving Privacy of Data in Distributed Systems Using Homomorphic Encryption	Kalyani Pampattiwar,Masooda Modak and Namrata Patel	Advanced Computing and Intelligent Engineering Proceedings of ICACIE 2019, Volume 1,Springer	2019	0	SIES Graduate School of Technology	Nill
Novel Hybrid Security Model in Cryptography	Ujwala Ravale	International Journal of Research and Analytical Reviews (IJRAR)	2020	0	SIES Graduate School of Technology	Nill
Improving Network Lifetime and Speed for 6LoWPAN Networks Using Machine Learning	Shubhangi Kharche	International Journal of Intelligent Systems Technologies and Applications	2019	0	SIES Graduate School of Technology	Nill
			[View File](#)			

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

Adaptive CSLBP compressed image hashing	Varsha Patil	International Journal of Electrical Computer Engineering	2019	4	Nill	SIES Graduate School of Technology
Design of Probe for NMR/NQR detection	Preeti Hemnani	International Journal of Electrical Computer Engineering	2019	3	Nill	SIES Graduate School of Technology
Improving Network Lifetime and Speed for 6LoWPAN Networks Using Machine Learning	Shubhangi Kharche	International Journal of Intelligent Systems Technologies and Applications	2019	4	Nill	SIES Graduate School of Technology
An Integrated Lean, Green and Six Sigma strategies : a systematic literature review and directions for future research	Lokpriya Gaikwad	TQM Journal - Emerald	2019	6	Nill	SPCE
Critical review on pull-in of aluminium in continuous casting	Dr. Rupendra Nehete	INTERNATIONAL JOURNAL OF SCIENTIFIC TECHNOLOGY RESEARCH	2019	6	Nill	SIES Graduate School of Technology
Novel Hybrid Security Model in Cryptography	Ujwala Ravale	International Journal of Research and Analytical Reviews (IJRAR)	2020	3	Nill	SIES Graduate School of Technology
Text Mining in Healthcare	Pranita Mahajan	International Journal of Innovative	2019	1	Nill	SIES Graduate School of Technology

	Technology and Exploring Engineering(TM)				
			[View File](#)		

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

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	28	49	9	7
Presented papers	35	1	Nill	Nill
Resource persons	1	Nill	Nill	Nill
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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
Details Attached	NSS/UOM/Community	79	1440
[View File](#)			

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 Benefited
Details Attached	Details Attached	Details Attached	843
[View File](#)			

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 activites	Number of students participated in such activites
Details Attached	Details Attached	Details Attached	79	1440
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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
One day FDP on Experimental Learning, Automation, Machine Learning Business Ethics	Varsha Patil	TCS	1

Industrial visit of Third year students	TECE Students (48)+1 FACULTYY	Reliance jio	1
Industrial visit of Third year students	TECE Students (51)+3 FACULTYY	CDAC Bangalore	5
Equipment received from IEEE	BE Students	Received Kits worth Rs.50,000 from MTT-S chapter IEEE	365
Industrial visit	TE IT students	Reliance Jio Infocom Limited, Mumbai,	1
Orientation Program on "DevOps Lab"	Faculty members of different college of Mumbai university	University of Mumbai	1
Training	Marisuresh S Mudaliar	Sponsored by Task Industries	14
Faculty Exchange	Prof. Sandesh Ramteke	Institute of Chemical Technology (UDCT - Mumbai)	80
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 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
Internship	Internship	JP Morgan, Mumbai	23/06/2020	23/07/2020	1
Internship	Internship	Cloud Counselage	01/03/2020	31/07/2020	9
Internship	Internship	Trivia Softwares	04/06/2019	04/07/2019	1
Internship	Internship	Indian Oil Corporation	02/12/2019	03/01/2020	1
Internship	Internship	BARC	05/06/2019	20/07/2019	2
[View File](#)					

 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
ESKO Graphics Pvt Ltd	03/01/2020	latest Softwares and licences for ArtiosCAD,	72

		Deskpack, Studio Designer and Visualizer.	
M/s Bombay Master Printers' Association (BMPA)	26/09/2019	Annual Scholarship of Rs. 1,00,000/- to be given to two outstanding girl students from PPT	2
Cloud Counselage	26/09/2020	Pre-Internship talk	9

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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
4808146	8686444.7

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Class rooms	Existing
Laboratories	Newly Added
Seminar Halls	Existing
Classrooms with LCD facilities	Newly Added
Seminar halls with ICT facilities	Existing
Video Centre	Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added

No file uploaded.

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 patially)	Version	Year of automation
Koha	Partially	19.11.00	2019

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	23717	7390997	1379	705955	25096	8096952
Reference Books	1142	1933734	25	88682	1167	2022416

e-Books	4100000	943549	4100000	100300	8200000	1043849
Journals	45	1141019	Nill	127312	45	1268331
e-Journals	1519	11275986	Nill	1413947	1519	12689933
Digital Database	1	554280	Nill	73660	1	627940
Library Automation	Nill	Nill	1	59000	1	59000

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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
No Data Entered/Not Applicable !!!			
No file uploaded.			

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	685	496	685	84	72	9	685	100	0
Added	0	30	0	0	0	0	0	0	0
Total	685	526	685	84	72	9	685	100	0

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

100 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
Lecture Video-Vishal Gaikwad	https://youtube.com/c/VishalGaikwad
Lecture Video-Data Mining-Dr.Varsha Patil	https://www.youtube.com/playlist?list=PLS5J_kYlArq7NnTLozsMLdyAq8apovSdb
Lecture Video-Natural language processing	https://www.youtube.com/playlist?list=PLS5J_kYlArq70lFrO7hTSpGl97AosjFCl
Lecture Video-SPCC	https://www.youtube.com/watch?v=TMvdo_qs8wY&list=PL-fcTlQMi9LKYeymlXo0ROHJ8gTWMYQMw
Lecture Video-Pranita Mahajan	https://www.youtube.com/playlist?list=PLH1IvrZ7Ke8Mcz8GcdiRx3lHXlR4Is30n

Lecture Video-Dr.Varsha Patil -Digital Signal Processing	https://www.youtube.com/playlist?list=PLS5J_kYlArq4IyzaXT9Ko6bUvxfFfJkzT
Lecture Video-Dr.Varsha Patil -Image processing	https://www.youtube.com/playlist?list=PLS5J_kYlArq5oI4Dytcdhe0CsPuFyWzcH
Lecture Video-Shubhangi Kharche	https://www.youtube.com/watch?v=fvFr7K5SRlM&t=978s
Lecture Video-Shubhangi Kharche	https://www.youtube.com/watch?v=Hg6zziEWcgE&list=PLhpQs0NHPlI149mNj9wHe88pbfF3dx8_q
Lecture Video-Shubhangi Kharche	https://www.youtube.com/watch?v=59JxfBOGbs8&list=PLhpQs0NHPlI2T1hhxVeyV8EhuLwx_2vdA
Lecture Video-Shubhangi Kharche	https://www.youtube.com/watch?v=o7t_RovYMdc&list=PLhpQs0NHPlI1vuabzpTaCwTvZ69xEBAo8
Lecture Video-Kintu Patel	https://www.youtube.com/watch?v=cSjFjmwF1n0
Lecture Video-Kintu Patel	https://www.youtube.com/watch?v=gsDSpPuYYvM&t=112s
Lecture Video-Kintu Patel	https://www.youtube.com/watch?v=TxX7b-EHj_q&t=721s
Lecture Video-Microwave Engineering-Vandana Sawant	https://www.youtube.com/playlist?list=PL-9AzWXoM2kwUOcY9Pwzjl4rzwVe--NM2
Lecture Video-Add Shift Method - Leena Ladge	https://youtu.be/WQEgM6hyaLA
Lecture Video-Booths algorithm - Leena Ladge	https://www.youtube.com/watch?v=DzzH-Z0ow-4
Lecture Video- Time stamp	https://youtu.be/N1BMQuOPIoc
Lecture Video-Serializability	https://youtu.be/toxzu2mmICk
Lecture Video-Amit Pandhare	https://www.youtube.com/channel/UCpZZSqx7v3zevZu-ELlG5SA/videos
Lecture video-Unix File System (PreetiGodabole)	https://www.youtube.com/watch?v=M-TCcYWTjI0&t=3s
Lecture Video-Probability Theory and Random Variables by Biju Balakrishnan	https://www.youtube.com/playlist?list=PLNUeU2n0AMNLqu8AII1wCMj1GEHRy-X_f
Lecture Video-Information Theory and	

| Source Coding by Biju Balakrishnan | https://www.youtube.com/playlist?list=PLNUeU2n0AMNJkR0tCB5MSS62shNs6zL6J |
| Lecture Video-Baseband Modulation and ISI by Biju Balakrishnan | https://www.youtube.com/playlist?list=PLNUeU2n0AMNIbdNRHRxGVbM4rz4Hp2aVt |

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 incurredon maintenance of physical facilites
7835000	17371575	3000000	2454319.45

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)

The Institute provides adequate academic, physical and support facilities in the campus. In order to ensure that all the stakeholders get benefit, the facilities are maintained and optimally utilized by various systems and procedures are established in the Institute. 1.Maintenance of Physical Infrastructure and Support facility: Institute ensures maintenance of a clean campus by signing annual contracts with external agencies. These contracts ensure that the maintenance of the physical, academic and support facilities is carried out in a planned and systematic manner as per the standard policies developed by the Institute. a) Routine Maintenance: Cleaning, Dusting, Sweeping and Mopping of all areas is undertaken daily by the contractual housekeeping staff and is supervised by the attendants of every department. The Institute has multiple automated cleaning equipment for this purpose. Regular cleaning charts and progressive maintenance records are maintained. The Institute has a workforce of Carpenters, Electricians and On Call Plumbers for minor repairs b) Preventive Maintenance: Many areas of the Institute are air conditioned. The Institute outsources the maintenance of the Heating, Ventilation, and Air conditioning (HVAC). The agency provides monthly services for machines and on call repairs and submits its report to the administrative office. Fire Alarm System: The Institute has deployed Fire Alarm Systems as prescribed by Navi Mumbai Municipal Corporation (NMMC) CCTV: The Institute has installed multiple CCTVs in the Campus. The maintenance of the system is outsourced to M/s Crew Business System. The agency inspects the equipment monthly and submits its report to the Security Officer. Lifts: All the lifts are maintained through AMC with Johnson Private Elevators Water testing: Though the Institute gets its supply of potable water from NMMC, the estate maintenance department periodically gets the water sample tested to ensure quality. Audio Visual (AV) System: Periodic checks are carried out for electrical fittings and other equipment such as projectors, amplifiers and speakers on call basis. Pest Control: Pest control which includes combating general disinfection, rodent treatment and larva breeding is done periodically as per pre-decided calendar. Anti-Termite treatment is also done periodically 2. Maintenance of IT Infrastructure: The Institute has a full fledged Systems Department with a qualified Systems Manager for efficient maintenance and management of IT infrastructure in campus as per the standard policies developed by the Institute. Systems Administrator along with laboratory assistants, ensures that the IT infrastructure (including hubs, L1 / L2 Switches, WiFi Routers etc and peripherals) are always in working condition. The Institute has a policy of purchasing only hi branded computer and networking hardware from reputed companies like HP, Dell, Acer, Lenovo, IBM and D-link that purchased with 3years warranty and with annual maintenance for repairs. The Server and the

firewall are covered under the Comprehensive Annual Maintenance contract. Every laboratory maintains a complete record of the equipment such as DeadStock Register, Maintenance Register, utilization and Lab Readiness Certificate.

http://www.siesgst.edu.in/naac/4.4.2-AQAR-2019-20.pdf

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	Endowment SIES Management	52	76860
Financial Support from Other Sources			
a) National	Details Attached	29	924000
b)International	Nil	Nill	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 implemetation	Number of students enrolled	Agencies involved
Yoga, Meditation	21/06/2019	400	NSS Unit, SIESGST
Language Lab	06/01/2020	469	Department of Humanities Applied Sciences, SIESGST
Soft Skill development	26/02/2019	1108	Industry details attached
Remedial Coaching	09/07/2019	123	Departments of SIESGST
Bridge Course	16/01/2019	542	Industry details attached
Personal Counselling Mentoring	08/07/2019	1685	Ms. Sadaf Parker,Counselling, Psychologist and SIESGST Faculty, SIESGST All Faculties
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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 passedin the comp. exam	Number of studentsp placed
2020	Career Guidance	Nill	968	Nill	209
2020	Guidance	962	Nill	84	Nill

	for Competitive Exams				
	View File				

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
90	90	2

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed
Continuum Solutions	95	3	Amazon AWS	41	2

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

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2020	1	Mechanical Engineering	Mechanical Engineering	Welingkar Institute of Management Development & Research, Mumbai	MBA
2020	3	Printing & Packaging Technology	Printing & Packaging Technology	Rochester Institute of Technology	MS
2020	2	Information Technology	Information Technology	University of Texas	MS
2020	2	Electronics and Telecommunication Engineering	Electronics and Telecommunication Engineering	Rutger's Buisness School	MTech
2020	2	Computer Engineering	Computer Engineering	Northeastern University	MS

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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	8
CAT	2
GRE	39
TOFEL	26
Any Other	9

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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
Cage Cricket	Inter Collegiate	100

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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	SKREAM 20: National Level Sports Festival organized by KJ Somaiya college of Engg, Mumbai. Second Position in Athletics 100M Running	National	1	Nill	118A2074	Akanksha Sanjay Nakati
2019	SKREAM '20: National Level Sports Festival organized by KJ Somaiya college of Engg, Mumbai. Second Position in Athletics 200M	National	1	Nill	118A2074	Akanksha Sanjay Nakati

							Running
	2019	ENTHUSIA 2K19: National Level Sports Festival organized by VJTI, Mumbai.First Position in athletics 100M Running	National	1	Nill	118A2074	Akanksha Sanjay Nakati
	2019	ENTHUSIA 2K19: National Level Sports Festival organized by VJTI, Mumbai.First Position in athletics 200M Running	National	1	Nill	118A2074	Akanksha Sanjay Nakati
	2019	ENTHUSIA 2K19: National Level Sports Festival organized by VJTI, Mumbai.First Position in athletics 400M Running	National	1	Nill	118A2074	Akanksha Sanjay Nakati
	2019	Mumbai Games:Athletics. Second Position in 100M Running	National	1	Nill	118A2074	Akanksha Sanjay Nakati
	2019	Mumbai Games:Athletics. Second Position in 200M	National	1	Nill	118A2074	Akanksha Sanjay Nakati

	Running					
2019	First prize in Story Writing (District Level) at the 52nd Youth Festival.	National	Nill	1	116A4024	Vinay Thakur
2019	Winner- Clay Modelling competition at Youth Festival,Organized by University of Mumbai	National	Nill	1	116A4024	Vinay Thakur
2019	Winner in Debate competition at Mumbai university Youth festival	National	Nill	1	118A3060	Upade Arfah
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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 a very active Student's Council (SC). Every year the students council members are elected by a well established process. The process includes inviting applications from the students for the various posts of President, Secretary, Technical Secretary, Sports Secretary, NSS representative, Ladies representative, Class representatives, HOD Nominees and Student chapter representatives. The Class Representatives from each branch are selected based on academic merit in the preceding examination. HOD Nominees from each Department belong to final year. Every department in the Institute has professional student chapters IETE,IEEE,CSI,IPI, SAE and ISHRAE. Selection process: A selection committee comprising Principal, HoDs and the SC Incharge conduct an interview for the selection of the Technical, Cultural, Sports Secretary from final year and the Ladies and NSS representative from the third year. The core council formed by the above members elect the General Secretary and the President. The 50 member SC thus formed, has representation from all the departments and together they act as a link between the students and management. Handing of responsibilities from the previous to the successive is carried at the end of the academic year. The new council takes charge from the beginning of the new academic year. The SC also forms various dedicated teams for tasks such as Marketing, Public Relations, Logistics, Sponsorship generation, Social Media Management, Multimedia Editing and Photography based on the students' interests. This helps the students to gain first hand expertise and a better understanding of these fields. To Improve the Alumni interaction, a new post of Alumni representative was introduced. UDGAM an ISR team was formed in the year 2018 to sensitise social issues amongst the

students. Several clubs such as music dramatics, literary, robotics also work along with SC. An event calendar is formed by coordination among the SC, professional chapters and NSS to plan and organize all extracurricular, co curricular events. Alongside organizing college festivals and a plethora of workshops and skill development sessions across the academic calendar, the members also play a vital role in various Institute level committees like the women development cell (WDC), anti ragging, IQAC, CDC and ISR. The Technical Team of SC also contributes towards development of apps and web portals to improve the processes. One such app was the portal companion, an ERP Solution for the student related activities. They are involved in all the activities that define the life of a student at GST. The council plays an integral part in the organization and execution of the activities right from the orientation of the FE students to the farewell of the Graduating students. The college allocates significant funds for the smooth conduction of all the major activities. Students are also involved in making a detailed budget and marketing their events to procure funds. The college annual festival – Tatva Moksh Lakshya is dependent on the marketing done by the SC. Involvement of the students in various administrative bodies has made them more responsible and have strengthened their bonding with the Institute

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Yes the Institute has played a pivotal role in shaping the careers of students into technocrats, leaders, entrepreneurs, researchers and global managers. The Institute firmly believes in connecting with all alumni through mechanisms like alumni association and Alumni Directory/ Database. The Alumni Committee has been functional since 2010 with the objective to nurture a bond with alma mater, to receive feedback on the design and review of syllabus, to enhance employment opportunities and to create a networking platform to share and influence the success stories of alumni. Subsequently, the Alumni Association was formed in 2012 having one representative from every Department to cater to the ever increasing number of alumni. Alumni Linkedin and Facebook pages are created that help the Institute to remain connected with the alumni. The Institute takes pride in many star alumni who are currently pursuing and completing higher studies from institutes of eminence, India and Abroad, holding eminent and illustrious positions in various multinational companies. Some of the alumni are also successful entrepreneurs who have been felicitated best entrepreneurs. Contribution from Alumni: The Institute alumni contribute significantly to the development of the Institute through the following non financial means judging various competitions during annual festivals and mentoring the students. They have also been actively contributing to the NSSunit. The successful alumni entrepreneurs have been regularly contributing to Entrepreneurship Development Cell (EDC) and innovation cell by conducting workshops on writing 'Business Plans' and by arranging sponsorship of Rs.70,000/ from Intel for Hackathon event. They have also played a major role in bridging industry academia gap by organizing events like Developer Weekend. They have also been mentoring students of the EDC and have arranged for internships for students. Financial contribution: Sponsoring special awards which are given to the students for their exceptional contribution in the field of sports, technical, academics and for being the most enterprising student and one for being an all rounder. Providing scholarships for economically weak students. Helping in getting sponsorship for conduction of events. Setting up a basketball facility on the campus. Expert speaker: Alumni are invited for guest lectures, training programmes, seminars, induction programs for the First Year Engineering students etc. Experience sharing: A Total of 10 alumni meets have been organised by the Alumni Committee. In all these meets, alumni have shared

their valuable experience and inputs on the current trends in the industry. Curriculum enrichment: Alumni contribute for curriculum enrichment through their structured feedback on curriculum in order to keep pace with the recent advancements in industry. They also help us to bridge the identified gaps in the syllabus by conducting activities like handson workshops, guest lectures and value added courses Faculty: Few alumni are appointed as visiting faculty. IQAC: Alumni are active members of IQAC and their inputs have helped the Institute for quality enhancements. Placements: Alumni facilitate campus recruitment by suggesting to their companies. Alumni are also invited as a member of the Department Advisory Board (DAB) of the various programmes in the Institute.

5.4.2 – No. of enrolled Alumni:

3720

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

651000

5.4.4 – Meetings/activities organized by Alumni Association :

1. Alumni Reconnect: annual alumni meet organized on 04/01/2020. 2. Expert lecture by Alumni A. Shyam of EXTC deptt. on Data Analytics Machine Learning on 19 September 2019. 3. An alumni talk was organized on 'Projects in Heat Transfer in Alfa Laval' by alumni Mr.Pankaj Pathak from Alfa Laval for BE students on 30 August, 2019.

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)

Decentralisation and participative management in various administrative and academic activities is followed at different levels for effective implementation considering the standard operating procedures (SOPs), policies, regulations and guidelines. The decentralization in governance encourages participatory approach which leads to effective implementation of various processes and systems. Structured delegation of authority is involved that encourages the academic leadership among the faculty within subject disciplines, and peer groups. 1. Development of laboratories: A proper procurement process is followed to develop the laboratories which includes the delegation of work among staff, faculty and management. The respective faculty laboratory incharges and subject coordinators initiate the process of procurement by reviewing: 1. New requirements as per syllabus revision, if any, 2. Industry requirements. The technical staff and subject teachers are involved for the preparation of a proposal which is subsequently sent to the HOD for approval. The HOD then reviews the requirements based on the availability and current status of equipment, product specifications and the quoted price of the same. Then the consolidated proposals of all the departments are sent to the Registrar who further recommends the proposals on the basis of the budget sanctioned for each department for such capital expenditures. The purchase requisition is raised for all such proposals and sent to the Centralized Purchase Department. The Purchase Department then reviews the proposals and their quotations followed by finalization of the vendor. Further the purchase department tracks the whole process of purchasing and receiving the goods by the Departments. The process is completed with generation of the Goods Receipt Note (GRN) by the technical assistant of the laboratory. 2. Professional Development Activities for Students: The Institution encourages students to acquire meaningful experiences for learning at the campus with an aim to ensure

holistic development and progression of every student. The Institute believes in developing a relationship between academics and extra co curricular activities to build a strong personality and unshakable character of students. To achieve this every department has taken up the responsibility of managing activities under a specific professional student chapter like the IEEE chapter that is associated with the Electronics Telecommunication Department, Computer Society of India belonging to Computer Engineering department, Institution of Electronics and Telecommunication Engineers (IETE) belonging to Information Technology has IETE chapter, IPI student chapter belonging to Printing Packaging Technology Department and ISHRAE and SAE chapters belonging to Mechanical Engineering Department. Every Department plans an activity calendar for the entire semester and also manages the conduction of the activities. Every department takes responsibility for involving their department students in organizing and participating in professional activities held under the professional student chapters at the Institute or other Institutes. Every professional chapter also conducts a national flagship event once a year. These involvements enable and provide opportunity to every student to get involved in the self development process and thus providing a platform to hone their hidden talents. This encourages all the students to extend the range of their experiences and imaginations and venture beyond their comfortable limits.

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
Teaching and Learning	The institute has a planned teaching-learning process. There are internal external academic audits that are conducted periodically as a quality assurance innitiative. Department advisory boards also advise on the various quality improvements that can be made in the teaching-learning process. Online LMS such as Google classroom has also been employed by faculty members to deliver planned curriculum.
Library, ICT and Physical Infrastructure / Instrumentation	Library has continuously evolved to keep pace with the requirements of todays undergraduate education. Library OPAC and website are updated with the latest information which can be accessed by the students and the faculty members. Online, newer ICT tools have been employed by various faculty members for their course delivery.
Admission of Students	Student admission procedure has improved with career admission counselling, online form filling as well online fee payment. This has seamlessly integrated the admission procedure and record keeping for the Office thereby reducing the paper

	utilisation.
Curriculum Development	Based on the curriculum designed by the University of Mumbai the faculty members take input from experts and all stake holders and offer value-added programs to bridge the curriculum gap and to enhance the learnings of the student. This is an important step in the OBE philosophy of the institute.
Examination and Evaluation	The affiliating University of Mumbai prescribes the overall Evaluation Examination process. However, in addition to these direct tools, the faculty members also evaluate the students with the help of assessment tools such as mini-projects, case-studies and quizzes which are critical to map all the course outcomes.
Human Resource Management	Based on the requirements of the institute an established recruitment procedure is followed where staff requirements are obtained from all Heads of Department and reviewed by the Principal. Approval is taken from the management and advertisement in leading newspapers and Institute website. the interviews are conducted by Selecction Committee. The Annual appraisal of all faculties are done by HOD and reviewed by the Principal on the basis of the academic performance indicators and Promotions/ increment/ appreciation of the faculty decided by the management based on HoD and Principals recommendations
Industry Interaction / Collaboration	The industry institute interaction in SIESGST is vibrant through the industry institute interaction cell in the college. The departmental coordinators work together for various providing internships to students and also arranging guest lectures. Various MoUs are also in place for Industry Academia Collaboration through active through the departments.
Research and Development	The college is continuously looking at improving the RD activities by motivating the faculty to apply for various Grants from the Government bodies and also providing incentives to the faculty members for attending conferences and presenting papers.

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

E-governace area	Details

Finance and Accounts	SRM Tally is being used provided by Sreeweb ERP solutions Pvt. Ltd
Student Admission and Support	Zillion by Zillion Technologies for students admissions. The college website designed and maintained in-house is utilised for student support
Examination	KHUSHI Software is used for marks entry and result / marksheet generation as prescribed by the University of Mumbai.
Administration	Biometric Attendance provided by ESSL India for automatic attendance record for faculty members and Google App for Education (GSuite with siesgst.ac.in domain) for paper-less communication and collaboration is being utilised
Planning and Development	Education Management System (EMS) by Iweb Technologies is being utilised.

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	Biju Balakrishnan	NIL	IEEE-Women in Engg.	3937
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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)
2020	Leadership Talk by Dr. Nilesh Oak, Specialist Indian History	NA	30/05/2020	30/05/2020	11	Nill
2020	National Innovation and Startup Policy for Students and	NA	28/04/2020	28/04/2020	11	Nill

2020	Role and Importance of Pre-Inc ubators, Incubators and Accele rators in HEIs	NA	29/04/2020	29/04/2020	10	Nill
2020	FDP-Attainment of CO PO from NAAC Perspectiv e	NA	16/05/2020	16/05/2020	52	Nill
2020	FDP on Online Teaching Learning Tools	NA	06/06/2020	10/06/2020	31	Nill
2020	NA	Workshop on Posh-Pr evention of Sexual Harassment at Workplace	17/01/2020	17/01/2020	Nill	10
2020	NA	Online Training on Breathing Techniques and Tips to Improve Immunity	03/04/2020	09/04/2020	Nill	20

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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
5 days webinar series on Technological advancement in the field of Electronics Tel ecommunication Engineering	7	05/05/2020	09/05/2020	5
National Innovation and Startup Policy	11	28/04/2020	28/04/2020	1

for Students and Faculty				
Eye to Mind Connection	45	27/05/2020	27/05/2020	1
FDP- Attainment of CO PO from NAAC Perspective	52	16/05/2020	16/05/2020	1
ONE WEEK SHORT TERM TRAINING PROGRAM ON FOOD PACKAGING AND SHELF-LIFE ESTIMATION	28	16/12/2019	21/12/2019	5
ONE WEEK AICTE-ISTE AND IEEE BS MTTS CHAPTER APPROVED STTP ON "ANTENNAS AND RF COMPONENTS DESIGN, FABRICATION AND TESTING" (FROM 16TH DEC. 2019 TO 21ST DEC. 2019)	14	16/12/2019	21/12/2019	5
ISTE approved STTP on Application of object oriented programming in Mechanical Engineering	12	16/12/2019	21/12/2019	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
80	80	53	53

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
23	8	2

6.4 – Financial Management and Resource Mobilization

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

The Institute conducts internal and external audits. Statutory audit is conducted once a year by the external auditor as per stipulated provisions of the Income Tax Act. M/S. V. Sankar Aiyar Co, Chartered Accountants have been the Institutes Statutory Auditors for the last 5 years. They are independent

auditors appointed by the Society to conduct audits. Audit of the financial statements including the Balance Sheet and Income Expenditure Account of the Society is conducted. The reports of the statutory auditors are available for the last 5years. Books of accounts are maintained properly by the Society and the financial statements give a true and fair view in conformity with the accounting principles on the Balance Sheet and Income Expenditure Account. The internal audit is conducted on quarterly basis and is notified to the management through the Management Information System (MIS). The same is validated during the external audit.

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
Endowment SIES Management	76860	Awards. Recognition, Felicitation
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6.4.3 – Total corpus fund generated

525800

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	Yes	Senior faculty from other reputed institutes	Yes	Interdepartmental Heads/Senior Faculty Auditors
Administrative	Yes	Senior faculty from other reputed institutes	Yes	Interdepartmental Heads/Senior Faculty Auditors

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

The parents have been an instrumental Stakeholder of our Institute and they have been a pillar of strength over the years in the welfare of the students and the Institute. Following are some of the activities and support received: 1. Sponsorship for student activities. 2. Industrial Training / Internship Facilitation. 3. Assistance in placements for students. 4. Contributing through advisory boards. 5. Scholarship for needy students 6. Guest Expert Lectures

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

1 Workshop on Posh-Prevention of Sexual Harassment at Workplace 17th January 2020 2 Workshop on Planning Prioritising 18th February 2020 3 Orientation to Google Classroom 30th March 2020 4 Online Training on Breathing Techniques and Tips to Improve Immunity 03-04-20, 07-04-20, 08-04-20 to 09-04-20 5 MS teams Training 06th April 2020 6 Voice Care-in The Yogic Way 7th May 2020 7 Eye to Mind Connection 27th May 2020

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

1. Internship Policy framed 2. Adaptation of Innovative Teaching Learning

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	Campus Recruitment Training for BE (All Branches)	13/07/2019	13/07/2019	20/07/2019	40
2019	Student Orientation by Tata Consultancy Services - Industry Expectation from Engineering Graduates	25/07/2019	25/07/2019	25/07/2019	178
2019	Induction Programme conducted for First Year Engineering students	07/08/2019	07/08/2019	13/08/2019	320
2019	The session on Discussion on Faculty Handbook Updation, by Prof. Prasad Iyer conducted	19/08/2019	19/08/2019	19/08/2019	53
2019	One Day Faculty Development Program by Tata Consultancy Services on 1. Experiential Learning, 2. Imporatnce of	19/08/2019	19/08/2019	19/08/2019	5

	Automation in IT Sector, 3. SAP as an ERP SAP HANA- in Memory Relational Database Mangement System, 4. Ethics in Academia Business				
2019	Department of Printing Packaging Technology hosted the prestigious Idealliance South Asia/India/MENA G7 Expert Certification training. One faculty Prof. Gaurav Fasate was deputed from the PPT Department.	24/08/2019	24/08/2019	26/08/2019	1
2019	IEEE - ASPP e-journals training session by Mr. G K Upadhayaya from EBSCO India Pvt. Ltd, conducted.	29/08/2019	29/08/2019	29/08/2019	20
2019	Workshop on Python Programming, organized by CE dept.	31/08/2019	31/08/2019	31/08/2019	10
2019	IQAC Meeting	21/09/2019	21/09/2019	21/09/2019	18
2019	IQAC Meeting	19/10/2019	19/10/2019	19/10/2019	19
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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
Grooming seminar on How to keep us healthy	13/11/2019	13/11/2019	29	10
NSS skit on gender equality	18/09/2019	18/09/2019	8	7
Women's day celebration by WIE	09/03/2020	09/03/2020	30	42

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
2.05

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Provision for lift	Yes	Nill
Ramp/Rails	Yes	Nill
Rest Rooms	Yes	Nill
Physical facilities	Yes	Nill

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	Nill	1	21/06/2020	1	International Yoga day	fitness	400
2019	Nill	1	29/09/2020	1	p-pack junior	Spreading awareness about printing and packaging technology to 11th and 12th Std students	45

2019	Nill	1	14/09/2020	1	cleanliness drive	swachha bharat abhiyan	61
2020	Nill	1	17/02/2020	1	Anveshna project competition	Project competition for school children guided by UG engineering students	5
2020	Nill	1	31/01/2020	1	blood donation camp	saving lives by blood donation	108
2020	Nill	1	18/05/2020	10	mask making	covid 19	26
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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)
Code of ethics policy document	Nill	1.The Code of Conduct is displayed on the website: https://assessmentonline.naac.gov.in/storage/app/hei/SSR/100663/7.1.10_1605547369_5430.pdf 2.There is a committee to monitor adherence to the Code of Conduct 3.Institution organizes professional ethics programmes for students, teachers, administrators and other staff 4.Annual awareness programmes on Code of Conduct are organized.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
International Yoga Day	21/06/2019	21/06/2019	52
Big Mumbai Cleanup	01/07/2019	01/07/2019	40
Independence Day celebration	15/08/2019	15/08/2019	356
College Campus Cleaning	25/08/2019	25/08/2019	80
Tree Plantation	27/08/2019	27/08/2019	350
Adopted School	14/09/2019	14/09/2019	100

Cleaning and Student Interaction, Health and Hyegine			
Life and Works of Mahatma Gandhi, Quiz Competition	25/09/2019	25/09/2019	2
Gandhi Jayanti celebration	02/10/2019	02/10/2019	40
Republic Day celebration	26/01/2020	26/01/2020	325
Blood Donation Camp	31/01/2020	31/01/2020	98

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

Following are the initiatives taken to make the campus ecofriendly: 1. Compost Pit is maintained by Stree Mukti Kendra along with NSS for creating compost out of the canteen waste. 2. Gsuite for Education and Microsoft Office 365 is utilized to the fullest extent for paperless communication, records and paperless quizzes. 3. Dry waste and wet waste segregation at source has been initiated in AY 201819. 4. Solar Panel as a source of renewable energy / alternative energy for utilization in campus. 5.Plastic Ban is implemented in the campus. 6. Collection of PET Bottles (Mineral water bottles) at different locations in the campus in collaboration with Bisleri, during major events for recycling. 7. E-submissions of Journals in majority of Departments to reduce paper usage.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Response: Title: Learning by doing through professional student organizations Objectives: In line with the vision of the Institute, the practice of learning by doing was initiated with an objective: To provide an immersive-participant-focused, multidisciplinary learning, leading to holistic development of the students. To provide an opportunity for students to interact with fellow students from various engineering disciplines and develop team-spirit, leadership, and practical skills and understand industry best practices. To foster new areas of interest, out of the box thinking, enhance problem solving skills The Context: In the globalized digital world, the knowledge is no longer confined to experts, rather computer and internet connectivity has empowered every student to look for anything and everything and has led to change in the learning pedagogy. To keep pace with the needs of the learners, it is imperative to give equal importance to learning outside the classroom and encourage students to build their own interdisciplinary pathway. Further, the gap between academics and the needs of employers has also widened. This gap in education and practice for engineers has led to implementations of new student centric approaches in teaching and learning to improve their employability. The traditional classroom teaching supplemented with interdisciplinary teaching and learning can help in addressing students' individual differences and develop important, transferable skills. These changing needs of the learner have to be addressed and can be achieved through the activities driven by the student organizations which fosters love for learning and also addressing learning differences between industry and academia. The Practice: Considering the limitation of being an affiliated institute and with little control over the curriculum, we at SIESGST have created a road map to address this issue by

organizing activities through student organizations in a planned and structured manner which provides all the students with a platform that is dynamic, competitive, and yet encouraging enough for their holistic growth. The unique structure and functioning of student organizations not only provide a platform to showcase their talents, but also helps them to learn skills which go a long way in their life. The students get a chance to move to leadership roles from being mere members in four years. The student organization at SIESGST brings together the engineering community to build the future generation of engineers needed by the industry. Every department at SIES GST is associated with a professional chapter like IEEE, IETE, CSI, SAE, etc. In addition, there are many activity clubs for coding, Robotics, App and Web Development and an Innovation cell. Every professional chapter is run by student governance team and faculty mentor. The students can join these organizations based on their interests. Every team sets an objective and plans activities every semester with a focus on the problem-solving skills, and innovation in engineering. The activity includes seminars and lectures by industry professionals, hands on workshops, competitions, publishing newsletters and technical blogs, to name a few. The peer learning is encouraged through GST developer program To inculcate among students a sense of responsibility, good interpersonal and leadership skills, every student organization is expected to maintain a professional decorum and work in a systematic manner keeping in mind the academic expectations of the institute. The student council functions as the apex body and coordinates with all the student organizations to ensure smooth execution .Every student organization also does its bit in giving back to society. They conduct many technical workshops for school children. They also contribute to the Institute's social responsibility, Project Beacon, by teaching skills to the underprivileged. Evidence of Success The IEEE student body has been conducting many technical and non-technical events since 2009 and this year has received grants and has been awarded the best IEEE chapter in Mumbai region. All our national level events organized under various student bodies have grown bigger and better, creating a brand for themselves by attracting students from other states. The ISHRAE and SAE chapters have not only provided experiential learning opportunities to our students but has also helped bag some attractive jobs. The Web and App team has developed inhouse ERP solutions for students and portal to improve alumni registrations. Every year, the Code Chef team members have been placed in incredibly good companies have done well in the coding competitions like TCS codevita. These activities have created an innovation ecosystem that has helped us in getting four-star status by MHRD IIC and increased the number of winners at national and international hackathons. The workshops and seminars by industry experts have helped students understand about industry practices and getting internships and projects. The small step of taking student organization beyond merely organizing events to being a learning platform has taught students to multi-task and to balance their academics and extra and co-curricular activities well. Problems Encountered and Resources Required It is a challenge to motivate students and faculty as managing time for these activities in an engineering curriculum is difficult and they have to be carried out after college hours or on weekends. Generation of funds to carry out these activities is yet another problem as funds allotted by the Institute are not sufficient to carry out these activities. Future Plan With the stage set for innovation, the next step is to create technopreneurs in line with the nations goal of Atmanirbhar Bharat. Title: MENTORING SYSTEM FOR STUDENTS Objective: To minimize dropouts, improve overall performance and help students cope with stress through personal counselling. The Context The transition from high school to engineering education can be a stressful experience for many adolescents. This may include fear of bullies, a feeling of being lost, peer relationship worries, and anxiety over coping with increased workload. These concerns can directly impact their academic performance. The engineering course is a time bound course with time limitations to complete

your work, especially during the first two years and some students undergo various problems coping up with the engineering curriculum and the demands of education. Sometimes, the economic and educational background of students too can result in the development of several complexes in them due to inhibitions which may impact their performance. Considering the student teacher ratio in classrooms, it is impossible, at times, to give personal attention to students in the class to address some of the sensitive issues that bother them. One solution therefore is a 'Mentor' who can form a bond with students in the true sense. Mentoring is required for students to achieve emotional stability and to promote clarity in thinking and decision making for overall progress. The mentors can also give career guidance and play a major role in helping students achieve their professional goals. The Practice The practice is that of creating an efficient mentor-mentee system. Each teacher is assigned 15-20 students for the complete duration of their study. They meet at least once a week to discuss, clarify and primarily to share various problems which may be personal, domestic, academic, etc. The mentors encourage the students to participate in co-curricular and extra-curricular activities and sports. All their performances, both academic and other activities, are recorded. Students are instructed to inform their mentors about all their movements, like their absence from college, sickness, etc. The mentors also keep in touch with the parents on their attendance, test performance, fee payment, and examinations, among other things. The Mentee details are recorded and maintained in a well-designed mentee card so that the teacher is equipped with all the necessary information about his/her mentee. The teacher involves local guardians and parents as well whenever necessary for any advice or help. At the end of every semester, the mentors prepare a report of their mentees' progress. The mentors also counsel the students who encounter emotional problems. The Mentors take special care of weak learners, who are given advice on how to study, prepare a timetable for their study, besides clarifying their doubts and giving notes to study. The bright learners are encouraged to take up additional courses offered through MOOCs platform. They are also encouraged to participate in extra and co-curricular activities as per their interest. The mentor keeps a record of all the interactions and in cases where the mentor is not able to address the issues, he/she takes the help of senior faculty members or the Head of the department for further counselling. In extreme cases, professional help is sought. Evidence of Success It is needless to say that a mentor gets immense job satisfaction through this active participation with the students. Evidence of success of the practice includes improvement in university ranks, better results in the examinations, more regular attendance, less dropouts, increased participation in co-curricular and extra-curricular activities, better discipline on campus and a respectful relationship between teachers and students. The students are more relaxed and have a healthy relationship with the faculty members. Problems Encountered and Resources Required This practice requires a well-committed teaching staff that has the desire to help students beyond teaching hours. There are no limitations or constraints faced during the implementation of the program

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

http://www.siesgst.edu.in/campuslife/bestpractices.php

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

Giving Back to the Society and Environment: The South Indian Education Society (SIES) believes that students, staff and faculty should learn to interact with other people, being aware of social, environmental and gender issues, and

inequities in the society. The Institute provides an opportunity to every student to contribute to make the society in which they live better and grow as better individuals. The SIES Graduate School of Technology has committed itself to the task of inculcating social values and responsibilities in its students. The one-week long intense induction program for first year students gives the freshmen an insight into the Institute's values and vision. Along with other sports cultural and technical activities, the NSS unit plans activities like tree plantation and field visits to expose the students to the pressing issues in our society. A session on Universal Human Value (UHV) is arranged by experts. The Students are taken on field visits related to industries and encouraged to participate in competitions like 'Promethean' dealing with environmental issues. As a special thrust, societal development is also instilled on a large scale into the students through the active NSS unit which undertakes various services to inculcate social values. Throughout the year, the NSS unit undertakes a plethora of events ranging from street plays, cleanliness drives, tree plantation drives, donation drives, waste management drives, gender equity, field visits and many more. The NSS unit is also a part of the plastic recycling drive "Plastic is not bad. How you dispose plastic is bad" initiated by Bisleri which was successfully implemented in the campus. In addition to the activities by NSS, students have conducted donation drives for flood affected people in the past. One of our students was a part of the CDAC team, which was developing robotic chairs for COVID wards in the hospitals. Students have also developed an app portal to spread awareness about COVID 19. Keeping in mind the concerns regarding mental health during the lockdown, the portal also served as a platform to showcase initiatives and experiences of students during the lockdown. The Institute has been following a reduced paper drive since the last five years. During lockdown G Suite and Microsoft O365 were efficiently utilized for teaching learning and administrative activities. SIESGST has committed itself and taken on priority the task of an inclusive social upliftment and adopted 'Project Beacon' as the Institute's social responsibility. 'Project Beacon' incorporates a set of training programs for the targeted youth that are recognized by and are relevant to the requirements of industries. To begin with, seven vocational trades of Carpentry, Welding, Metal Turning, Sewing Tailoring, Plumbing, Electrician and Computer Operator were taken up. 'Project Beacon' is a small step to give meaning and purpose to someone's life. SIESGST has now successfully completed 4 batches of training under Beacon. At GST, every student, as individuals and together with staff, takes part in this endless odyssey of giving back to the society, and to transform it to make it a better place.

Provide the weblink of the institution
https://beacon.siesgst.ac.in/#Main-Body

8.Future Plans of Actions for Next Academic Year

The Institute plans the following for implementation in next academic year 1. NBA Accreditation for Computer Engineering, Electronics Telecommunication Engineering, Information Technology Mechanical Engineering Programmes. 2. Improving the NAAC Grade for the Institute. 3. Initiating new UG courses and increase in intake. 4. Equipping the Institution to start PG programs