



# YEARLY STATUS REPORT - 2020-2021

## 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**
- Does the institution function from its own campus? **Yes**
- Phone no./Alternate phone no. **02261082401**
- Mobile No: **9819150392**
- Registered e-mail **principal@siesgst.ac.in**
- Alternate e-mail **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**
- Pin Code **400706**

#### 2. Institutional status

- Type of Institution **Co-education**
- Location **Urban**

- Financial Status **Self-financing**
- Name of the Affiliating University **University of Mumbai**
- Name of the IQAC Coordinator **Prof. Leena Ladge**
- Phone No. **02261082402**
- Alternate phone No. **02261082402**
- Mobile **9867801816**
- IQAC e-mail address **iqac@siesgst.ac.in**
- Alternate e-mail address **principal@siesgst.ac.in**

**3. Website address (Web link of the AQAR (Previous Academic Year))**

<https://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 Web link:

[https://siesgst.edu.in/academics/acad\\_cal.php](https://siesgst.edu.in/academics/acad_cal.php)

**5. Accreditation Details**

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
<b>Cycle 1</b>	<b>B++</b>	<b>2.99</b>	<b>2018</b>	<b>16/08/2018</b>	<b>16/08/2023</b>

**6. Date of Establishment of IQAC**

**21/04/2017**

**7. Provide the list of funds by Central / State Government**

**UGC/CSIR/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.,**

Institutional/Department /Faculty	Scheme	Funding Agency	Year of award with duration	Amount
<b>Nil</b>	<b>Nil</b>	<b>Nil</b>	<b>Nil</b>	<b>Nil</b>

**8. Whether composition of IQAC as per latest NAAC guidelines**

**Yes**

- Upload latest notification of formation of IQAC

[View File](#)

**9.No. of IQAC meetings held during the year**      **3**

- Were the minutes of IQAC meeting(s) and compliance to the decisions have been uploaded on the institutional website?      **Yes**

- If No, please upload the minutes of the meeting(s) and Action Taken Report      No File Uploaded

**10.Whether IQAC received funding from any of the funding agency to support its activities during the year?**      **No**

- If yes, mention the amount

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

Initiatives for NBA Peer Team Visit

Framing of Startup policy

Digital Transformation of Academic & Administrative Processes

Reforming of Academic Audit guidelines

Promote research and innovation culture

**12.Plan of action chalked out by the IQAC in the beginning of the Academic year towards Quality Enhancement and the outcome achieved by the end of the Academic year**

Plan of Action	Achievements/Outcomes
To increase the number of Industry MoUs / linkages and conduct atleast one activity per year under this linkage.	The number of Industry MoUs have been increased from 08 of last year to 14 of this year. The activities conducted under these MoUs are less due to COVID pandemic.
To implement IT enabled management for all activities of the Institute.	ERP software JUNO has been implemented for various academic and administrative processes.
To improve participation of alumni in resource generation and planning & development.	The Alumni working in reputed Industries, have contributed through guest/ industry expert talksand student related activities. .
To formulate and implement start-up policy.	Draft of start-up policy has been prepared as per MHRD guidellines.

13. Whether the AQAR was placed before statutory body? No

- Name of the statutory body

Name	Date of meeting(s)
Nil	Nil

14. Whether institutional data submitted to AISHE

**Part A****Data of the Institution**

<b>1.Name of the Institution</b>	SIES GRADUATE SCHOOL OF TECHNOLOGY
• Name of the Head of the institution	Dr. Atul N Kemkar
• Designation	Principal
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• City/Town	Navi Mumbai
• State/UT	Maharashtra
• Pin Code	400706
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• Type of Institution	Co-education
• Location	Urban
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<b>4.Whether Academic Calendar prepared during the year?</b>	Yes				
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<b>13. Whether the AQAR was placed before statutory body?</b>	<b>No</b>				
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<table border="1"> <thead> <tr> <th>Year</th> <th>Date of Submission</th> </tr> </thead> <tbody> <tr> <td><b>2020-21</b></td> <td><b>03/02/2022</b></td> </tr> </tbody> </table>		Year	Date of Submission	<b>2020-21</b>	<b>03/02/2022</b>
Year	Date of Submission				
<b>2020-21</b>	<b>03/02/2022</b>				
<b>15. Multidisciplinary / interdisciplinary</b>					
<b>16. Academic bank of credits (ABC):</b>					
<b>17. Skill development:</b>					
<b>18. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course)</b>					
<b>19. Focus on Outcome based education (OBE): Focus on Outcome based education (OBE):</b>					
<b>20. Distance education/online education:</b>					

## Extended Profile

### 1. Programme

1.1

337

Number of courses offered by the institution across all programs during the year



File Description	Documents
Data Template	<a href="#">View File</a>

**2.Student**

2.1 1723

Number of students during the year

File Description	Documents
Data Template	<a href="#">View File</a>

2.2 214

Number of seats earmarked for reserved category as per GOI/  
State Govt. rule during the year

File Description	Documents
Data Template	<a href="#">View File</a>

2.3 474

Number of outgoing/ final year students during the year

File Description	Documents
Data Template	<a href="#">View File</a>

**3.Academic**

3.1 84

Number of full time teachers during the year

File Description	Documents
Data Template	<a href="#">View File</a>

3.2 78

Number of Sanctioned posts during the year

<b>Extended Profile</b>	
<b>1.Programme</b>	
1.1 Number of courses offered by the institution across all programs during the year	<b>337</b>
File Description	Documents
Data Template	<a href="#">View File</a>
<b>2.Student</b>	
2.1 Number of students during the year	<b>1723</b>
File Description	Documents
Data Template	<a href="#">View File</a>
2.2 Number of seats earmarked for reserved category as per GOI/ State Govt. rule during the year	<b>214</b>
File Description	Documents
Data Template	<a href="#">View File</a>
2.3 Number of outgoing/ final year students during the year	<b>474</b>
File Description	Documents
Data Template	<a href="#">View File</a>
<b>3.Academic</b>	
3.1 Number of full time teachers during the year	<b>84</b>
File Description	Documents
Data Template	<a href="#">View File</a>

3.2	78
Number of Sanctioned posts during the year	
File Description	Documents
Data Template	<a href="#">View File</a>
<b>4.Institution</b>	
4.1	35
Total number of Classrooms and Seminar halls	
4.2	53798673.97
Total expenditure excluding salary during the year (INR in lakhs)	
4.3	610
Total number of computers on campus for academic purposes	

## Part B

### CURRICULAR ASPECTS

#### 1.1 - Curricular Planning and Implementation

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

The SIES GST affiliated to University of Mumbai (UoM) takes adequate and timely measures to ensure effective curriculum delivery through various committees. IQAC jointly with various departments monitor the effective curriculum delivery through student feedback and result analysis.

Various academic committees like Academic Council ,Library Committee, Time table Committee, Attendance Monitoring Committee, Internal examination committee etc take care of day-to-day functioning of the institute.

Based on the academic schedule of the University, a well-structured institute academic calendar is prepared by the academic council committee.

Workload is calculated by the HoDs. Depending on the expertise,

experience, opted choices, the subject allocation is done.

The time tables (class, Individual faculty) are prepared for all programs at the beginning of the semester.

Faculty member and Course coordinator, frames course outcomes of his/hersubject ,prepares session plan with various teaching methodologies for efficient content delivery. In AY2020-21 the lectures and lab sessions were conducted online on MS Teams platform using PPTs, OneNote, Whiteboard, simulation software etc. Internal Assessment and End Sem Exams were also conducted online as per the guidelines received from the university. Evaluation of students' termwork was done through JUNO ERP system. Syllabus Completion review is taken twice in a semester by the HoDs.

Exposure to the advanced technology is also given to students through activities based on content beyond syllabus.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
Link for Additional information	<a href="https://drive.google.com/drive/folders/14pW0NvAujMYb9tuAgsC1UCAE_5vz3QFK?usp=sharing">https://drive.google.com/drive/folders/14pW0NvAujMYb9tuAgsC1UCAE_5vz3QFK?usp=sharing</a>

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

SIES GST is affiliated to University of Mumbai hence meticulously follows its academic calendar for conduction of Continuous Internal Evaluation. The university declares the beginning, end of the term, probable dates of examinations, holiday list in the beginning of the year.

The academic calendar is finalized by the academic council which includes CIE i.e. the internal tests, mid-sem and final term-work submissions, practical/oral examination, and various events. The calendar is then approved by the principal and circulated to the departments. Any change in the calendar during the semester, due

to unforeseen circumstances, is approved by the principal and communicated to the departments.

Faculty prepares a teaching plan of the allotted subject according to the calendar.

The internal exam committee schedules the time table of the Internal Test and result declaration date so that faculty completes his / her assessment as per the schedule. The practical/oral examination schedule is prepared by the committee. Faculty member conducts the exam of the students with the external examiner.

In AY2020-21 all the exams were conducted online as per university guidelines .

Evaluation of students' termwork was done through JUNO ERP system.

IQAC takes regular follow-ups of the execution of academic activities and internal evaluation and also verifies the quality of the question papers.

File Description	Documents
Upload relevant supporting documents	<a href="#">View File</a>
Link for Additional information	<a href="https://drive.google.com/drive/folders/1tzG7bDYFsDkhMGp1dJK_3cGow9L0htMQ?usp=sharing">https://drive.google.com/drive/folders/1tzG7bDYFsDkhMGp1dJK_3cGow9L0htMQ?usp=sharing</a>

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

**B. Any 3 of the above**

**Curriculum for Add on/ certificate/  
Diploma Courses Assessment /evaluation  
process of the affiliating University**

File Description	Documents
Details of participation of teachers in various bodies/activities provided as a response to the metric	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

## 1.2 - Academic Flexibility

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

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

06

File Description	Documents
Any additional information	<a href="#">View File</a>
Minutes of relevant Academic Council/ BOS meetings	<a href="#">View File</a>
Institutional data in prescribed format (Data Template)	<a href="#">View File</a>

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

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

10

File Description	Documents
Any additional information	<a href="#">View File</a>
Brochure or any other document relating to Add on /Certificate programs	<a href="#">View File</a>
List of Add on /Certificate programs (Data Template )	<a href="#">View File</a>

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

557

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

557

File Description	Documents
Any additional information	<a href="#">View File</a>
Details of the students enrolled in Subjects related to certificate/Add-on programs	<a href="#">View File</a>

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

At SIESGST, we believe in overall development of the students to improve their life skills and make them a good citizen. Crosscutting issues related to Professional Ethics, Gender, Human Values, Environment and Sustainability are addressed through different courses and activities throughout their graduation.

At the beginning of First year Engineering, an induction program is conducted for the students which includes yoga session, session on "Universal Human Values", English proficiency test, fun game, session on gender equality, physical activity, disaster management, first aid workshops.

Students study elective courses like Disaster Management, Environment Management, and Product Lifecycle management. The objective of these courses is to educate students for preserving the quality of environment. The courses explain the role of technological advancement to overcome environmental problems; and aims to sensitize the youth about the various environmental concerns and importance of sustainability.

Some courses like Business Communication and Ethics and Professional Communication & Ethics demonstrate knowledge of professional and ethical responsibilities.

The students are encouraged to apply and implement original technical ideas and also to practice the professional work ethics by avoiding plagiarism for their project report using Urkund- plagiarism software.

Through various activities of NSS unit, human values are incorporated amongst students.

File Description	Documents
Any additional information	<a href="#">View File</a>
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum	<a href="#">View File</a>

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

45

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

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



1579

File Description	Documents
Any additional information	<a href="#">View File</a>
List of programmes and number of students undertaking project work/field work/ /internships (Data Template)	<a href="#">View File</a>

## 1.4 - Feedback System

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

**A. All of the above**

File Description	Documents
URL for stakeholder feedback report	<a href="#">View File</a>
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management (Upload)	<a href="#">View File</a>
Any additional information(Upload)	<a href="#">View File</a>

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

**A. Feedback collected, analyzed and action taken and feedback available on website**

File Description	Documents
Upload any additional information	<a href="#">View File</a>
URL for feedback report	<a href="https://siesgst.edu.in/docs/AOAR_2020-21/Feedback_Analysis.pdf">https://siesgst.edu.in/docs/AOAR_2020-21/Feedback_Analysis.pdf</a>

## TEACHING-LEARNING AND EVALUATION

### 2.1 - Student Enrollment and Profile

#### 2.1.1 - Enrolment Number Number of students admitted during the year

**2.1.1.1 - Number of sanctioned seats during the year**

420

File Description	Documents
Any additional information	No File Uploaded
Institutional data in prescribed format	<a href="#">View File</a>

**2.1.2 - Number of seats filled against seats reserved for various categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy during the year (exclusive of supernumerary seats)****2.1.2.1 - Number of actual students admitted from the reserved categories during the year**

0

File Description	Documents
Any additional information	No File Uploaded
Number of seats filled against seats reserved (Data Template)	<a href="#">View File</a>

**2.2 - Catering to Student Diversity**

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

We identify students as slow learners and advanced learners based on the various parameters like prerequisite tests, class interaction, test performances, etc.. We at the institute, give emphasis on improving the performance of slow learners by providing remedial programs which are conducted outside regular classes

Through a mentor-mentee system also all kinds of support are provided to slow learners. The mentor takes extra effort to understand the socio-economic backgrounds also which is sometimes a reason for poor performance. All necessary emotional and professional counseling is also provided whenever required. Parents of students are informed in case of poor academic performance and psycho-social problems whenever necessary.

Advanced learners are given opportunities to be part of innovative projects and other technical initiatives of the institute. The toppers of each class are appointed as Class Representatives and also given an opportunity to be office

bearers of student councils and various professional bodies.

The assignments are prepared with questions at various cognitive levels (lower and higher) to cater to both slow and advanced learners.

File Description	Documents
Link for additional Information	<a href="https://drive.google.com/file/d/1hT4zXhOdWnO6oUT4GySEhd80Icak4z--/view?usp=sharing-TdGOyiSzVSaAYW7wvALM8S/view?usp=sharing">https://drive.google.com/file/d/1hT4zXhOdWnO6oUT4GySEhd80Icak4z--/view?usp=sharing-TdGOyiSzVSaAYW7wvALM8S/view?usp=sharing</a>
Upload any additional information	No File Uploaded

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

Number of Students	Number of Teachers
1723	84

File Description	Documents
Any additional information	<a href="#">View File</a>

## 2.3 - Teaching- Learning Process

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

We at SIESGST, conduct various student-centric activities to improve the quality of teaching-learning. The activities that are conducted under experiential learning, participative learning, and problem-solving methodologies are:

**Experiential learning:** We encourage students to practice various technical and non-technical skills through project development, student seminars, student development programs, workshops, internships, and industrial visits. For example, the project-based learning pedagogy was used in the subject Microcontrollers (Sem IV, EXTC) where students learned the practical approach of the microcontrollers using simulation tools.

**Participative learning:** We always strive to enhance the learning experience of learners in class through various interactive and participatory approaches apart from traditional teaching. Various approaches used are- Think-Pair-Share, Flipped

Classroom, Peer Instruction, Group Discussion, etc. For example, the Flipped classroom was conducted in subject MAD, BE IT(VII SEM) where students were asked to prepare from the shared eBooks and ppt, and the assessment was conducted in the classroom.

Problem-based learning: Students are given exposure to various problem-solving methodologies by solving real-world problems, design problems, and case studies. For example, in the data structures course of SECE, sem III, the students were posed with an open problem as given below and were guided to solve it systematically by the teacher.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Link for additional information	<a href="https://drive.google.com/file/d/1s12Z9UA51x4pg2q7RKINyT88YaqOrkp7/view?usp=sharing">https://drive.google.com/file/d/1s12Z9UA51x4pg2q7RKINyT88YaqOrkp7/view?usp=sharing</a>

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

In SIESGST, the classrooms and labs are ICT-enabled with projectors installed, and the campus is enabled with a high-speed wifi connection. The faculty at SIESGST use various ICT enabled tools to enhance the quality of teaching-learning like-

1. MS Teams is used to conduct online classes and upload learning material and class recordings.
2. MS forms are used to conduct an online assessment in the form of internal assessment, quizzes, class tests, etc.
3. ERP system (Juno- <https://siesedu.in/>) is used to manage student attendance, timetable, post-course learning material, and conduct continuous assessments like lab submissions and evaluations, assignments, etc.
4. The edited video lectures are uploaded by faculty on online platform like YouTube and website for students.
5. Virtual labs are used to conduct labs through simulations.
6. Online drawing tools like concept maps, mind maps, are used to perform student centric activities.
7. Media lab facility is used to create video lectures and upload in appropriate platforms for students to use as extra learning resources.

8. Lab manuals are mailed to students well in advance the experiment is performed.
9. Online quizzes and polls are regularly conducted to record the feedback of the students.
10. To teach mathematical subjects in online mode, teachers have used various online tools like whiteboard in Microsoft teams.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	<a href="https://siesgst.edu.in/docs/AQAR_2020-21/ICT-tool-Report.pdf">https://siesgst.edu.in/docs/AQAR_2020-21/ICT-tool-Report.pdf</a>

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

#### 2.3.3.1 - Number of mentors

83

File Description	Documents
Upload, number of students enrolled and full time teachers on roll.	<a href="#">View File</a>
Circulars pertaining to assigning mentors to mentees	<a href="#">View File</a>
mentor/mentee ratio	<a href="#">View File</a>

### 2.4 - Teacher Profile and Quality

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

84

File Description	Documents
Full time teachers and sanctioned posts for year (Data Template)	<a href="#">View File</a>
Any additional information	No File Uploaded
List of the faculty members authenticated by the Head of HEI	<a href="#">View File</a>

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

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

19

File Description	Documents
Any additional information	<a href="#">View File</a>
List of number of full time teachers with Ph. D. / D.M. / M.Ch./ D.N.B Super specialty / D.Sc. / D.Litt. and number of full time teachers for year(Data Template)	<a href="#">View File</a>

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

##### 2.4.3.1 - Total experience of full-time teachers

772

File Description	Documents
Any additional information	No File Uploaded
List of Teachers including their PAN, designation, dept. and experience details(Data Template)	<a href="#">View File</a>

## 2.5 - Evaluation Process and Reforms

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

The college being affiliated to University of Mumbai, follows the examination ordinances issued by affiliated University from time to time.

Internal assessment comprises of internal tests which are two separate heads of passing as per the syllabus scheme prescribed by the University of Mumbai. The internal assessment are planned as per the University academic calendar and informed to students and faculty in the start of the semester.

Two internal tests are conducted for 20 marks and an average of two tests is considered as 20% of the total weightage in each theory subject along with an end semester examination of 80 marks. The first test happens within 45 days of college reopening in such a way that at least 40% syllabus should have been covered in the class and the second test is scheduled after the next 40 % is covered.

The solution of the test along with the question-wise marking scheme is prepared and shared with students after the exam to maintain transparency and uniformity in the assessment of internal tests.

The internal assessments are routinely monitored by Internal Quality Committees to ensure that they meet the learning outcomes outlined in the course syllabus and the questions at various Blooms' levels are covered.

File Description	Documents
Any additional information	No File Uploaded
Link for additional information	<a href="https://drive.google.com/file/d/1T3xwxgIMwztFkRX0r1sHuxMu7CLCy8st/view?usp=sharing">https://drive.google.com/file/d/1T3xwxgIMwztFkRX0r1sHuxMu7CLCy8st/view?usp=sharing</a> <a href="https://drive.google.com/file/d/1T3xwxgIMwztFkRX0r1sHuxMu7CLCy8st/view?usp=sharing">vuQ3-liqu/view?usp=sharing</a>

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

The Institution adheres to the university ordinances related to grievances in internal examinations

We follow a transparent, time-bound, and efficient method in terms of dealing with internal examination-related grievances. Various internal examinations are being performed throughout the semester.

**Internal Assessments (Test 1 and Test 2):**

The faculty evaluates the papers within a week of the conduction of the test. The evaluated answer sheets are shown to students in class and faculty undertakes individual grievances with a student on the paper if required by the student.

**Assignments-**

Faculty evaluates assignments based on the rubric which is also shared with the students. The rubric consists of criteria- timely submission, clarity, neatness, etc. The evaluated assignments are given back to students thus maintaining the transparency of the marks assigned and resolving grievances if any.

**Lab experiments-**

The lab submissions are taken in LMS, e.g. Google classroom, and the marks given by the faculty are available to the students immediately, thus providing a transparent way for students to reflect on their strengths and areas of improvement.

**Project evaluation-**

In a semester two internal evaluations of the project are conducted in front of the panel consisting of a group of faculties.

File Description	Documents
Any additional information	<a href="#">View File</a>
Link for additional information	Nil

**2.6 - Student Performance and Learning Outcomes**

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

The Course outcomes of all courses offered are prepared by the respective course instructor at the start of the semester and uploaded on the college website. The subject teacher maintains a teaching plan in which around six-course outcomes are written, which are measurable, precise, and maps across all cognitive levels of Bloom's taxonomy.



The introductory lecture for all courses is meant for communicating the COs to the students. COs are revised, if a need is, after seeking approvals from the department level committee.

The Program Outcomes (POs) which are based on Graduate attributes are disseminated amongst all stakeholders and are prominently displayed on Department notice boards, laboratories, classrooms, college brochures, and also the institute website.

Program Specific Outcomes (PSOs) and Program Educational Objectives (PEOs) have been defined and stated after much deliberations and the involvement of stakeholders. This has been done for all undergraduate programs being offered at the institute. They are also disseminated amongst all stakeholders and are prominently displayed on Department notice boards, laboratories, classrooms, college brochures, and also the institute website along with the POs.

In our institution, every faculty member understands the concept of Outcome-based education and diligently tries to ensure that outcome attainments are met.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for Additional information	<a href="https://siesgst.edu.in/computer-engineering">https://siesgst.edu.in/computer-engineering</a>
Upload COs for all courses (exemplars from Glossary)	<a href="#">View File</a>

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

We follow a systematic process of measuring attainment levels of Programme Outcomes (PO), Program Specific Outcomes (PSO), and Course Outcomes (COs). The steps followed are-

1. Faculty formulates COs for their respective subjects every semester.
2. The COs are mapped to POs and PSOs.
3. The COs are continuously assessed during the semester

using various assessment techniques like unit tests, assignments, class tests, lab assignments, lab experiments, project evaluation, etc. The assessment questions given in tests are mapped to COs and the student scores of these test questions are used to calculate the attainment level of the COs.

4. The target attainment levels are set for each course based on previous results, for example, the average of the last three years' results is calculated to set the current year target attainment levels.
5. At the end of the semester, the attainment levels of each CO are calculated based on the assessment evaluation.
6. The CO attainment levels are used to calculate the attainment level of each PO and PSO, as shown in the table below.
7. Finally, a consolidated table is used to calculate the attainment level of each PO/PSO across all courses from the first year to the final year department-wise.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for Additional information	<a href="https://drive.google.com/file/d/1Hv23UV66H0QHv8GZZDkuzWYnpWcaLqOg/view?usp=sharing">https://drive.google.com/file/d/1Hv23UV66H0QHv8GZZDkuzWYnpWcaLqOg/view?usp=sharing</a>

### 2.6.3 - Pass percentage of Students during the year

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

474

File Description	Documents
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Paste link for the annual report	<a href="https://drive.google.com/file/d/1zhnpd1T7lKtbFiHktt07uoMhcx2t4e-y/view?usp=sharing">https://drive.google.com/file/d/1zhnpd1T7lKtbFiHktt07uoMhcx2t4e-y/view?usp=sharing</a>

## 2.7 - Student Satisfaction Survey

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

[https://siesgst.edu.in/docs/AOAR\\_2020-21/2.7.1-Student\\_Satisfaction\\_survey.pdf](https://siesgst.edu.in/docs/AOAR_2020-21/2.7.1-Student_Satisfaction_survey.pdf)

## RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 - Resource Mobilization for Research

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

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

0

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

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

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

0

File Description	Documents
List of research projects and funding details (Data Template)	No File Uploaded
Any additional information	No File Uploaded
Supporting document from Funding Agency	No File Uploaded
Paste link to funding agency website	Nil

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

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

79

File Description	Documents
Report of the event	<a href="#">View File</a>
Any additional information	No File Uploaded
List of workshops/seminars during last 5 years (Data Template)	<a href="#">View File</a>

### 3.2 - Research Publications and Awards

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

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

39

File Description	Documents
Any additional information	<a href="#">View File</a>
List of research papers by title, author, department, name and year of publication (Data Template)	<a href="#">View File</a>

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

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

39

File Description	Documents
Any additional information	<a href="#">View File</a>
List books and chapters edited volumes/ books published (Data Template)	<a href="#">View File</a>

### 3.3 - Extension Activities

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

At SIES Graduate School of Technology, we believe in the holistic growth of students and enable them to realize their social responsibilities. A vital part is its zestful National Service Scheme (NSS) Unit which diligently engages students in solving social problems. NSS takes charge in working towards a cleaner environment, educating the underprivileged, spreading awareness about the importance of Sex Education, organizing annual drives like the Blood Donation camp and Swachh Bharat initiative. In the 7-day camp, volunteers work tirelessly to achieve a common goal - the development of villages. Virtual help was extended to the Warap village despite the pandemic situation. The Student Council along with NSS celebrates all the days of national importance by performing skits on social issues and patriotic songs to keep the essence of nationalism alive. Our students are given an opportunity to pursue their interests in Art, Music, Dance, sports and technical skills and create an educational hub to gear up everyone towards making them wholesome intellectually, emotionally, creatively and physically. Model United Nations, Tedx@SIESGST, Bizence - A business solution and Promethean - An engineering solution to environmental problems are just a few, of the plethora of options for students to explore at SIESGST.

File Description	Documents
Paste link for additional information	<a href="https://www.instagram.com/nss_siesgst/?hl=en">https://www.instagram.com/nss_siesgst/?hl=en</a>
Upload any additional information	<a href="#">View File</a>

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

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

File Description	Documents
Any additional information	<a href="#">View File</a>
Number of awards for extension activities in last 5 year(Data Template)	<a href="#">View File</a>
e-copy of the award letters	<a href="#">View File</a>

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

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

55

File Description	Documents
Reports of the event organized	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
Number of extension and outreach Programmes conducted with industry, community etc for the last year (Data Template)	<a href="#">View File</a>

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

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

3734

File Description	Documents
Report of the event	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
Number of students participating in extension activities with Govt. or NGO etc (Data Template)	<a href="#">View File</a>

### 3.4 - Collaboration

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

344

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

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

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

14

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

## INFRASTRUCTURE AND LEARNING RESOURCES

### 4.1 - Physical Facilities

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

At SIESGST, efficient teaching and learning is achieved through traditional classroom teaching, practical training through state of art laboratories. The Institute has adequate infrastructure as per the AICTE norms. The campus of GST is spread in the area of 24795.64 sq. m. with the total constructed area of 15113.82 sq.m.

SIESGST ensures safety and security by monitoring the campus locality, covered under CCTV surveillance. The infrastructural facilities includes; Lecture Halls, Tutorial rooms, Drawing Halls, Seminar Halls, Laboratory, Library, TPO Office, First Aid Room, Counselling Centre, Office, Exam Cell, Assessment Rooms, Workshops, Seminar Hall, Auditorium, E-Learning Studio, Photocopy Centre, Canteens, Gymkhana, Open Amphitheatre and other facilities including HOD Rooms, Faculty Rooms, BCR and GCR and Store rooms.

In SIESGST each department has well equipped laboratories with excellent software and necessary hardware with an overall investment of more than 10 crores. Some of the major laboratory equipment that can be listed are NI lab view, vibrometer, CNC lathe, microwave bench, Blown-film extrusion, Offset printing machine, Injection and blow moulding machine. Institute has a well set up central computing facility in the area of 154 sq. m. where students, as well as faculty, can avail the facility of internet and audio-visual aids.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://drive.google.com/file/d/1l1AGM4ecRPInwly-TV64-zgf-BE8BH-z/view?usp=sharing">https://drive.google.com/file/d/1l1AGM4ecRPInwly-TV64-zgf-BE8BH-z/view?usp=sharing</a>

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

The Institution has adequate facilities for cultural activities, sports, games (indoor, outdoor) and gymnasium.

The Student council of SIES GST is well organized and has two dedicated positions as sports secretary to manage the sports events. Faculty sports in charge plans the sports activities along with the student members without hampering the academics. The college provides facilities for indoor sports, and the outdoor games are conducted in coordination with municipal corporation/ gymkhanas outside or in the vicinity of the institute.

SIES GST has an in-house gymnasium facility and the faculty and students can avail after the lecture hours and a dedicated space for Yoga and Meditation for improving the mental and physical



health of faculty and students.

The Student council of SIES GST has a team to organize various cultural events on various occasions such as first-year orientation, farewell, teacher's day, National Festivals, Annual Festivals, Open Mic, Music Charity Concert, Funfairs, and the end-of-the-year farewell etc. The institute has enriched students with dedicated clubs that helps in boosting their inherent talents. The college also has open-air lawn and amphitheater for the creation of a supportive atmosphere and facilities.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://drive.google.com/file/d/1q7qtzJ-8XSmhkOfzGoQhgmzpZnjNBnnQ/view?usp=sharing">https://drive.google.com/file/d/1q7qtzJ-8XSmhkOfzGoQhgmzpZnjNBnnQ/view?usp=sharing</a>

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

35

**4.1.3.1 - Number of classrooms and seminar halls with ICT facilities**

35

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	<a href="https://drive.google.com/drive/folders/1Tsw6L1zqfOYrAPC0tn0BLxE8Jx19d574?usp=sharing">https://drive.google.com/drive/folders/1Tsw6L1zqfOYrAPC0tn0BLxE8Jx19d574?usp=sharing</a>
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	<a href="#">View File</a>

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

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

## 31.08

File Description	Documents
Upload any additional information	No File Uploaded
Upload audited utilization statements	<a href="#">View File</a>
Upload Details of budget allocation, excluding salary during the year (Data Template)	<a href="#">View File</a>

## 4.2 - Library as a Learning Resource

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

Juno Campus of the library module is one stop shop solution for all library automation activities. The software is user friendly and very useful in automating the various functions of library including configuration of branches, circulation modules, branch-wise membership registration of users, access rights, management of bibliographical data of various items such as books/journals/e-journals/CDs, cataloguing of books, facility to convert legacy data, data backup, online line public access catalogue (Web OPAC), book reservation, book bank management etc.

The unique feature of the software is the provision to generate various kinds of library reports such as author and title-wise details of books, list of e-books, bound volume of journals, flexible and customization in generation of reports, downloading accession register, digital library, barcode generation of books, overall statistics of various items, stock verification etc. Besides, software is compatible with library standards and software is being used by number of libraries across the country.

Besides, library has set up Dspace e-repository and NPTEL video lectures which can be accessed within the campus. In addition to that library provides photocopy and internet with wi-fi facility to access e-resources throughout the campus. Library has a separate portal providing useful information which can be accessed: <https://librarygst.wixsite.com/library>

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for Additional Information	<a href="https://librarygst.wixsite.com/library">https://librarygst.wixsite.com/library</a>

**4.2.2 - The institution has subscription for the following e-resources e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access toe-resources** **A. Any 4 or more of the above**

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Details of subscriptions like e-journals,e-ShodhSindhu, Shodhganga Membership etc (Data Template)	<a href="#">View File</a>

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

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

**16.36**

File Description	Documents
Any additional information	<a href="#">View File</a>
Audited statements of accounts	<b>No File Uploaded</b>
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	<a href="#">View File</a>

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

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

**0.240**

File Description	Documents
Any additional information	<a href="#">View File</a>
Details of library usage by teachers and students	No File Uploaded

### 4.3 - IT Infrastructure

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

The institute has always given priority for up-gradation of IT facilities. The description of the same is provided below

- **Internet Connection:** The institute has an available internet bandwidth of 100 MBPS provided by JIO that is latest renewed in 2020. A second backup line by TATA is provided with bandwidth of 20MBPS.
- **Media Lab/Video Lecture making Facility:** The institute has a well equipped media lab where faculties can prepare their video lectures.
- **Firewall/Security:** GST uses firewall service from Sophos-XG 330 and the support license is renewed every year.
- **Power backup:** GST has a centralized power backup.
- **Antivirus:** GST uses F-Secure antivirus.
- **Licensed softwares:** Institute has various softwares needed for academic purposes which includes Oracle, Flash Pro, Photoshop etc.
- **Annual Maintenance:** GST has an on call basis maintenance.
- **Online Lectures:** The institute has licensed versions of G Suite and Microsoft Office Suite (Microsoft Teams) via which the online lectures and practicals from March 2020 are being conducted.
- **Plagiarism Software:** GST uses licensed version of URKUND software
  
- **ERP System:** The institute uses the JUNO ERP system for recording details like student attendance, student journal submissions, staff leave management, student railway concessions etc .

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://siesgst.edu.in/docs/AQAR_2020-21/4.3.1.pdf">https://siesgst.edu.in/docs/AQAR_2020-21/4.3.1.pdf</a>

#### 4.3.2 - Number of Computers

610

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Student – computer ratio	<a href="#">View File</a>

#### 4.3.3 - Bandwidth of internet connection in the Institution A. ? 50MBPS

File Description	Documents
Upload any additional Information	<a href="#">View File</a>
Details of available bandwidth of internet connection in the Institution	<a href="#">View File</a>

#### 4.4 - Maintenance of Campus Infrastructure

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

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

30.38

File Description	Documents
Upload any additional information	No File Uploaded
Audited statements of accounts.	<a href="#">View File</a>
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	<a href="#">View File</a>

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

SIES GST follows well defined processes for maintaining and utilizing physical, academic and support facilities. The annual maintenance of physical, academic and support facilities are carried out by the respective departments. The infrastructure, equipment and other facilities such as lifts, fire extinguishers, fire systems, generator, UPS, air conditioners, water purifiers, water coolers, photocopy machines, laboratory equipment, computer systems are maintained by the external agencies.

The maintenance is carried out throughout the year and as and when required. The system administrator maintains the network related equipment's like switches, routers, access-points, and also looks after the CCTV security system. The institute has on campus electrician for repairs and maintenance of the electrical equipments.

The registrar, HOD and the principal regularly monitor the facilities as a protocol, that are followed by the institute.

The repair and maintenance by an external agency are managed by inviting quotations from multiple vendors and finalized by the purchase team. The purchase requisitions are raised by individual department coordinators followed by purchase orders, invoice preparations etc. For major civil works the estate committee, consisting of the Head of the Institute, estate manager and management representative decides the course of action.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

## STUDENT SUPPORT AND PROGRESSION

### 5.1 - Student Support

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

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

456

File Description	Documents
Upload self attested letter with the list of students sanctioned scholarship	<a href="#">View File</a>
Upload any additional information	No File Uploaded
Number of students benefited by scholarships and free ships provided by the Government during the year (Data Template)	<a href="#">View File</a>

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

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

22

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

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

**A. All of the above**

File Description	Documents
Link to institutional website	<a href="https://siesgst.edu.in/docs/AQAR_2020-21/5.1.3.pdf">https://siesgst.edu.in/docs/AQAR_2020-21/5.1.3.pdf</a>
Any additional information	No File Uploaded
Details of capability building and skills enhancement initiatives (Data Template)	<a href="#">View File</a>

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

**1320**

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

**1320**

File Description	Documents
Any additional information	<a href="#">View File</a>
Number of students benefitted by guidance for competitive examinations and career counseling during the year (Data Template)	<a href="#">View File</a>

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

**A. All of the above**



File Description	Documents
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	<a href="#">View File</a>
Upload any additional information	No File Uploaded
Details of student grievances including sexual harassment and ragging cases	<a href="#">View File</a>

## 5.2 - Student Progression

### 5.2.1 - Number of placement of outgoing students during the year

#### 5.2.1.1 - Number of outgoing students placed during the year

202

File Description	Documents
Self-attested list of students placed	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

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

#### 5.2.2.1 - Number of outgoing student progression to higher education

29

File Description	Documents
Upload supporting data for student/alumni	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
Details of student progression to higher education	<a href="#">View File</a>

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

#### 5.2.3.1 - Number of students qualifying in state/ national/ international level examinations

(eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations) during the year

96

File Description	Documents
Upload supporting data for the same	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### 5.3 - Student Participation and Activities

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

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

50

File Description	Documents
e-copies of award letters and certificates	<a href="#">View File</a>
Any additional information	No File Uploaded
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national/international level (During the year) (Data Template)	<a href="#">View File</a>

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

SIESGST has a very active Student's Council (SC) and each department has a student council for their professional body like IETE, IEEE, CSI, IPI, SAE and ISHRAE. Every year the student council members are elected through a well-established process. 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 firsthand expertise and a better understanding of these fields. Several clubs such as music, dramatics, literary, robotics also works along with SC. 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), ICC, anti-ragging, IQAC, CDC and ISR. The Technical Team of SC also contributes towards development of apps and web portals to improve the processes. Involvement of the students in various administrative bodies have improved their managerial and leadership qualities and made them more responsible and have strengthened their bonding with the Institute.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	<a href="#">View File</a>

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

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

130

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

## 5.4 - Alumni Engagement

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

SIESGST Alumni Association was formed in 2012. Alumni meet provides a platform for the ex-students to interact with the Institute. Alumni meet is the annual gathering of SIES GST Alumni, which is held on the first Saturday of January. Many star alumni who are currently pursuing and completed higher studies from institutes of eminence, India and Abroad, are holding eminent and illustrious positions in various multinational companies. They have also been contributing to the NSS unit. 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. Expert speaker: Alumni are invited for guest lectures in their respective domains training programmes, coding competition, for induction programs for the First Year students etc. Alumni are also invited as a visiting faculty in PPT department. They also help us to mitigate the identified gaps through beyond syllabus activities like handson workshops, guest lectures . IQAC: Alumni are active members of IQAC and their inputs are helping us for quality enhancements. Placements: Alumni facilitate campus recruitment by suggesting their companies. Some of the alumni are members of Department Advisory Board.

File Description	Documents
Paste link for additional information	<a href="https://drive.google.com/drive/folders/lc0jiUYY-qNbE4ceSablN8dYJE_710ZlE?usp=sharing">https://drive.google.com/drive/folders/lc0jiUYY-qNbE4ceSablN8dYJE_710ZlE?usp=sharing</a>
Upload any additional information	<a href="#">View File</a>

#### 5.4.2 - Alumni contribution during the year E. <1Lakhs (INR in Lakhs)

File Description	Documents
Upload any additional information	<a href="#">View File</a>

## GOVERNANCE, LEADERSHIP AND MANAGEMENT

### 6.1 - Institutional Vision and Leadership

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

The Vision and Mission of the Institute is set with the involvement of all stakeholders, considering the need of the society. The Institute prepares the strategic plan which is executed by the departments.

**Vision of the Institute:** To be a centre of excellence in Education and Technology committed towards Socio-Economic advancement of the country.

**The Mission of the Institute:**

- To impart advanced knowledge in Engineering and Technology.
- To transform young minds towards professional competence by inculcating values and developing skills.
- To promote research and ensure continuous value addition among students and employees.
- To strengthen association with industry, research organizations and alumni to enhance knowledge on current technologies.
- To promote next generation technocracy and nurture entrepreneurial culture for social-economic growth.

**Strategic / Perspective plan:**

1. To enrich curriculum
2. To incorporate digital platform to improve teaching-learning process
3. To encourage research and consultancy, industry-institute interaction and entrepreneurship activities.
4. To strengthen alumni engagement and enhance student experience.
5. To enhance contribution towards society and the environment.
6. To initiate new courses at PG and UG level.
7. To formulate development plans to improve the overall quality of the institute

File Description	Documents
Paste link for additional information	<a href="https://siesgst.edu.in/about-sies">https://siesgst.edu.in/about-sies</a>
Upload any additional information	<a href="#">View File</a>

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

Institute has various statutory and non statutory committees with different roles including planning and effective execution of the academic and administrative activities. To demonstrate decentralization and participative management, the case study related to Teaching learning process is mentioned here.

At the Institution level, Academic council committee consists of the Advisor, Principal, Vice-Principal, HODs, IQAC coordinator, Registrar and Section Heads. Academic Council Committee is responsible for holistic development of the college and to recommend on the enhancement of student facilities, students' life and experiences at the Institute.

The Head of the Department collects the choice of subject from faculty in the department well before commencement of the semester. Assigns the subject to the faculty based on the expertise and choice.

The Subject in charge along with course coordinators frame/modify COs ,CO-PO mapping and prepares session plan with various active learning strategies.

HODs also ensure that the academic calendar is followed and academic discipline is maintained at all levels in the delivery of course content, conduct of examinations, assessment of theory as well laboratory. Faculty feedback is taken twice in semester and transparency is maintained to improve the content delivery.

File Description	Documents
Paste link for additional information	<a href="https://drive.google.com/file/d/1PlymcDC5431SvfEPkvNWtR5nVBY_Myl-/view?usp=sharing">https://drive.google.com/file/d/1PlymcDC5431SvfEPkvNWtR5nVBY_Myl-/view?usp=sharing</a>
Upload any additional information	<a href="#">View File</a>

## 6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ perspective plan is effectively deployed

Strategic Plan was prepared for the year 2018-25. It sets out specific targets in every sphere of activity of the Institute—academic programs, research, collaboration with industry, human resource development, entrepreneurship,

development of infrastructure and facilities, student life, placement, community outreach, international and alumni relations.

These targets have been set after extensive consultation to ensure that they are both ambitious and achievable. The targets are achieved by contributions of stakeholders-faculty, staff, students, alumni, international partners and industry experts.

To ensure effective implementation of strategic objectives each department submits the compliance report with respect to the well-defined following goals. To measure the effectiveness of each goal, it is broken down into various elements.

For example, to improve the skill enhancement in students the institute conducts project-based internship during summer and winter breaks in various domains such as 3D printing, Artificial Intelligence, Robotics etc. Various stake holders are involved in planning and execution of these SDPs and internal internship. The curriculum is framed by the faculty members and validated from industry experts. The effectiveness of these programs is measured by skill test at the end of program and certification is given to each student after successfully completing the internship.

File Description	Documents
Strategic Plan and deployment documents on the website	<a href="#">View File</a>
Paste link for additional information	<a href="https://siesgst.edu.in/docs/STRATEGIC_PLA N-Deployment_2018_21.pdf">https://siesgst.edu.in/docs/STRATEGIC_PLA N-Deployment_2018_21.pdf</a>
Upload any additional information	<a href="#">View File</a>

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

The institute has a vision to be a centre of excellence in Education and Technology committed towards socio-economic advancement of the country. There is a well developed organizational structure comprising of the Stakeholders and the Governing Body (SIES President and managing council), Principal, HoDs, staff and Section Heads. It reviews the institutional strategic plan, finance, infrastructure, recruitment and matters related to the overall development of the institute. Various

stakeholders of the institute are members of different committees constituted by the Department/Institution. Committees follow the organizational hierarchy for any decision-making procedures. As per the university/ government guidelines, IQAC Cell, Anti-ragging Cell, grievance redressal committee and Internal Complaints committee etc. are also in place for the institution. There are statutory and non statutory committees with well-defined functions that give academic and administrative leadership to the institution. SIESGST strictly follows the service rules according to the AICTE norms and available on the college website. Recruitment process is carried out according to the norms of the University of Mumbai. The staff have the benefits of PF, Gratuity, Maternity leave, Mediclaim, and other benefits as applicable. The institution follows transparent promotional policies through Appraisal forms and Academic Performance Indicators.

File Description	Documents
Paste link for additional information	<a href="https://drive.google.com/drive/folders/1VpgOs-T06m56AMzc6bQuu47X3wgcXCC7?usp=sharing">https://drive.google.com/drive/folders/1VpgOs-T06m56AMzc6bQuu47X3wgcXCC7?usp=sharing</a>
Link to Organogram of the Institution webpage	<a href="https://apc01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fsiesgst.edu.in%2Fcontent.php%3Fid%3D90&amp;data=04%7C01%7Chodextc%40sies.edu.in%7Ce1b6578d0f95406d37fe08da00140863%7C405ddc34d66046e5b52dbfd0be156bb5%7C0%7C0%7C637822383287023526%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6IklhaWwiLCJXVCI6Mn0%3D%7C3000&amp;sdata=EBmTAKdkMoN6zWkirEYNMeZ%2BAjdmr68dy9ojI1kzEs0%3D&amp;reserved=0">https://apc01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fsiesgst.edu.in%2Fcontent.php%3Fid%3D90&amp;data=04%7C01%7Chodextc%40sies.edu.in%7Ce1b6578d0f95406d37fe08da00140863%7C405ddc34d66046e5b52dbfd0be156bb5%7C0%7C0%7C637822383287023526%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6IklhaWwiLCJXVCI6Mn0%3D%7C3000&amp;sdata=EBmTAKdkMoN6zWkirEYNMeZ%2BAjdmr68dy9ojI1kzEs0%3D&amp;reserved=0</a>
Upload any additional information	<a href="#">View File</a>

**6.2.3 - Implementation of e-governance in areas of operation Administration Finance and Accounts Student Admission and Support Examination**

**A. All of the above**



File Description	Documents
ERP (Enterprise Resource Planning) Document	<a href="#">View File</a>
Screen shots of user interfaces	<a href="#">View File</a>
Any additional information	No File Uploaded
Details of implementation of e-governance in areas of operation, Administration etc (Data Template)	<a href="#">View File</a>

### 6.3 - Faculty Empowerment Strategies

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

The Institute has a welfare mechanism in place, for teaching and non-teaching staff.

#### Teaching Staff:

- As per the norms of AICTE, Pay commission recommendations are implemented.
- Extending EPF Scheme is implemented to all eligible members (as per PF Rules)
- Group insurance facility .
- Maternity Leave of 6 months with pay and extension of additional leave if required.
- College organizes free and periodic health checkups.
- Felicitation for acquiring higher degree.
- Bank and ATM facility in campus.
- Free canteen coupons.
- Grievance/suggestion box.
- Quota in admission for employees' children in any of the SIES Institutions .
- SIES Jeevan Raksha Vaccination drive was conducted for teaching staff.
- Safe drinking water facility.
- Encouragement of R&D culture by providing on duty leave.

#### Non-Teaching Staff:

- Extending EPF Scheme is implemented to all eligible members (as per PF Rules)
- Group insurance facility.
- College organizes free, periodic health checkups.

- Uniform is provided for supporting staff.
- Maternity, Medical leaves / vacation is sanctioned for the required staff.
- Bank and ATM facilities are available in the campus.
- SIES Jeevan Raksha Vaccination drive was conducted for non-teaching staff.

File Description	Documents
Paste link for additional information	<a href="https://drive.google.com/drive/folders/1E7EjCS7bFLqu-rK49EA-DOfbF9TTQ3lj?usp=sharing">https://drive.google.com/drive/folders/1E7EjCS7bFLqu-rK49EA-DOfbF9TTQ3lj?usp=sharing</a>
Upload any additional information	<a href="#">View File</a>

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

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

5

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	<a href="#">View File</a>

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

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

12

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

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

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

62

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

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

Institute follows a well-defined and framed model of performance appraisal system namely Academic Performance Indicator as per UGC guidelines.

It is based on Teaching, learning and evaluation related activities such as Lectures, tutorials, practical hours, remedial lectures, use of innovative methodologies and examination duties. Professional development, co-curricular and extension activities. Research and Academic Contribution like Research papers published in refereed journal, conference proceedings, Book and Book Chapter, ongoing and completed Research projects and consultancies and Training courses.

Student feedback helps to measure quality of teaching-learning processes and effectiveness of course design and delivery.

#### Performance Appraisal Process:

Every year faculty fills confidential report at the end of the academic year. The confidential report is reviewed by the HOD and the Principal and submitted to HR for further consideration for appreciation or corrective action.

Also, every faculty updates details of faculty contribution and performance appraisal in the faculty handbook.

#### Performance Appraisal System of Non-Teaching Staff:

Every non-teaching staff also fills a self-appraisal form at the end of the academic year. The self-appraisal is first reviewed by the HOD for Technical staff and by the Registrar for the administrative staff and then by the Principal. The self-appraisal reports is then sent to HR for further considerations.

File Description	Documents
Paste link for additional information	<a href="https://drive.google.com/drive/folders/1-UKf8P1Pc-bb9fggLhUdkD8SDDscS6qe?usp=sharing">https://drive.google.com/drive/folders/1-UKf8P1Pc-bb9fggLhUdkD8SDDscS6qe?usp=sharing</a>
Upload any additional information	<a href="#">View File</a>

## 6.4 - Financial Management and Resource Mobilization

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

The Institute conducts 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 5 years. 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

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

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

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

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

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

SIES Graduate School of Technology is a private unaided institute. It has a well-defined financial policy which ensures

optimal utilization of finances for academic, administrative and research activities. The institute is being run with self sufficient funds generated from tuition fee and other miscellaneous incomes. In case of shortage of funds, the management supports by providing the finance.

In case of activities like expansion and renovation of building, the management always supports by providing required finance. Financial planning is done at the beginning of the academic year well in advance with efficient budgeting involving all the Heads of Academic Departments and Administrative Sections. Apart from the tuition fee, the resource mobilization is mainly done through

- Interest on Corpus
- Consultancy Charges
- Endowments
- Research Grants
- Sponsorship
- Funds from University for NSS Activities
- Sale of Application Forms

The management reviews all the financial activities through scrutiny of budgets and expenses in every quarter. Through centralized purchase the funds are monitored and utilized in an effective manner.

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

## 6.5 - Internal Quality Assurance System

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

SIESGST had a very active and effective ISO 9001:2008 Quality Management System (2005-17) and same is now being continued

under the IQAC.

The two best practices presently institutionalized under IQAC are:

**1. Initiatives for proposed NBA Peer Team Visit:**

Three departments were NBA accredited for the year 2012-14 and applied for the accreditation in 2019-20 for four departments namely Electronics & Telecommunication, Computer Engineering, Information Technology and Mechanical Engineering. The peer team visit was due in April 2020, but due to Pandemic it was rescheduled in March 2021. After the assessment, accreditation was granted for 03 years 2012-24. The initiatives taken for the same include delegation of work among Institution and Department Coordinators, Systematic documentation and maintenance of files, Internal & External Mock visits, arranging Department Advisory Board meetings, conducting academic and administrative audits.

**2. Digital transformation of Academic and Administrative Processes:**

Sudden outbreak of pandemic, led to digital transformation for academic & administrative processes. SIESGST provided the platforms such as G-Suite and Microsoft Office 365 for teaching-learning and various admin purposes. JUNO-ERP software was procured to maintain student, staff and office records by integrating various processes. Daily and weekly reports were prepared for effective monitoring and controlling academic activities.

File Description	Documents
Paste link for additional information	<a href="https://drive.google.com/file/d/1lCbeeTU_jB3pp-3E-LuCI8tDy_UPid80/view?usp=sharing">https://drive.google.com/file/d/1lCbeeTU_jB3pp-3E-LuCI8tDy_UPid80/view?usp=sharing</a>
Upload any additional information	<a href="#">View File</a>

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

**1. Quality online teaching-learning process:**

The sudden covid outbreak was managed by establishing quality

online teaching learning process with the help of Microsoft Office 365. Common presentation template was shared by IQAC. Department wise sheets were shared to maintain the daily and weekly records of the sessions conducted by the faculty which included the lecture number, topics covered, time, number of students attended, and use of ICT tools etc. These reports were analysed by the vice principal. The video lectures were also monitored to maintain quality. Students and faculty were advised to attend online technical webinars, project competitions, short term training programs, coursera and NPTEL courses.

## 2. Outcome writing and Mapping

IQAC supports Outcome-Based Education (OBE). The Program Outcomes (POs) are adapted from NBA, program-specific outcomes are prepared by each program from the feedback obtained from stakeholders. The Course Outcomes are reframed as per Blooms Taxonomy and mapped to POs for the revised syllabus. To ensure the learning outcomes are achieved, internal assessments included subjective and objective questions. Higher cognitive level questions included in Assignments.

The Social-media was used to communicate with the students and peers. For conducting lectures in online mode various efforts have been taken by faculty members.

File Description	Documents
Paste link for additional information	<a href="https://drive.google.com/file/d/17UMJCi0UYklWflWL3iHJrddxNdIS5qxC/view?usp=sharing">https://drive.google.com/file/d/17UMJCi0UYklWflWL3iHJrddxNdIS5qxC/view?usp=sharing</a>
Upload any additional information	<a href="#">View File</a>

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



File Description	Documents
Paste web link of Annual reports of Institution	<a href="https://siesgst.edu.in/docs/AQAR_2020-21/SIES_Annual_Report_20-21.pdf">https://siesgst.edu.in/docs/AQAR_2020-21/SIES_Annual_Report_20-21.pdf</a>
Upload e-copies of the accreditations and certifications	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Upload details of Quality assurance initiatives of the institution (Data Template)	<a href="#">View File</a>

## INSTITUTIONAL VALUES AND BEST PRACTICES

### 7.1 - Institutional Values and Social Responsibilities

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

Institute conducts various activities which are committed to gender equity. Focus of these events is gender sensitization and gender equality, awareness through health communication program. The Institution has established Internal Complaint Committee (ICC), Women Development Cell (WDC) and National Service Scheme (NSS) Cell to identify, address and conduct various programs on such issues. The institute has outsourced the security personnel, which consists of lady security personnel to ensure safety, security of girls. Institute has installed adequate number of CCTV cameras in the campus for safety and security. The institute also has common rooms for boys and girls separately. With an objective to support women throughout their careers - to empower, engage and enable them to rise to the best of their capabilities, the institute has conducted a program in association with CII. Women achievers are regularly invited to campus to motivate the girls. College students are educated through WDC and NSS cell to be sensitive towards issues of Gender bias, sexual harassment, Women empowerment, Dowry, Safety through skits and dramas. Experienced Lawyer was called to discuss Legal Formalities and Laws related to girls, POSH, laws against discrimination, substantive, and Procedural laws in case of sexual assault, procedure of registering complaint in ICC and related laws, important laws related to Cyber Crimes and legal procedure. etc.

File Description	Documents
Annual gender sensitization action plan	<a href="https://drive.google.com/file/d/1l2F5R79cy8w-ljH7skDW_5vb3oKx4uet/view?usp=sharing">https://drive.google.com/file/d/1l2F5R79cy8w-ljH7skDW_5vb3oKx4uet/view?usp=sharing</a>
Specific facilities provided for women in terms of: a. Safety and security b. Counseling c. Common Rooms d. Day care center for young children e. Any other relevant information	<a href="https://drive.google.com/file/d/1o31NfoWJQdH4oLOqDo8F64OVsCpVaUvp/view?usp=sharing">https://drive.google.com/file/d/1o31NfoWJQdH4oLOqDo8F64OVsCpVaUvp/view?usp=sharing</a>

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

**C. Any 2 of the above**

File Description	Documents
Geo tagged Photographs	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

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

SIES Graduate School of Technology believes in "Let's go green and keep our campus clean". The NSS unit of SIESGST has played a prominent role in this by organizing various awareness programs, conducting tree plantations and various other activities. Solid Waste Management to achieve a healthy and conducive environment on our campus, we strictly follow the waste segregation by employing Dry and Wet waste bins throughout the campus. The compost pit is maintained by the NSS volunteers. The compost obtained is filtered, processed and then distributed. There are 5 compost pits installed by SIESGST in association with Stri Mukti Sanghatna. The NSS volunteers collected all the unused ruled sheets available on the campus to make notebooks and are distributed among underprivileged students. Corrugated boxes were upcycled to make creative dustbins that were placed in each classroom for collecting dry waste

**E-waste generated in the campus is collected through the**

maintenance team and is safely disposed of through vendors. The students also gain awareness about E-waste management and its effects through various seminars. Various aspects of E-Waste like disposal, ill effects, recycling, limitations, etc. were discussed in this seminar. Due to lockdown, we did E waste awareness through online mode only.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	No File Uploaded
Geo tagged photographs of the facilities	<a href="https://drive.google.com/file/d/1GYVfftufiUsRmbflq54I0UlkcklsooK9/view?usp=sharing">https://drive.google.com/file/d/1GYVfftufiUsRmbflq54I0UlkcklsooK9/view?usp=sharing</a>
Any other relevant information	<a href="#">View File</a>

**7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus** **A. Any 4 or all of the above**

File Description	Documents
Geo tagged photographs / videos of the facilities	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

**7.1.5 - Green campus initiatives include**

**7.1.5.1 - The institutional initiatives for greening the campus are as follows: A. Any 4 or All of the above**

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

File Description	Documents
Geo tagged photos / videos of the facilities	<a href="#">View File</a>
Any other relevant documents	<a href="#">View File</a>

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

**7.1.6.1 - The institutional environment and energy initiatives are confirmed through the following**

**1.Green audit 2. Energy audit 3.Environment audit 4.Clean and green campus recognitions/awards 5. Beyond the campus environmental promotional activities**

**A. Any 4 or all of the above**

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	<a href="#">View File</a>
Certification by the auditing agency	No File Uploaded
Certificates of the awards received	No File Uploaded
Any other relevant information	<a href="#">View File</a>

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

**B. Any 3 of the above**

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

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

The institute provides a culturally inclusive environment with mutual respect, effective relationships, and clear communication. People of all cultural orientations work in harmony that is safe from abuse, harassment, or unfair criticism. Everyone has freedom to express their own opinions and are given equal opportunity to participate in teaching, learning, work, and social activities. Equal opportunities are provided to the students in various activities conducted throughout the session irrespective of their caste, creed, religion, and region. The institution has an active student council and NSS wing to inculcate a sense of unity, discipline, and harmony. The institution believes in equality of all cultures and traditions.

Anti-ragging cell acts as a key factor in maintaining tolerance and harmony among students. For the last decade there is not a single incidence of ragging which shows the efficient working of the cell. Grievance redressal committee is also constituted to address the grievances among students to maintain harmony in the college. Various cultures are represented during the fests which depict sense of respect towards all the cultures. Cultural and technical activities were organized in online mode during annual festival to promote harmony towards each other. A weeklong FE induction is organized for the newbies to give them a delightful start to their four years of engineering journey. Exclusive competitions are organized by senior students for the first-year students. The bonds are strengthened when the learning takes place within the peer group. The student clubs also organized online cultural shows like Open Mic, Cultural Week.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

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

At SIESGST, we believe in giving holistic all-round education to the students and sensitizing students on our constitutional rights, values, duties and responsibilities is one of the primary educations given at the institute through various means. This helps the Institution to ensure the constitutional obligations are done through curriculum as well as through extra-curricular activities. In subjects like Cyber security students study various concepts related to cybercrime, cyberspace, Indian IT act etc. The subject Laws, Regulations and Sustainable Packaging is a core subject in PPT branch in which students learn all the packaging laws and regulations laid by Regulatory Bodies. Also, an elective is offered on Environment studies for all final year students which gives them insight into environment acts, wildlife protection acts etc. Seminars on topics like Right to Information, sexual harassment are conducted periodically. In the Right to Information seminar, various sections and categories of the act are explained. Institute organizes MUN (Model United Nations), a two-day international relations conference with the agenda to discuss issues related to nuclear disarmament, preventing potential human rights infringements emerging with the technological developments etc.

NSS unit conducts a cleanliness drive to mark the occasion of Swachh Bharat Abhiyan in the campus as well as in the nearby village area. An oath is taken by all students and faculties to keep their surroundings clean.

File Description	Documents
Details of activities that inculcate values; necessary to render students in to responsible citizens	<a href="#">View File</a>
Any other relevant information	No File Uploaded

**7.1.10 - The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard. The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff 4. Annual awareness programmes on Code of Conduct are organized**

**B. Any 3 of the above**

File Description	Documents
Code of ethics policy document	<a href="#">View File</a>
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programs etc., in support of the claims	<a href="#">View File</a>
Any other relevant information	No File Uploaded

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

**The institute starts its day with the national anthem. All national festivals are celebrated with great enthusiasm to inculcate a sense of patriotism in the students. Every year, students of the NSS unit and Students Council highlight social problems through performances like dance, skits, speeches. Ex-defence or police personnel are invited to share their experience. The Institution also commemorates the birth/death anniversaries of great Indian personalities like Chatrapati Shivaji Maharaj and Mahatma Gandhi, sharing the teachings of**

these eminent personalities through speeches and posters. The annual technical festival, Cognition is conducted on Sept 15, every year, to commemorate the birth anniversary of Shree Mokshagundam Visvesvaraya. As SIESGST offers course in PPT, printer's day is celebrated as a tribute to Johann Gutenberg. Special efforts are taken to promote technical culture under various professional communities and celebrate the foundation days of IEEE and IETE. International Women'sday is celebrated to show respect for women's efforts and contributions. Two minutes of silence is observed on 26th July to pay homage to the martyrs of the Kargil war. Language is the root map of our culture, and we make efforts to preserve it by celebrating Marathi Bhasha Divas. We constantly try to instil a sense of gratitude towards the sacrifices of great leaders of our country.

File Description	Documents
Annual report of the celebrations and commemorative events for the last (During the year)	<a href="#">View File</a>
Geo tagged photographs of some of the events	<a href="#">View File</a>
Any other relevant information	No File Uploaded

## 7.2 - Best Practices

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

### Criterion 7 - Institutional Values and Best Practices

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

1. Title: The transparent, safe and secure digital platform during pandemic

**Objective:** The pandemic situation opened the various challenges as well as many innovative areas for the development in all the fields. In the education field, the biggest challenge was the transformation from conventional teaching to the online teaching, examinations, evaluations without losing the zest of teaching - learning process in a very short period of time. Providing the digital learning platform which also helps in fair continuous evaluation without break in the running semesters was



the main objective during the pandemic.

**The Context:** In this 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. This gap in the offline and online education has led to implementations of new student centric approaches in teaching and learning to improve their understanding. 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 online engagement of the students for different activities.

**The Practice:** Considering the pandemic situation and sudden shut of the offline / physical activities, we at SIESGST have created a road map to address this issue by deploying the necessary things such as the G-Suite, Microsoft platform with all necessary applications like Google Meet, Classrooms, Sites, Google forms, Microsoft teams, Outlook, forms, share point, one drive, one note, whiteboard, office 2019 student edition etc.

The SIESGST's own domain [siesgst.ac.in](http://siesgst.ac.in) and [sies.edu.in](http://sies.edu.in) provides staff and students with unlimited storage space so that faculty can record their lectures and provide students with the access for easy rewind and recollect the taught content at their pace, anytime anywhere. With this storage, faculties can share the reference notes, study material which includes personal notes, PPTs, pdfs etc.

The main hurdle during these online sessions was the continuous assessment and transparent evaluation without losing the faith in educational system. Due to our own secured domain, we could give every student with unique email ID, which helped us to restrict students for submitting more than one response and also giving examinations with fake IDs or multiple IDs, also, we could conduct the examination in very transparent way.

During this period, different activities like seminars and lectures by industry professionals, hands on workshops, competitions, to name a few, have been conducted smoothly to keep students motivated towards the learning and innovations.

In this pandemic, the MOOCs (Massive Open online course) platforms were explored by the students as well as faculties such as Coursera, GitHub, SWAYAM, online internships etc, through college domain-based IDs.

The students were located at different places where we faced the connectivity issues, poor network from students' side.

2. Title: Value-added courses during winter/summer vacation.

Objectives-

To acquaint students with the latest technologies

To provide hands-on training on the latest tools and technologies

To develop problem-solving skills through project development

The context-

The value-added courses with the internship-based project, across various disciplines on emerging technologies are offered in the winter vacation (December 2021) for TE and BE students. The registration to courses is kept open to all the students across all the branches.

The courses are designed by the departments after brainstorming on the industry-academia gap, interdisciplinary skills, and making students industry-ready. The experts on the identified courses are identified both from department and industry and the course structure is designed. The course content is designed by the course coordinator and is verified and validated by the industry expert.

Practice-

The courses are floated to students at least one week prior to the start date during the summer/winter vacation. The courses duration is of 40 hours followed by 15 days of internship projects. The course is focused more on the practice of skills, technological tools, and hands-on sessions. These courses are free of cost for the students.

The list of courses planned and conducted during the summer

break of 2020-21 are as given below-

Table1- List of Value-added courses conducted in Summer 2021.

Sr.no.

SDP

Organized by

Date

1

3D Modelling and 3D Printing

Mechanical department

June 21 to July 03, 2021

2

Simulation using ANSYS and CFD

Mechanical department

June 21 to July 03, 2021

3

Network Management and Security

IT department

June 21 to June 26, 2021

4

Mobile & Web App Development

CE department

June 28 to

July 03, 2021

5

Data Science

CE department

June 28 to

July 03, 2021

6

Advanced Antenna Design

EXTC department

June 28 to July 04, 2021

7

Introduction to Embedded System and IoT

EXTC department

June 28 to July 03, 2021

File Description	Documents
Best practices in the Institutional web site	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

### 7.3 - Institutional Distinctiveness

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

**The Vision of SIES Graduate School of Technology**

**"To be a centre of excellence in Education and Technology committed towards Socio-Economic advancement of the country".**

In line with its vision of working towards the socio-economic development of the country, the SIES has taken utmost care to give back to the community.

'Project Beacon' is a small step to give meaning and purpose to someone's life. For the inclusive social upliftment and the Institute adopted 'Project Beacon' as the institute's social responsibility.

#### Mask making project of beacon

Institute donated 2.5 lakh masks to the frontline COVID warriors, through Navi Mumbai Municipal Corporation and was handed over to the Commissioner Abhijit Bangar. The Institute made these masks through its Graduate School of Engineering's Beacon Project, which employs economically challenged women in the Nerul-Vashi area.

The Institute has its own "The National Service Scheme" (NSS) unit plans activities like tree plantation, cleanliness drive, E-waste awareness, wet waste and disaster management to expose the students to the pressing issues in our society. A session on Universal Human Value (UHV) is arranged by experts. Not only that, every first-year faculty member has completed a short-term course in UHV, they also interact regularly with the students.

## Part B

### CURRICULAR ASPECTS

#### 1.1 - Curricular Planning and Implementation

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

The SIES GST affiliated to University of Mumbai (UoM) takes adequate and timely measures to ensure effective curriculum delivery through various committees. IQAC jointly with various departments monitor the effective curriculum delivery through student feedback and result analysis.

Various academic committees like Academic Council, Library Committee, Time table Committee, Attendance Monitoring Committee, Internal examination committee etc take care of day-to-day functioning of the institute.

Based on the academic schedule of the University, a well-structured institute academic calendar is prepared by the academic council committee.

Workload is calculated by the HoDs. Depending on the expertise, experience, opted choices, the subject allocation is done.

The time tables (class, Individual faculty) are prepared for all programs at the beginning of the semester.

Faculty member and Course coordinator, frames course outcomes of his/hersubject, prepares session plan with various teaching methodologies for efficient content delivery. In AY2020-21 the lectures and lab sessions were conducted online on MS Teams platform using PPTs, OneNote, Whiteboard, simulation software etc. Internal Assessment and End Sem Exams were also conducted online as per the guidelines received from the university. Evaluation of students' termwork was done through JUNO ERP system. Syllabus Completion review is taken twice in a semester by the HoDs.

Exposure to the advanced technology is also given to students through activities based on content beyond syllabus.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
Link for Additional information	<a href="https://drive.google.com/drive/folders/14pW0NvAujMYb9tuAgsClUCAE_5vz3QFK?usp=sharing">https://drive.google.com/drive/folders/14pW0NvAujMYb9tuAgsClUCAE_5vz3QFK?usp=sharing</a>

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

SIES GST is affiliated to University of Mumbai hence meticulously follows its academic calendar for conduction of Continuous Internal Evaluation. The university declares the beginning, end of the term, probable dates of examinations, holiday list in the beginning of the year.

The academic calendar is finalized by the academic council which includes CIE i.e. the internal tests, mid-sem and final term-work submissions, practical/oral examination, and various events. The calendar is then approved by the principal and circulated to the departments. Any change in the calendar during the semester, due to unforeseen circumstances, is approved by the principal and communicated to the departments.

Faculty prepares a teaching plan of the allotted subject according to the calendar.

The internal exam committee schedules the time table of the Internal Test and result declaration date so that faculty completes his / her assessment as per the schedule. The practical/oral examination schedule is prepared by the committee. Faculty member conducts the exam of the students with the external examiner.

In AY2020-21 all the exams were conducted online as per university guidelines .

Evaluation of students' termwork was done through JUNO ERP

system.

IQAC takes regular follow-ups of the execution of academic activities and internal evaluation and also verifies the quality of the question papers.

File Description	Documents
Upload relevant supporting documents	<a href="#">View File</a>
Link for Additional information	<a href="https://drive.google.com/drive/folders/1tzG7bDYFsDkhMGp1dJK_3cGow9L0htMO?usp=sharing">https://drive.google.com/drive/folders/1tzG7bDYFsDkhMGp1dJK_3cGow9L0htMO?usp=sharing</a>

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

**B. Any 3 of the above**

File Description	Documents
Details of participation of teachers in various bodies/activities provided as a response to the metric	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

## 1.2 - Academic Flexibility

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

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

06



File Description	Documents
Any additional information	<a href="#">View File</a>
Minutes of relevant Academic Council/ BOS meetings	<a href="#">View File</a>
Institutional data in prescribed format (Data Template)	<a href="#">View File</a>

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

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

10

File Description	Documents
Any additional information	<a href="#">View File</a>
Brochure or any other document relating to Add on /Certificate programs	<a href="#">View File</a>
List of Add on /Certificate programs (Data Template )	<a href="#">View File</a>

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

557

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

557

File Description	Documents
Any additional information	<a href="#">View File</a>
Details of the students enrolled in Subjects related to certificate/Add-on programs	<a href="#">View File</a>

### 1.3 - Curriculum Enrichment

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

At SIESGST, we believe in overall development of the students to improve their life skills and make them a good citizen. Crosscutting issues related to Professional Ethics, Gender, Human Values, Environment and Sustainability are addressed through different courses and activities throughout their graduation.

At the beginning of First year Engineering, an induction program is conducted for the students which includes yoga session, session on "Universal Human Values", English proficiency test, fun game, session on gender equality, physical activity, disaster management, first aid workshops.

Students study elective courses like Disaster Management, Environment Management, and Product Lifecycle management. The objective of these courses is to educate students for preserving the quality of environment. The courses explain the role of technological advancement to overcome environmental problems; and aims to sensitize the youth about the various environmental concerns and importance of sustainability.

Some courses like Business Communication and Ethics and Professional Communication & Ethics demonstrate knowledge of professional and ethical responsibilities.

The students are encouraged to apply and implement original technical ideas and also to practice the professional work ethics by avoiding plagiarism for their project report using Urkund- plagiarism software.

Through various activities of NSS unit, human values are incorporated amongst students.

File Description	Documents
Any additional information	<a href="#">View File</a>
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum	<a href="#">View File</a>

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

45

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

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

1579

File Description	Documents
Any additional information	<a href="#">View File</a>
List of programmes and number of students undertaking project work/field work/ /internships (Data Template)	<a href="#">View File</a>

1.4 - Feedback System	
<b>1.4.1 - Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders Students Teachers Employers Alumni</b>	<b>A. All of the above</b>
File Description	Documents
URL for stakeholder feedback report	<a href="#">View File</a>
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management (Upload)	<a href="#">View File</a>
Any additional information(Upload)	<a href="#">View File</a>
<b>1.4.2 - Feedback process of the Institution may be classified as follows</b>	<b>A. Feedback collected, analyzed and action taken and feedback available on website</b>
File Description	Documents
Upload any additional information	<a href="#">View File</a>
URL for feedback report	<a href="https://siesgst.edu.in/docs/AQAR_2020-21/Feedback_Analysis.pdf">https://siesgst.edu.in/docs/AQAR_2020-21/Feedback_Analysis.pdf</a>
<b>TEACHING-LEARNING AND EVALUATION</b>	
<b>2.1 - Student Enrollment and Profile</b>	
<b>2.1.1 - Enrolment Number Number of students admitted during the year</b>	
<b>2.1.1.1 - Number of sanctioned seats during the year</b>	
<b>420</b>	
File Description	Documents
Any additional information	<b>No File Uploaded</b>
Institutional data in prescribed format	<a href="#">View File</a>

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

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

0

File Description	Documents
Any additional information	No File Uploaded
Number of seats filled against seats reserved (Data Template)	<a href="#">View File</a>

## **2.2 - Catering to Student Diversity**

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

We identify students as slow learners and advanced learners based on the various parameters like prerequisite tests, class interaction, test performances, etc.. We at the institute, give emphasis on improving the performance of slow learners by providing remedial programs which are conducted outside regular classes

Through a mentor-mentee system also all kinds of support are provided to slow learners. The mentor takes extra effort to understand the socio-economic backgrounds also which is sometimes a reason for poor performance. All necessary emotional and professional counseling is also provided whenever required. Parents of students are informed in case of poor academic performance and psycho-social problems whenever necessary.

Advanced learners are given opportunities to be part of innovative projects and other technical initiatives of the institute. The toppers of each class are appointed as Class Representatives and also given an opportunity to be office bearers of student councils and various professional bodies.

The assignments are prepared with questions at various cognitive levels (lower and higher) to cater to both slow and advanced learners.

File Description	Documents
Link for additional Information	<a href="https://drive.google.com/file/d/1hT4zXhQdWnO6oUT4GySEhd80Icak4z--/view?usp=sharing-TdGQyiSzVSaAYW7wvALM8S/view?usp=sharing">https://drive.google.com/file/d/1hT4zXhQdWnO6oUT4GySEhd80Icak4z--/view?usp=sharing-TdGQyiSzVSaAYW7wvALM8S/view?usp=sharing</a>
Upload any additional information	No File Uploaded

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

Number of Students	Number of Teachers
1723	84

File Description	Documents
Any additional information	<a href="#">View File</a>

### 2.3 - Teaching- Learning Process

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

We at SIESGST, conduct various student-centric activities to improve the quality of teaching-learning. The activities that are conducted under experiential learning, participative learning, and problem-solving methodologies are:

**Experiential learning:** We encourage students to practice various technical and non-technical skills through project development, student seminars, student development programs, workshops, internships, and industrial visits. For example, the project-based learning pedagogy was used in the subject Microcontrollers (Sem IV, EXTC) where students learned the practical approach of the microcontrollers using simulation tools.

**Participative learning:** We always strive to enhance the learning experience of learners in class through various interactive and participatory approaches apart from traditional teaching. Various approaches used are- Think-Pair-Share, Flipped Classroom, Peer Instruction, Group Discussion, etc. For example, the Flipped classroom was conducted in subject MAD, BE IT(VII SEM) where students were asked to prepare from the shared eBooks and ppt, and the assessment

was conducted in the classroom.

**Problem-based learning:** Students are given exposure to various problem-solving methodologies by solving real-world problems, design problems, and case studies. For example, in the data structures course of SECE, sem III, the students were posed with an open problem as given below and were guided to solve it systematically by the teacher.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Link for additional information	<a href="https://drive.google.com/file/d/1s12Z9UA51x4pq2q7RKINyT88YaqOrkp7/view?usp=sharing">https://drive.google.com/file/d/1s12Z9UA51x4pq2q7RKINyT88YaqOrkp7/view?usp=sharing</a>

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

In SIESGST, the classrooms and labs are ICT-enabled with projectors installed, and the campus is enabled with a high-speed wifi connection. The faculty at SIESGST use various ICT enabled tools to enhance the quality of teaching-learning like-

1. MS Teams is used to conduct online classes and upload learning material and class recordings.
2. MS forms are used to conduct an online assessment in the form of internal assessment, quizzes, class tests, etc.
3. ERP system (Juno- <https://siesedu.in/>) is used to manage student attendance, timetable, post-course learning material, and conduct continuous assessments like lab submissions and evaluations, assignments, etc.
4. The edited video lectures are uploaded by faculty on online platform like YouTube and website for students.
5. Virtual labs are used to conduct labs through simulations.
6. Online drawing tools like concept maps, mind maps, are used to perform student centric activities.
7. Media lab facility is used to create video lectures and upload in appropriate platforms for students to use as

extra learning resources.

8. Lab manuals are mailed to students well in advance the experiment is performed.
9. Online quizzes and polls are regularly conducted to record the feedback of the students.
10. To teach mathematical subjects in online mode, teachers have used various online tools like whiteboard in Microsoft teams.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	<a href="https://siesgst.edu.in/docs/AQAR_2020-21/ICT-tool-Report.pdf">https://siesgst.edu.in/docs/AQAR_2020-21/ICT-tool-Report.pdf</a>

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

#### 2.3.3.1 - Number of mentors

83

File Description	Documents
Upload, number of students enrolled and full time teachers on roll.	<a href="#">View File</a>
Circulars pertaining to assigning mentors to mentees	<a href="#">View File</a>
mentor/mentee ratio	<a href="#">View File</a>

### 2.4 - Teacher Profile and Quality

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

84



File Description	Documents
Full time teachers and sanctioned posts for year (Data Template)	<a href="#">View File</a>
Any additional information	No File Uploaded
List of the faculty members authenticated by the Head of HEI	<a href="#">View File</a>

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

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

19

File Description	Documents
Any additional information	<a href="#">View File</a>
List of number of full time teachers with Ph. D. / D.M. / M.Ch./ D.N.B Super specialty / D.Sc. / D.Litt. and number of full time teachers for year(Data Template)	<a href="#">View File</a>

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

##### 2.4.3.1 - Total experience of full-time teachers

772

File Description	Documents
Any additional information	No File Uploaded
List of Teachers including their PAN, designation, dept. and experience details(Data Template)	<a href="#">View File</a>

#### 2.5 - Evaluation Process and Reforms

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

The college being affiliated to University of Mumbai, follows the examination ordinances issued by affiliated University from time to time.

Internal assessment comprises of internal tests which are two separate heads of passing as per the syllabus scheme prescribed by the University of Mumbai. The internal assessment are planned as per the University academic calendar and informed to students and faculty in the start of the semester.

Two internal tests are conducted for 20 marks and an average of two tests is considered as 20% of the total weightage in each theory subject along with an end semester examination of 80 marks. The first test happens within 45 days of college reopening in such a way that at least 40% syllabus should have been covered in the class and the second test is scheduled after the next 40 % is covered.

The solution of the test along with the question-wise marking scheme is prepared and shared with students after the exam to maintain transparency and uniformity in the assessment of internal tests.

The internal assessments are routinely monitored by Internal Quality Committees to ensure that they meet the learning outcomes outlined in the course syllabus and the questions at various Blooms' levels are covered.

File Description	Documents
Any additional information	No File Uploaded
Link for additional information	<a href="https://drive.google.com/file/d/1T3xwxgIMwztFkRX0r1sHuxMu7CLCy8st/view?usp=sharingvuQ3-1iqu/view?usp=sharing">https://drive.google.com/file/d/1T3xwxgIMwztFkRX0r1sHuxMu7CLCy8st/view?usp=sharingvuQ3-1iqu/view?usp=sharing</a>

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

The Institution adheres to the university ordinances related to grievances in internal examinations

We follow a transparent, time-bound, and efficient method in terms of dealing with internal examination-related grievances. Various internal examinations are being performed

throughout the semester.

#### Internal Assessments (Test 1 and Test 2):

The faculty evaluates the papers within a week of the conduction of the test. The evaluated answer sheets are shown to students in class and faculty undertakes individual grievances with a student on the paper if required by the student.

#### Assignments-

Faculty evaluates assignments based on the rubric which is also shared with the students. The rubric consists of criteria- timely submission, clarity, neatness, etc. The evaluated assignments are given back to students thus maintaining the transparency of the marks assigned and resolving grievances if any.

#### Lab experiments-

The lab submissions are taken in LMS, e.g. Google classroom, and the marks given by the faculty are available to the students immediately, thus providing a transparent way for students to reflect on their strengths and areas of improvement.

#### Project evaluation-

In a semester two internal evaluations of the project are conducted in front of the panel consisting of a group of faculties.

File Description	Documents
Any additional information	<a href="#">View File</a>
Link for additional information	Nil

## 2.6 - Student Performance and Learning Outcomes

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

The Course outcomes of all courses offered are prepared by the respective course instructor at the start of the semester

and uploaded on the college website. The subject teacher maintains a teaching plan in which around six-course outcomes are written, which are measurable, precise, and maps across all cognitive levels of Bloom's taxonomy.

The introductory lecture for all courses is meant for communicating the COs to the students. COs are revised, if a need is, after seeking approvals from the department level committee.

The Program Outcomes (POs) which are based on Graduate attributes are disseminated amongst all stakeholders and are prominently displayed on Department notice boards, laboratories, classrooms, college brochures, and also the institute website.

Program Specific Outcomes (PSOs) and Program Educational Objectives (PEOs) have been defined and stated after much deliberations and the involvement of stakeholders. This has been done for all undergraduate programs being offered at the institute. They are also disseminated amongst all stakeholders and are prominently displayed on Department notice boards, laboratories, classrooms, college brochures, and also the institute website along with the POs.

In our institution, every faculty member understands the concept of Outcome-based education and diligently tries to ensure that outcome attainments are met.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for Additional information	<a href="https://siesgst.edu.in/computer-engineering">https://siesgst.edu.in/computer-engineering</a>
Upload COs for all courses (exemplars from Glossary)	<a href="#">View File</a>

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

We follow a systematic process of measuring attainment levels of Programme Outcomes (PO), Program Specific Outcomes (PSO),

and Course Outcomes (COs). The steps followed are-

1. Faculty formulates COs for their respective subjects every semester.
2. The COs are mapped to POs and PSOs.
3. The COs are continuously assessed during the semester using various assessment techniques like unit tests, assignments, class tests, lab assignments, lab experiments, project evaluation, etc. The assessment questions given in tests are mapped to COs and the student scores of these test questions are used to calculate the attainment level of the COs.
4. The target attainment levels are set for each course based on previous results, for example, the average of the last three years' results is calculated to set the current year target attainment levels.
5. At the end of the semester, the attainment levels of each CO are calculated based on the assessment evaluation.
6. The CO attainment levels are used to calculate the attainment level of each PO and PSO, as shown in the table below.
7. Finally, a consolidated table is used to calculate the attainment level of each PO/PSO across all courses from the first year to the final year department-wise.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for Additional information	<a href="https://drive.google.com/file/d/1Hv23UV66H0QHV8GZZDkuzWYnpWcaLqOg/view?usp=sharing">https://drive.google.com/file/d/1Hv23UV66H0QHV8GZZDkuzWYnpWcaLqOg/view?usp=sharing</a>

### 2.6.3 - Pass percentage of Students during the year

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

474

File Description	Documents
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Paste link for the annual report	<a href="https://drive.google.com/file/d/1zhnpd1T7lKtbFiHkttO7uoMhcx2t4e-y/view?usp=sharing">https://drive.google.com/file/d/1zhnpd1T7lKtbFiHkttO7uoMhcx2t4e-y/view?usp=sharing</a>

## 2.7 - Student Satisfaction Survey

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

[https://siesgst.edu.in/docs/AOAR\\_2020-21/2.7.1-Student\\_Satisfaction\\_survey.pdf](https://siesgst.edu.in/docs/AOAR_2020-21/2.7.1-Student_Satisfaction_survey.pdf)

## RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 - Resource Mobilization for Research

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

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

0

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

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

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

0

File Description	Documents
List of research projects and funding details (Data Template)	No File Uploaded
Any additional information	No File Uploaded
Supporting document from Funding Agency	No File Uploaded
Paste link to funding agency website	Nil

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

79

File Description	Documents
Report of the event	<a href="#">View File</a>
Any additional information	No File Uploaded
List of workshops/seminars during last 5 years (Data Template)	<a href="#">View File</a>

**3.2 - Research Publications and Awards****3.2.1 - Number of papers published per teacher in the Journals notified on UGC website during the year****3.2.1.1 - Number of research papers in the Journals notified on UGC website during the year**

39

File Description	Documents
Any additional information	<a href="#">View File</a>
List of research papers by title, author, department, name and year of publication (Data Template)	<a href="#">View File</a>

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

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

39

File Description	Documents
Any additional information	<a href="#">View File</a>
List books and chapters edited volumes/ books published (Data Template)	<a href="#">View File</a>

### 3.3 - Extension Activities

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

At SIES Graduate School of Technology, we believe in the holistic growth of students and enable them to realize their social responsibilities. A vital part is its zestful National Service Scheme (NSS) Unit which diligently engages students in solving social problems. NSS takes charge in working towards a cleaner environment, educating the underprivileged, spreading awareness about the importance of Sex Education, organizing annual drives like the Blood Donation camp and Swachh Bharat initiative. In the 7-day camp, volunteers work tirelessly to achieve a common goal - the development of villages. Virtual help was extended to the Warap village despite the pandemic situation. The Student Council along with NSS celebrates all the days of national importance by performing skits on social issues and patriotic songs to keep the essence of nationalism alive. Our students are given an opportunity to pursue their interests in Art, Music, Dance, sports and technical skills and create an educational hub to gear up everyone towards making them wholesome



intellectually, emotionally, creatively and physically. Model United Nations, Tedx@SIESGST, Bizence - A business solution and Promethean - An engineering solution to environmental problems are just a few, of the plethora of options for students to explore at SIESGST.

File Description	Documents
Paste link for additional information	<a href="https://www.instagram.com/nss_siesgst/?hl=en">https://www.instagram.com/nss_siesgst/?hl=en</a>
Upload any additional information	<a href="#">View File</a>

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

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

7

File Description	Documents
Any additional information	<a href="#">View File</a>
Number of awards for extension activities in last 5 year(Data Template)	<a href="#">View File</a>
e-copy of the award letters	<a href="#">View File</a>

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

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

55

File Description	Documents
Reports of the event organized	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
Number of extension and outreach Programmes conducted with industry, community etc for the last year (Data Template)	<a href="#">View File</a>

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

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

3734

File Description	Documents
Report of the event	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
Number of students participating in extension activities with Govt. or NGO etc (Data Template)	<a href="#">View File</a>

### 3.4 - Collaboration

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

344

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

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

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

14

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

## INFRASTRUCTURE AND LEARNING RESOURCES

### 4.1 - Physical Facilities

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

At SIESGST, efficient teaching and learning is achieved through traditional classroom teaching, practical training through state of art laboratories. The Institute has adequate infrastructure as per the AICTE norms. The campus of GST is spread in the area of 24795.64 sq. m. with the total constructed area of 15113.82 sq.m.

SIESGST ensures safety and security by monitoring the campus locality, covered under CCTV surveillance. The infrastructural facilities includes; Lecture Halls, Tutorial rooms, Drawing Halls, Seminar Halls, Laboratory, Library, TPO Office, First Aid Room, Counselling Centre, Office, Exam Cell, Assessment Rooms, Workshops, Seminar Hall, Auditorium, E-Learning Studio, Photocopy Centre, Canteens, Gymkhana, Open Amphitheatre and other facilities including HOD Rooms, Faculty Rooms, BCR and GCR and Store rooms.

In SIESGST each department has well equipped laboratories with excellent software and necessary hardware with an overall investment of more than 10 crores. Some of the major

laboratory equipment that can be listed are NI lab view, vibrometer, CNC lathe, microwave bench, Blown-film extrusion, Offset printing machine, Injection and blow moulding machine. Institute has a well set up central computing facility in the area of 154 sq. m. where students, as well as faculty, can avail the facility of internet and audio-visual aids.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://drive.google.com/file/d/1llAGM4ecRPInwly-TV64-zgf-BE8BH-z/view?usp=sharing">https://drive.google.com/file/d/1llAGM4ecRPInwly-TV64-zgf-BE8BH-z/view?usp=sharing</a>

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

The Institution has adequate facilities for cultural activities, sports, games (indoor, outdoor) and gymnasium.

The Student council of SIES GST is well organized and has two dedicated positions as sports secretary to manage the sports events. Faculty sports in charge plans the sports activities along with the student members without hampering the academics. The college provides facilities for indoor sports, and the outdoor games are conducted in coordination with municipal corporation/ gymkhanas outside or in the vicinity of the institute.

SIES GST has an in-house gymnasium facility and the faculty and students can avail after the lecture hours and a dedicated space for Yoga and Meditation for improving the mental and physical health of faculty and students.

The Student council of SIES GST has a team to organize various cultural events on various occasions such as first-year orientation, farewell, teacher's day, National Festivals, Annual Festivals, Open Mic, Music Charity Concert, Funfairs, and the end-of-the-year farewell etc. The institute has enriched students with dedicated clubs that helps in boosting their inherent talents. The college also has open-air lawn and amphitheater for the creation of a supportive atmosphere and facilities.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://drive.google.com/file/d/1q7gtzJ-8XSmhkOfzGoQhgmzpZnjNBnnQ/view?usp=sharing">https://drive.google.com/file/d/1q7gtzJ-8XSmhkOfzGoQhgmzpZnjNBnnQ/view?usp=sharing</a>

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

35

##### 4.1.3.1 - Number of classrooms and seminar halls with ICT facilities

35

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	<a href="https://drive.google.com/drive/folders/1Tsw6L1zgfQYrAPC0tn0BLxE8Jx19d574?usp=sharing">https://drive.google.com/drive/folders/1Tsw6L1zgfQYrAPC0tn0BLxE8Jx19d574?usp=sharing</a>
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	<a href="#">View File</a>

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

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

31.08

File Description	Documents
Upload any additional information	No File Uploaded
Upload audited utilization statements	<a href="#">View File</a>
Upload Details of budget allocation, excluding salary during the year (Data Template)	<a href="#">View File</a>

## 4.2 - Library as a Learning Resource

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

Juno Campus of the library module is one stop shop solution for all library automation activities. The software is user friendly and very useful in automating the various functions of library including configuration of branches, circulation modules, branch-wise membership registration of users, access rights, management of bibliographical data of various items such as books/journals/e-journals/CDs, cataloguing of books, facility to convert legacy data, data backup, online line public access catalogue (Web OPAC), book reservation, book bank management etc.

The unique feature of the software is the provision to generate various kinds of library reports such as author and title-wise details of books, list of e-books, bound volume of journals, flexible and customization in generation of reports, downloading accession register, digital library, barcode generation of books, overall statistics of various items, stock verification etc. Besides, software is compatible with library standards and software is being used by number of libraries across the country.

Besides, library has set up Dspace e-repository and NPTEL video lectures which can be accessed within the campus. In addition to that library provides photocopy and internet with wi-fi facility to access e-resources throughout the campus. Library has a separate portal providing useful information which can be accessed: <https://librarygst.wixsite.com/library>

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for Additional Information	<a href="https://librarygst.wixsite.com/library">https://librarygst.wixsite.com/library</a>
<b>4.2.2 - The institution has subscription for the following e-resources e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access toe-resources</b>	<b>A. Any 4 or more of the above</b>
File Description	Documents
Upload any additional information	<a href="#">View File</a>
Details of subscriptions like e-journals,e-ShodhSindhu, Shodhganga Membership etc (Data Template)	<a href="#">View File</a>
<b>4.2.3 - Expenditure for purchase of books/e-books and subscription to journals/e-journals during the year (INR in Lakhs)</b>	
<b>4.2.3.1 - Annual expenditure of purchase of books/e-books and subscription to journals/e- journals during the year (INR in Lakhs)</b>	
<b>16.36</b>	
File Description	Documents
Any additional information	<a href="#">View File</a>
Audited statements of accounts	<b>No File Uploaded</b>
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	<a href="#">View File</a>
<b>4.2.4 - Number per day usage of library by teachers and students ( foot falls and login data for online access) (Data for the latest completed academic year)</b>	
<b>4.2.4.1 - Number of teachers and students using library per day over last one year</b>	
<b>0.240</b>	

File Description	Documents
Any additional information	<a href="#">View File</a>
Details of library usage by teachers and students	No File Uploaded

### 4.3 - IT Infrastructure

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

The institute has always given priority for up-gradation of IT facilities. The description of the same is provided below

- **Internet Connection:** The institute has an available internet bandwidth of 100 MBPS provided by JIO that is latest renewed in 2020. A second backup line by TATA is provided with bandwidth of 20MBPS.
- **Media Lab/Video Lecture making Facility:** The institute has a well equipped media lab where faculties can prepare their video lectures.
- **Firewall/Security:** GST uses firewall service from Sophos-XG 330 and the support license is renewed every year.
- **Power backup:** GST has a centralized power backup.
- **Antivirus:** GST uses F-Secure antivirus.
- **Licensed softwares:** Institute has various softwares needed for academic purposes which includes Oracle, Flash Pro, Photoshop etc.
- **Annual Maintenance:** GST has an on call basis maintenance.
- **Online Lectures:** The institute has licensed versions of G Suite and Microsoft Office Suite (Microsoft Teams) via which the online lectures and practicals from March 2020 are being conducted.
- **Plagiarism Software:** GST uses licensed version of URKUND software
- **ERP System:** The institute uses the JUNO ERP system for recording details like student attendance, student journal submissions, staff leave management, student railway concessions etc .



File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://siesgst.edu.in/docs/AQAR_2020-21/4.3.1.pdf">https://siesgst.edu.in/docs/AQAR_2020-21/4.3.1.pdf</a>

**4.3.2 - Number of Computers**

610

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Student – computer ratio	<a href="#">View File</a>

**4.3.3 - Bandwidth of internet connection in the Institution**

A. ? 50MBPS

File Description	Documents
Upload any additional Information	<a href="#">View File</a>
Details of available bandwidth of internet connection in the Institution	<a href="#">View File</a>

**4.4 - Maintenance of Campus Infrastructure****4.4.1 - Expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the year (INR in Lakhs)****4.4.1.1 - Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component during the year (INR in lakhs)**

30.38

File Description	Documents
Upload any additional information	No File Uploaded
Audited statements of accounts.	<a href="#">View File</a>
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	<a href="#">View File</a>

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

SIES GST follows well defined processes for maintaining and utilizing physical, academic and support facilities. The annual maintenance of physical, academic and support facilities are carried out by the respective departments. The infrastructure, equipment and other facilities such as lifts, fire extinguishers, fire systems, generator, UPS, air conditioners, water purifiers, water coolers, photocopy machines, laboratory equipment, computer systems are maintained by the external agencies.

The maintenance is carried out throughout the year and as and when required. The system administrator maintains the network related equipment's like switches, routers, access-points, and also looks after the CCTV security system. The institute has on campus electrician for repairs and maintenance of the electrical equipments.

The registrar, HOD and the principal regularly monitor the facilities as a protocol, that are followed by the institute.

The repair and maintenance by an external agency are managed by inviting quotations from multiple vendors and finalized by the purchase team. The purchase requisitions are raised by individual department coordinators followed by purchase orders, invoice preparations etc. For major civil works the estate committee, consisting of the Head of the Institute, estate manager and management representative decides the course of action.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	Nil

## STUDENT SUPPORT AND PROGRESSION

### 5.1 - Student Support

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

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

456

File Description	Documents
Upload self attested letter with the list of students sanctioned scholarship	<a href="#">View File</a>
Upload any additional information	No File Uploaded
Number of students benefited by scholarships and free ships provided by the Government during the year (Data Template)	<a href="#">View File</a>

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

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

22

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

<b>5.1.3 - Capacity building and skills enhancement initiatives taken by the institution include the following: Soft skills Language and communication skills Life skills (Yoga, physical fitness, health and hygiene) ICT/computing skills</b>	<b>A. All of the above</b>
<b>File Description</b>	<b>Documents</b>
Link to institutional website	<a href="https://siesgst.edu.in/docs/AQAR_2020-21/5.1.3.pdf">https://siesgst.edu.in/docs/AQAR_2020-21/5.1.3.pdf</a>
Any additional information	<b>No File Uploaded</b>
Details of capability building and skills enhancement initiatives (Data Template)	<a href="#">View File</a>
<b>5.1.4 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year</b>	
<b>1320</b>	
<b>5.1.4.1 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year</b>	
<b>1320</b>	
<b>File Description</b>	<b>Documents</b>
Any additional information	<a href="#">View File</a>
Number of students benefitted by guidance for competitive examinations and career counseling during the year (Data Template)	<a href="#">View File</a>
<b>5.1.5 - The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases Implementation of guidelines of statutory/regulatory bodies Organization wide awareness and undertakings on policies with zero tolerance Mechanisms for submission of online/offline students' grievances Timely redressal of the grievances through appropriate committees</b>	<b>A. All of the above</b>

File Description	Documents
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	<a href="#">View File</a>
Upload any additional information	No File Uploaded
Details of student grievances including sexual harassment and ragging cases	<a href="#">View File</a>

## 5.2 - Student Progression

### 5.2.1 - Number of placement of outgoing students during the year

#### 5.2.1.1 - Number of outgoing students placed during the year

202

File Description	Documents
Self-attested list of students placed	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>

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

#### 5.2.2.1 - Number of outgoing student progression to higher education

29

File Description	Documents
Upload supporting data for student/alumni	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
Details of student progression to higher education	<a href="#">View File</a>

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

#### 5.2.3.1 - Number of students qualifying in state/ national/ international level

**examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations) during the year**

96

File Description	Documents
Upload supporting data for the same	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

### 5.3 - Student Participation and Activities

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

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

50

File Description	Documents
e-copies of award letters and certificates	<a href="#">View File</a>
Any additional information	No File Uploaded
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national/international level (During the year) (Data Template)	<a href="#">View File</a>

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

SIESGST has a very active Student's Council (SC) and each department has a student council for their professional body like IETE, IEEE, CSI, IPI, SAE and ISHRAE. Every year the student council members are elected through a well-established process. 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 firsthand expertise and a better understanding of these fields. Several clubs such as music, dramatics, literary, robotics also works along with SC. 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), ICC, anti-ragging, IQAC, CDC and ISR. The Technical Team of SC also contributes towards development of apps and web portals to improve the processes. Involvement of the students in various administrative bodies have improved their managerial and leadership qualities and made them more responsible and have strengthened their bonding with the Institute.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	<a href="#">View File</a>

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

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

130

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

### 5.4 - Alumni Engagement

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

SIESGST Alumni Association was formed in 2012. Alumni meet provides a platform for the ex-students to interact with the Institute. Alumni meet is the annual gathering of SIES GST Alumni, which is held on the first Saturday of January. Many star alumni who are currently pursuing and completed higher studies from institutes of eminence, India and Abroad, are holding eminent and illustrious positions in various multinational companies. They have also been contributing to the NSS unit. 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. Expert speaker: Alumni are invited for guest lectures in their respective domains training programmes, coding competition, for induction programs for the First Year students etc. Alumni are also invited as a visiting faculty in PPT department. They also help us to mitigate the identified gaps through beyond syllabus activities like handson workshops, guest lectures . IQAC: Alumni are active members of IQAC and their inputs are helping us for quality enhancements. Placements: Alumni facilitate campus recruitment by suggesting their companies. Some of the alumni are members of Department Advisory Board.

File Description	Documents
Paste link for additional information	<a href="https://drive.google.com/drive/folders/1c0jiUYY-gNbE4ceSablN8dYJE_710ZlE?usp=sharing">https://drive.google.com/drive/folders/1c0jiUYY-gNbE4ceSablN8dYJE_710ZlE?usp=sharing</a>
Upload any additional information	<a href="#">View File</a>

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

**E. <1Lakhs**

File Description	Documents
Upload any additional information	<a href="#">View File</a>

## **GOVERNANCE, LEADERSHIP AND MANAGEMENT**

### **6.1 - Institutional Vision and Leadership**

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



The Vision and Mission of the Institute is set with the involvement of all stakeholders, considering the need of the society. The Institute prepares the strategic plan which is executed by the departments.

**Vision of the Institute:** To be a centre of excellence in Education and Technology committed towards Socio-Economic advancement of the country.

**The Mission of the Institute:**

- To impart advanced knowledge in Engineering and Technology.
- To transform young minds towards professional competence by inculcating values and developing skills.
- To promote research and ensure continuous value addition among students and employees.
- To strengthen association with industry, research organizations and alumni to enhance knowledge on current technologies.
- To promote next generation technocracy and nurture entrepreneurial culture for social-economic growth.

**Strategic / Perspective plan:**

1. To enrich curriculum
2. To incorporate digital platform to improve teaching-learning process
3. To encourage research and consultancy, industry-institute interaction and entrepreneurship activities.
4. To strengthen alumni engagement and enhance student experience.
5. To enhance contribution towards society and the environment.
6. To initiate new courses at PG and UG level.
7. To formulate development plans to improve the overall quality of the institute

File Description	Documents
Paste link for additional information	<a href="https://siesgst.edu.in/about-sies">https://siesgst.edu.in/about-sies</a>
Upload any additional information	<a href="#">View File</a>

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

Institute has various statutory and non statutory committees with different roles including planning and effective execution of the academic and administrative activities. To demonstrate decentralization and participative management, the case study related to Teaching learning process is mentioned here.

At the Institution level, Academic council committee consists of the Advisor, Principal, Vice-Principal, HODs, IQAC coordinator, Registrar and Section Heads. Academic Council Committee is responsible for holistic development of the college and to recommend on the enhancement of student facilities, students' life and experiences at the Institute.

The Head of the Department collects the choice of subject from faculty in the department well before commencement of the semester. Assigns the subject to the faculty based on the expertise and choice.

The Subject in charge along with course coordinators frame/modify COs ,CO-PO mapping and prepares session plan with various active learning strategies.

HODs also ensure that the academic calendar is followed and academic discipline is maintained at all levels in the delivery of course content, conduct of examinations, assessment of theory as well laboratory. Faculty feedback is taken twice in semester and transparency is maintained to improve the content delivery.

File Description	Documents
Paste link for additional information	<a href="https://drive.google.com/file/d/1PlymcDC5431SvfEPkvNWtR5nVBY_Myl-/view?usp=sharing">https://drive.google.com/file/d/1PlymcDC5431SvfEPkvNWtR5nVBY_Myl-/view?usp=sharing</a>
Upload any additional information	<a href="#">View File</a>

## 6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ perspective plan is effectively deployed

Strategic Plan was prepared for the year 2018-25. It sets out specific targets in every sphere of activity of the Institute—academic programs, research, collaboration with industry, human resource development, entrepreneurship, development of infrastructure and facilities, student life, placement, community outreach, international and alumni relations.

These targets have been set after extensive consultation to ensure that they are both ambitious and achievable. The targets are achieved by contributions of stakeholders—faculty, staff, students, alumni, international partners and industry experts.

To ensure effective implementation of strategic objectives each department submits the compliance report with respect to the well-defined following goals. To measure the effectiveness of each goal, it is broken down into various elements.

For example, to improve the skill enhancement in students the institute conducts project-based internship during summer and winter breaks in various domains such as 3D printing, Artificial Intelligence, Robotics etc. Various stake holders are involved in planning and execution of these SDPs and internal internship. The curriculum is framed by the faculty members and validated from industry experts. The effectiveness of these programs is measured by skill test at the end of program and certification is given to each student after successfully completing the internship.

File Description	Documents
Strategic Plan and deployment documents on the website	<a href="#">View File</a>
Paste link for additional information	<a href="https://siesgst.edu.in/docs/STRATEGIC_PLAN-Deployment_2018_21.pdf">https://siesgst.edu.in/docs/STRATEGIC_PLAN-Deployment_2018_21.pdf</a>
Upload any additional information	<a href="#">View File</a>

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

The institute has a vision to be a centre of excellence in Education and Technology committed towards socio-economic advancement of the country. There is a well developed organizational structure comprising of the Stakeholders and the Governing Body (SIES President and managing council), Principal, HoDs, staff and Section Heads. It reviews the institutional strategic plan, finance, infrastructure, recruitment and matters related to the overall development of the institute. Various stakeholders of the institute are members of different committees constituted by the Department/Institution. Committees follow the organizational hierarchy for any decision-making procedures. As per the university/ government guidelines, IQAC Cell, Anti-ragging Cell, grievance redressal committee and Internal Complaints committee etc. are also in place for the institution. There are statutory and non statutory committees with well-defined functions that give academic and administrative leadership to the institution. SIESGST strictly follows the service rules according to the AICTE norms and available on the college website. Recruitment process is carried out according to the norms of the University of Mumbai. The staff have the benefits of PF, Gratuity, Maternity leave, Mediclaim, and other benefits as applicable. The institution follows transparent promotional policies through Appraisal forms and Academic Performance Indicators.

File Description	Documents
Paste link for additional information	<a href="https://drive.google.com/drive/folders/1VpgOs-T06m56AMzc6bQuu47X3wgcXCC7?usp=sharing">https://drive.google.com/drive/folders/1VpgOs-T06m56AMzc6bQuu47X3wgcXCC7?usp=sharing</a>
Link to Organogram of the Institution webpage	<a href="https://apc01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fsiesgst.edu.in%2Fcontent.php%3Fid%3D90&amp;data=04%7C01%7Chodextc%40sies.edu.in%7Ce1b6578d0f95406d37fe08da00140863%7C405ddc34d66046e5b52dbfd0be156bb5%7C0%7C0%7C637822383287023526%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ikl1haWwiLCJXVCI6Mn0%3D%7C3000&amp;sdata=EBmTAKdkMoN6zWkirEYNMeZ%2BAjdmr68dy9ojI1kzEs0%3D&amp;reserved=0">https://apc01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fsiesgst.edu.in%2Fcontent.php%3Fid%3D90&amp;data=04%7C01%7Chodextc%40sies.edu.in%7Ce1b6578d0f95406d37fe08da00140863%7C405ddc34d66046e5b52dbfd0be156bb5%7C0%7C0%7C637822383287023526%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ikl1haWwiLCJXVCI6Mn0%3D%7C3000&amp;sdata=EBmTAKdkMoN6zWkirEYNMeZ%2BAjdmr68dy9ojI1kzEs0%3D&amp;reserved=0</a>
Upload any additional information	<a href="#">View File</a>

### 6.2.3 - Implementation of e-governance in areas of operation Administration Finance and Accounts Student Admission and Support Examination

A. All of the above

File Description	Documents
ERP (Enterprise Resource Planning) Document	<a href="#">View File</a>
Screen shots of user interfaces	<a href="#">View File</a>
Any additional information	<b>No File Uploaded</b>
Details of implementation of e-governance in areas of operation, Administration etc (Data Template)	<a href="#">View File</a>

### 6.3 - Faculty Empowerment Strategies

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

**The Institute has a welfare mechanism in place, for teaching and non-teaching staff.**

**Teaching Staff:**

- As per the norms of AICTE, Pay commission recommendations are implemented.
- Extending EPF Scheme is implemented to all eligible members (as per PF Rules)
- Group insurance facility .
- Maternity Leave of 6 months with pay and extension of additional leave if required.
- College organizes free and periodic health checkups.
- Felicitation for acquiring higher degree.
- Bank and ATM facility in campus.
- Free canteen coupons.
- Grievance/suggestion box.
- Quota in admission for employees' children in any of the SIES Institutions .
- SIES Jeevan Raksha Vaccination drive was conducted for teaching staff.
- Safe drinking water facility.
- Encouragement of R&D culture by providing on duty leave.

**Non-Teaching Staff:**

- Extending EPF Scheme is implemented to all eligible members (as per PF Rules)
- Group insurance facility.
- College organizes free, periodic health checkups.
- Uniform is provided for supporting staff.
- Maternity, Medical leaves / vacation is sanctioned for the required staff.
- Bank and ATM facilities are available in the campus.
- SIES Jeevan Raksha Vaccination drive was conducted for non-teaching staff.

File Description	Documents
Paste link for additional information	<a href="https://drive.google.com/drive/folders/1E7EjCS7bFLqu-rK49EA-DOfbF9TT03lj?usp=sharing">https://drive.google.com/drive/folders/1E7EjCS7bFLqu-rK49EA-DOfbF9TT03lj?usp=sharing</a>
Upload any additional information	<a href="#">View File</a>

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

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

5

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	<a href="#">View File</a>

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

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

12

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

**6.3.4 - Number of teachers undergoing online/face-to-face Faculty development Programmes (FDP) during the year (Professional Development Programmes,**

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

62

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

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

Institute follows a well-defined and framed model of performance appraisal system namely Academic Performance Indicator as per UGC guidelines.

It is based on Teaching, learning and evaluation related activities such as Lectures, tutorials, practical hours, remedial lectures, use of innovative methodologies and examination duties. Professional development, co-curricular and extension activities. Research and Academic Contribution like Research papers published in refereed journal, conference proceedings, Book and Book Chapter, ongoing and completed Research projects and consultancies and Training courses.

Student feedback helps to measure quality of teaching-learning processes and effectiveness of course design and delivery.

**Performance Appraisal Process:**

Every year faculty fills confidential report at the end of the academic year. The confidential report is reviewed by the



HOD and the Principal and submitted to HR for further consideration for appreciation or corrective action.

Also, every faculty updates details of faculty contribution and performance appraisal in the faculty handbook.

**Performance Appraisal System of Non-Teaching Staff:**

Every non-teaching staff also fills a self-appraisal form at the end of the academic year. The self-appraisal is first reviewed by the HOD for Technical staff and by the Registrar for the administrative staff and then by the Principal. The self-appraisal reports is then sent to HR for further considerations.

File Description	Documents
Paste link for additional information	<a href="https://drive.google.com/drive/folders/1-UKf8P1Pc-bb9fggLhUdkD8SDDscS6qe?usp=sharing">https://drive.google.com/drive/folders/1-UKf8P1Pc-bb9fggLhUdkD8SDDscS6qe?usp=sharing</a>
Upload any additional information	<a href="#">View File</a>

#### **6.4 - Financial Management and Resource Mobilization**

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

The Institute conducts 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

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

**6.4.2 - Funds / Grants received from non-government bodies, individuals, philanthropers during the year (not covered in Criterion III)****6.4.2.1 - Total Grants received from non-government bodies, individuals, Philanthropers during the year (INR in Lakhs)**

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

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

SIES Graduate School of Technology is a private unaided institute. It has a well-defined financial policy which ensures optimal utilization of finances for academic, administrative and research activities. The institute is being run with self sufficient funds generated from tuition fee and other miscellaneous incomes. In case of shortage of funds, the management supports by providing the finance.

In case of activities like expansion and renovation of building, the management always supports by providing required finance. Financial planning is done at the beginning of the academic year well in advance with efficient budgeting involving all the Heads of Academic Departments and Administrative Sections. Apart from the tuition fee, the resource mobilization is mainly done through

- Interest on Corpus
- Consultancy Charges
- Endowments
- Research Grants
- Sponsorship
- Funds from University for NSS Activities
- Sale of Application Forms

The management reviews all the financial activities through scrutiny of budgets and expenses in every quarter. Through centralized purchase the funds are monitored and utilized in an effective manner.

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

## 6.5 - Internal Quality Assurance System

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

SIESGST had a very active and effective ISO 9001:2008 Quality Management System (2005-17) and same is now being continued under the IQAC.

The two best practices presently institutionalized under IQAC are:

### 1. Initiatives for proposed NBA Peer Team Visit:

Three departments were NBA accredited for the year 2012-14 and applied for the accreditation in 2019-20 for four departments namely Electronics & Telecommunication, Computer Engineering, Information Technology and Mechanical Engineering. The peer team visit was due in April 2020, but due to Pandemic it was rescheduled in March 2021. After the assessment, accreditation was granted for 03 years 2012-24.

The initiatives taken for the same include delegation of work among Institution and Department Coordinators, Systematic documentation and maintenance of files, Internal & External Mock visits, arranging Department Advisory Board meetings, conducting academic and administrative audits.

## 2. Digital transformation of Academic and Administrative Processes:

Sudden outbreak of pandemic, led to digital transformation for academic & administrative processes. SIESGST provided the platforms such as G-Suite and Microsoft Office 365 for teaching-learning and various admin purposes. JUNO-ERP software was procured to maintain student, staff and office records by integrating various processes. Daily and weekly reports were prepared for effective monitoring and controlling academic activities.

File Description	Documents
Paste link for additional information	<a href="https://drive.google.com/file/d/1lCbeetU_jB3pp-3E-LuCI8tDy_UPid80/view?usp=sharing">https://drive.google.com/file/d/1lCbeetU_jB3pp-3E-LuCI8tDy_UPid80/view?usp=sharing</a>
Upload any additional information	<a href="#">View File</a>

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

### 1. Quality online teaching-learning process:

The sudden covid outbreak was managed by establishing quality online teaching learning process with the help of Microsoft Office 365. Common presentation template was shared by IQAC. Department wise sheets were shared to maintain the daily and weekly records of the sessions conducted by the faculty which included the lecture number, topics covered, time, number of students attended, and use of ICT tools etc. These reports were analysed by the vice principal. The video lectures were also monitored to maintain quality. Students and faculty were advised to attend online technical webinars, project competitions, short term training programs, coursera and NPTEL courses.

## 2. Outcome writing and Mapping

IQAC supports Outcome-Based Education (OBE). The Program Outcomes (POs) are adapted from NBA, program-specific outcomes are prepared by each program from the feedback obtained from stakeholders. The Course Outcomes are reframed as per Blooms Taxonomy and mapped to POs for the revised syllabus. To ensure the learning outcomes are achieved, internal assessments included subjective and objective questions. Higher cognitive level questions included in Assignments.

The Social-media was used to communicate with the students and peers. For conducting lectures in online mode various efforts have been taken by faculty members.

File Description	Documents
Paste link for additional information	<a href="https://drive.google.com/file/d/17UMJCi0UYklWflWL3iHJrddxNdIS5qxC/view?usp=sharing">https://drive.google.com/file/d/17UMJCi0UYklWflWL3iHJrddxNdIS5qxC/view?usp=sharing</a>
Upload any additional information	<a href="#">View File</a>

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

File Description	Documents
Paste web link of Annual reports of Institution	<a href="https://siesgst.edu.in/docs/AQAR_2020-21/SIES_Annual_Report_20-21.pdf">https://siesgst.edu.in/docs/AQAR_2020-21/SIES_Annual_Report_20-21.pdf</a>
Upload e-copies of the accreditations and certifications	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
Upload details of Quality assurance initiatives of the institution (Data Template)	<a href="#">View File</a>

## INSTITUTIONAL VALUES AND BEST PRACTICES

### 7.1 - Institutional Values and Social Responsibilities

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

Institute conducts various activities which are committed to gender equity. Focus of these events is gender sensitization and gender equality, awareness through health communication program. The Institution has established Internal Complaint Committee (ICC), Women Development Cell (WDC) and National Service Scheme (NSS) Cell to identify, address and conduct various programs on such issues. The institute has outsourced the security personnel, which consists of lady security personnel to ensure safety, security of girls. Institute has installed adequate number of CCTV cameras in the campus for safety and security. The institute also has common rooms for boys and girls separately. With an objective to support women throughout their careers - to empower, engage and enable them to rise to the best of their capabilities, the institute has conducted a program in association with CII. Women achievers are regularly invited to campus to motivate the girls. College students are educated through WDC and NSS cell to be sensitive towards issues of Gender bias, sexual harassment, Women empowerment, Dowry, Safety through skits and dramas. Experienced Lawyer was called to discuss Legal Formalities and Laws related to girls, POSH, laws against discrimination, substantive, and Procedural laws in case of sexual assault, procedure of registering complaint in ICC and related laws, important laws related to Cyber Crimes and legal procedure. etc.

File Description	Documents
Annual gender sensitization action plan	<a href="https://drive.google.com/file/d/1l2F5R79cy8w-1jH7skDW_5vb3oKx4uet/view?usp=sharing">https://drive.google.com/file/d/1l2F5R79cy8w-1jH7skDW_5vb3oKx4uet/view?usp=sharing</a>
Specific facilities provided for women in terms of: a. Safety and security b. Counseling c. Common Rooms d. Day care center for young children e. Any other relevant information	<a href="https://drive.google.com/file/d/1o31NfoWJQdH4oLOqDo8F64QVsCpVaUvp/view?usp=sharing">https://drive.google.com/file/d/1o31NfoWJQdH4oLOqDo8F64QVsCpVaUvp/view?usp=sharing</a>

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

**C. Any 2 of the above**

File Description	Documents
Geo tagged Photographs	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

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

SIES Graduate School of Technology believes in "Let's go green and keep our campus clean". The NSS unit of SIESGST has played a prominent role in this by organizing various awareness programs, conducting tree plantations and various other activities. Solid Waste Management to achieve a healthy and conducive environment on our campus, we strictly follow the waste segregation by employing Dry and Wet waste bins throughout the campus. The compost pit is maintained by the NSS volunteers. The compost obtained is filtered, processed and then distributed. There are 5 compost pits installed by SIESGST in association with Stri Mukti Sanghatna. The NSS volunteers collected all the unused ruled sheets available on the campus to make notebooks and are distributed among

underprivileged students. Corrugated boxes were upcycled to make creative dustbins that were placed in each classroom for collecting dry waste

E-waste generated in the campus is collected through the maintenance team and is safely disposed of through vendors. The students also gain awareness about E-waste management and its effects through various seminars. Various aspects of E-Waste like disposal, ill effects, recycling, limitations, etc. were discussed in this seminar. Due to lockdown, we did E waste awareness through online mode only.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	No File Uploaded
Geo tagged photographs of the facilities	<a href="https://drive.google.com/file/d/1GYVfftufiUsRmbflq54I0U1kcklsooK9/view?usp=sharing">https://drive.google.com/file/d/1GYVfftufiUsRmbflq54I0U1kcklsooK9/view?usp=sharing</a>
Any other relevant information	<a href="#">View File</a>

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

A. Any 4 or all of the above

File Description	Documents
Geo tagged photographs / videos of the facilities	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

**7.1.5 - Green campus initiatives include**

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

A. Any 4 or All of the above

**1. Restricted entry of automobiles**



<b>2. Use of Bicycles/ Battery powered vehicles</b> <b>3. Pedestrian Friendly pathways</b> <b>4. Ban on use of Plastic</b> <b>5. landscaping with trees and plants</b>	
File Description	Documents
Geo tagged photos / videos of the facilities	<a href="#">View File</a>
Any other relevant documents	<a href="#">View File</a>
<b>7.1.6 - Quality audits on environment and energy are regularly undertaken by the institution</b>	
<b>7.1.6.1 - The institutional environment and energy initiatives are confirmed through the following 1.Green audit 2. Energy audit 3.Environment audit 4.Clean and green campus recognitions/awards 5. Beyond the campus environmental promotional activities</b>	<b>A. Any 4 or all of the above</b>
File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	<a href="#">View File</a>
Certification by the auditing agency	<b>No File Uploaded</b>
Certificates of the awards received	<b>No File Uploaded</b>
Any other relevant information	<a href="#">View File</a>
<b>7.1.7 - The Institution has disabled-friendly, barrier free environment Built environment with ramps/lifts for easy access to classrooms. Disabled-friendly washrooms Signage including tactile path, lights, display boards and signposts Assistive technology and facilities for persons with disabilities (Divyangjan) accessible website, screen-reading software, mechanized equipment 5.</b>	<b>B. Any 3 of the above</b>

**Provision for enquiry and information :  
Human assistance, reader, scribe, soft  
copies of reading material, screen  
reading**

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

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

The institute provides a culturally inclusive environment with mutual respect, effective relationships, and clear communication. People of all cultural orientations work in harmony that is safe from abuse, harassment, or unfair criticism. Everyone has freedom to express their own opinions and are given equal opportunity to participate in teaching, learning, work, and social activities. Equal opportunities are provided to the students in various activities conducted throughout the session irrespective of their caste, creed, religion, and region. The institution has an active student council and NSS wing to inculcate a sense of unity, discipline, and harmony. The institution believes in equality of all cultures and traditions.

Anti-ragging cell acts as a key factor in maintaining tolerance and harmony among students. For the last decade there is not a single incidence of ragging which shows the efficient working of the cell. Grievance redressal committee is also constituted to address the grievances among students to maintain harmony in the college. Various cultures are represented during the fests which depict sense of respect towards all the cultures. Cultural and technical activities were organized in online mode during annual festival to promote harmony towards each other. A weeklong FE induction

is organized for the newbies to give them a delightful start to their four years of engineering journey. Exclusive competitions are organized by senior students for the first-year students. The bonds are strengthened when the learning takes place within the peer group. The student clubs also organized online cultural shows like Open Mic, Cultural Week.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

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

At SIESGST, we believe in giving holistic all-round education to the students and sensitizing students on our constitutional rights, values, duties and responsibilities is one of the primary educations given at the institute through various means. This helps the Institution to ensure the constitutional obligations are done through curriculum as well as through extra-curricular activities. In subjects like Cyber security students study various concepts related to cybercrime, cyberspace, Indian IT act etc. The subject Laws, Regulations and Sustainable Packaging is a core subject in PPT branch in which students learn all the packaging laws and regulations laid by Regulatory Bodies. Also, an elective is offered on Environment studies for all final year students which gives them insight into environment acts, wildlife protection acts etc. Seminars on topics like Right to Information, sexual harassment are conducted periodically. In the Right to Information seminar, various sections and categories of the act are explained. Institute organizes MUN (Model United Nations), a two-day international relations conference with the agenda to discuss issues related to nuclear disarmament, preventing potential human rights infringements emerging with the technological developments etc.

NSS unit conducts a cleanliness drive to mark the occasion of Swachh Bharat Abhiyan in the campus as well as in the nearby village area. An oath is taken by all students and faculties

to keep their surroundings clean.

File Description	Documents
Details of activities that inculcate values; necessary to render students in to responsible citizens	<a href="#">View File</a>
Any other relevant information	No File Uploaded

**7.1.10 - The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard. The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff**

**4. Annual awareness programmes on Code of Conduct are organized**

**B. Any 3 of the above**

File Description	Documents
Code of ethics policy document	<a href="#">View File</a>
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programs etc., in support of the claims	<a href="#">View File</a>
Any other relevant information	No File Uploaded

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

The institute starts its day with the national anthem. All national festivals are celebrated with great enthusiasm to inculcate a sense of patriotism in the students. Every year, students of the NSS unit and Students Council highlight social problems through performances like dance, skits,

speeches. Ex-defence or police personnel are invited to share their experience. The Institution also commemorates the birth/death anniversaries of great Indian personalities like Chatrapati Shivaji Maharaj and Mahatma Gandhi, sharing the teachings of these eminent personalities through speeches and posters. The annual technical festival, Cognition is conducted on Sept 15, every year, to commemorate the birth anniversary of Shree Mokshagundam Visvesvaraya. As SIESGST offers course in PPT, printer's day is celebrated as a tribute to Johann Gutenberg. Special efforts are taken to promote technical culture under various professional communities and celebrate the foundation days of IEEE and IETE. International Women's day is celebrated to show respect for women's efforts and contributions. Two minutes of silence is observed on 26th July to pay homage to the martyrs of the Kargil war. Language is the root map of our culture, and we make efforts to preserve it by celebrating Marathi Bhasha Divas. We constantly try to instil a sense of gratitude towards the sacrifices of great leaders of our country.

File Description	Documents
Annual report of the celebrations and commemorative events for the last (During the year)	<a href="#">View File</a>
Geo tagged photographs of some of the events	<a href="#">View File</a>
Any other relevant information	No File Uploaded

## 7.2 - Best Practices

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

### Criterion 7 - Institutional Values and Best Practices

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

1. Title: The transparent, safe and secure digital platform during pandemic

Objective: The pandemic situation opened the various challenges as well as many innovative areas for the development in all the fields. In the education field, the

biggest challenge was the transformation from conventional teaching to the online teaching, examinations, evaluations without losing the zest of teaching - learning process in a very short period of time. Providing the digital learning platform which also helps in fair continuous evaluation without break in the running semesters was the main objective during the pandemic.

**The Context:** In this 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. This gap in the offline and online education has led to implementations of new student centric approaches in teaching and learning to improve their understanding. 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 online engagement of the students for different activities.

**The Practice:** Considering the pandemic situation and sudden shut of the offline / physical activities, we at SIESGST have created a road map to address this issue by deploying the necessary things such as the G-Suite, Microsoft platform with all necessary applications like Google Meet, Classrooms, Sites, Google forms, Microsoft teams, Outlook, forms, share point, one drive, one note, whiteboard, office 2019 student edition etc.

The SIESGST's own domain [siesgst.ac.in](http://siesgst.ac.in) and [sies.edu.in](http://sies.edu.in) provides staff and students with unlimited storage space so that faculty can record their lectures and provide students with the access for easy rewind and recollect the taught content at their pace, anytime anywhere. With this storage, faculties can share the reference notes, study material which includes personal notes, PPTs, pdfs etc.

The main hurdle during these online sessions was the continuous assessment and transparent evaluation without losing the faith in educational system. Due to our own

secured domain, we could give every student with unique email ID, which helped us to restrict students for submitting more than one response and also giving examinations with fake IDs or multiple IDs, also, we could conduct the examination in very transparent way.

During this period, different activities like seminars and lectures by industry professionals, hands on workshops, competitions, to name a few, have been conducted smoothly to keep students motivated towards the learning and innovations.

In this pandemic, the MOOCs (Massive Open online course) platforms were explored by the students as well as faculties such as Coursera, GitHub, SWAYAM, online internships etc, through college domain-based IDs.

The students were located at different places where we faced the connectivity issues, poor network from students' side.

2. Title: Value-added courses during winter/summer vacation.

Objectives-

To acquaint students with the latest technologies

To provide hands-on training on the latest tools and technologies

To develop problem-solving skills through project development

The context-

The value-added courses with the internship-based project, across various disciplines on emerging technologies are offered in the winter vacation (December 2021) for TE and BE students. The registration to courses is kept open to all the students across all the branches.

The courses are designed by the departments after brainstorming on the industry-academia gap, interdisciplinary skills, and making students industry-ready. The experts on the identified courses are identified both from department and industry and the course structure is designed. The course content is designed by the course coordinator and is verified and validated by the industry expert.

## Practice-

The courses are floated to students at least one week prior to the start date during the summer/winter vacation. The courses duration is of 40 hours followed by 15 days of internship projects. The course is focused more on the practice of skills, technological tools, and hands-on sessions. These courses are free of cost for the students.

The list of courses planned and conducted during the summer break of 2020-21 are as given below-

Table1- List of Value-added courses conducted in Summer 2021.

Sr.no.

SDP

Organized by

Date

1

3D Modelling and 3D Printing

Mechanical department

June 21 to July 03, 2021

2

Simulation using ANSYS and CFD

Mechanical department

June 21 to July 03, 2021

3

Network Management and Security

IT department

June 21 to June 26, 2021



4

Mobile &amp; Web App Development

CE department

June 28 to

July 03, 2021

5

Data Science

CE department

June 28 to

July 03, 2021

6

Advanced Antenna Design

EXTC department

June 28 to July 04, 2021

7

Introduction to Embedded System and IoT

EXTC department

June 28 to July 03, 2021

File Description	Documents
Best practices in the Institutional web site	<a href="#">View File</a>
Any other relevant information	<a href="#">View File</a>

### 7.3 - Institutional Distinctiveness

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

### The Vision of SIES Graduate School of Technology

"To be a centre of excellence in Education and Technology committed towards Socio-Economic advancement of the country".

In line with its vision of working towards the socio-economic development of the country, the SIES has taken utmost care to give back to the community.

'Project Beacon' is a small step to give meaning and purpose to someone's life. For the inclusive social upliftment and the Institute adopted 'Project Beacon' as the institute's social responsibility.

### Mask making project of beacon

Institute donated 2.5 lakh masks to the frontline COVID warriors, through Navi Mumbai Municipal Corporation and was handed over to the Commissioner Abhijit Bangar. The Institute made these masks through its Graduate School of Engineering's Beacon Project, which employs economically challenged women in the Nerul-Vashi area.

The Institute has its own "The National Service Scheme" (NSS) unit plans activities like tree plantation, cleanliness drive, E-waste awareness, wet waste and disaster management to expose the students to the pressing issues in our society. A session on Universal Human Value (UHV) is arranged by experts. Not only that, every first-year faculty member has completed a short-term course in UHV, they also interact regularly with the students.

File Description	Documents
Appropriate web in the Institutional website	No File Uploaded
Any other relevant information	<a href="#">View File</a>

7.3.2 - Plan of action for the next academic year

### 1. 6R: Plastic Ban Activity

The Government of India has announced a total ban of all types of single-use plastic from manufacturing, stocking, usage etc. from 1st July 2022. With only 6 months deadline for this much-awaited ban, we will be completely single-use plastic free campus as much as possible

The SIES management emphasized that plastic waste is generated in huge amount that is creating environmental pollution, health issues and many challenges in resource management. SIES has always supported the developing workable models for society and policy makers in the field of education, environment, and societal development. Moving towards sustainability, we aim to build back rejuvenating relationship between people and the planet through the complete plastic ban.

As a responsible, social & corporate citizen, SIES endeavours to follow this mission seriously by implementing 'Mission 6R' (Refuse, Reduce, Reuse, Repurpose, Recycle, Rejuvenate) and discard single-use plastic from the campus.

## 2. Student Development Programs

The value-added courses with the internship - based project, across various disciplines on emerging technologies are being offered. In continuation, we plan to directly involve industry experts in SDPs. Also, the industry defined projects will be preferred in the project-based learning to give glimpse of current corporate scenario.