



# YEARLY STATUS REPORT - 2021-2022

## 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.

61082401

• Mobile No:

9819150392

• Registered e-mail

principalgst@sies.edu.in

• Alternate e-mail

registrargst@sies.edu.in

• Address

Plot No.1/C/D/E  
Srichandrasedkarendra Saraswathy  
Vidyapuram

• City/Town

Nerul, 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 **Ms.Leena Ladge**
- Phone No. **61082422**
- Alternate phone No. **61082401**
- Mobile **9867801816**
- IQAC e-mail address **iqacgst@sies.edu.in**
- Alternate e-mail address **leenal@sies.edu.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>15/08/2023</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**      **2**

- 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)**

1. Initiatives for Quality Research 2. Quality Measures taken to improve Students' performance 3. Dynamic and vibrant Students' chapters under Professional Bodies 4. Started with three UG courses in the emerging areas (Artificial Intelligence & Machine Learning, Artificial Intelligence & Data Science, Computer Science & Engineering (IoT, Block Chain) and two PG courses -ME (Information Security) & ME(AI&DS). 5. Enabling students to take up courses from multidisciplinary under Value Added Courses.

**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
Each department to take up industry project/ research project with number equivalent to half of total faculty strength.	This was undertaken by the departments of Electronics & Telecommunication, Computer Engg., Information Technology, Printing & Packaging Technology and Mechanical Engg.
To conduct at least two technical activities at National/ International level by each department.	This objective was fulfilled by the departments of Electronics & Telecommunication, Computer Engg., Information Technology, and Mechanical Engg.
Revenue generation through Consultancy/ MoU's/ Alumni by every department as per NAAC/NBA requirement	This goal was not achieved directly, but initiatives are taken up by the departments to fulfil in next Academic Year.
Each department to include at least two value added courses or certificate programs in the emerging areas to enrich the curriculum.	The departments of Electronics & Telecommunication, Computer Engg., Information Technology, and Mechanical Engg. have conducted min two value added courses and PPT has conducted one course.

**13. Whether the AQAR was placed before statutory body?** Yes

- Name of the statutory body

Name	Date of meeting(s)
College Development Committee	16/11/2022

**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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• Pin Code	400706
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• if yes, whether it is uploaded in the Institutional website Web link:	<a href="https://siesgst.edu.in/academics/acad_cal.php">https://siesgst.edu.in/academics/acad_cal.php</a>				
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<b>13.Whether the AQAR was placed before statutory body?</b>	<b>Yes</b>				
<ul style="list-style-type: none"> <li>Name of the statutory body</li> </ul>					
<table border="1"> <thead> <tr> <th>Name</th> <th>Date of meeting(s)</th> </tr> </thead> <tbody> <tr> <td>College Development Committee</td> <td>16/11/2022</td> </tr> </tbody> </table>		Name	Date of meeting(s)	College Development Committee	16/11/2022
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Year	Date of Submission				
2021	03/02/2022				
<b>15.Multidisciplinary / interdisciplinary</b>					
NEP-2020 promotes moving away from the conventional content-based and rote learning practice towards holistic learning..					



South Indian Education Society's Graduate School Of Technology(SIESGST) is affiliated to University of Mumbai and follows guidelines issued by the University of Mumbai.

The SIES consists of Engineering,Arts Science and commerce college,Management institute which runs various courses at undergraduate and post graduate levels affiliated to university of Mumbai,this provides the base for multidisciplinary / interdisciplinary courses in the various domains of STEM . These institutions could be part of teaching university in future as the NEP 2020 implementation progresses.

Institute provides electives to the Final year students in both the semester referred as Institute level optional courses in various interdisciplinary domains like environment management , Cyber security and Laws, Product Lifecycle management etc to name the few.

The department level electives also provide the interdisciplinary courses at third and final year of engineering ex. Final Year elective for EXTC branch is Digital forensics,Natural Language processing.Students are also offered with various Minor degree courses in the interdisciplinary domians.Insitude also has active National Service Scheme unit which regulary undertakes socio-cultural activities.

During summer and winter vacation Institute offers various value added courses from the different domains of engineering which support multidisciplinary/interdisciplinary education.

Students regularly participate in various competitions at state and national level,Final year projects which includes Hackathons which provides platform for solving real world problems which are multidisciplinary / interdisciplinary domains of engineering.

The institution has formed a research mentoring committee with the experts from various disciplines of engineering and relevant sciences to guide the research activities of the Institution.

Institute proactively working towards implementation of the suggestions given in the NEP-2020 and Mumbai university.

#### **16.Academic bank of credits (ABC):**

SIES Graduate School Of Technology , affiliated to Mumbai University is in the process of developing a system for executing

Academic Bank of Credits (ABC).As per the guidelines issued by the university, the institute will implement the ABC. Students across different disciplines of engineering enroll for various MOOC courses on the national platform like SWAYAM, NPTEL.It will further help students to earn and deposit credits under ABC. The institute agrees in principle with the ABC. As well as University has initiated Honours courses from the enshuing academic year wherein the students can enroll for any one course in multidisciplinary field. The Institute also encourages studnets to take up honours/minor courses earning extra credits to get honours/minor degree.

Our faculty members are encouraged to design the revised curriculum at appropriate levels of UG and PG courses of University of Mumbai.Faculty memebers are also involved in developing study material and Assesment components which are available in public domain.

In next few years the complete implementation practice of academic bank of credits will be operational in our Institute.

#### **17.Skill development:**

The institution is conducting value added education programs beyond the curriculum to facilitate student skill development. With the Industrial revolution 4.0 next door, employers are on the lookout for talent that possesses domain expertise along with digital literacy and industry-relevant skills. NEP 2020 is an important step that will change the face of the Indian educational system. The importance of soft skills such as communication, teamwork, problem solving, decision making, analytical thinking, resiliency is well emphasized with the graduate attributes during the four years of under graduation.

Students are motivated to participate in extracurricular activities and organizing events, on and off the campus, to explore a number of qualities in their personality like Managerial skills/Leadership skills, planning and enterprising skills, and interpersonal skills.

Value-Based Education: • Courses such as Universal Human Values (I & II), professional ethics, environmental sciences are conducted.Also, events commemorating the national and international days of importance, birth and death anniversaries of eminent people are organized to bring inspiration, motivation and camaraderie among students and faculty for a value-based

career and life.

Institution's Efforts: 'Train the trainer program' a few faculty members will be trained to internally train and support the students.

#### **18.Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course)**

Encouraging the education in Indian languages will benefit the student, to improve confidence in students from rural and tribal backgrounds.

SIES is continuously involved in imparting value system and Indian culture amongst students through various platforms. SIES campus comprises of various institutes like Arts, Science and Commerce college, School of Management studies, which helps students to acquire culture from different disciplines.

Two faculty members of department of Computer Engineering have successfully translated the NPTEL courses in the regional Marathi language.

The competencies like cultural awareness and expression among the students are developed by encouraging their participation in NSS skits on various social and cultural issues. Literary club has active student members providing the platform of expressing themselves through various regional languages.. The institute organizes various annual and flagship events that gives impetus to the students to take part in a variety of cultural programme.

#### **19.Focus on Outcome based education (OBE):Focus on Outcome based education (OBE):**

Skills connected to Critical & Creative thinking, Problem Solving, Collaboration and Communication are core to successful living in the 21st Century. Competency is a set of skills, abilities, knowledge that helps an individual perform a given task in real life. Every learning should go into the imbibing of skills that will help the individual perform tasks or take actions to lead a productive and joyful life.

Institute has formally adopted Outcome Based Education (OBE), which focuses on well defined syllabus with various levels of learning outcome, pedagogical strategies adopted, well defined learning and assessment processes. In line with institute vision, mission all programs have well defined Program Outcomes (PO), Program Educational outcomes (PEO) and Course Outcomes (CO) and it

is well disseminated to all the stakeholders through institute website and prominent places in the departments. Through our well defines rubrics for the various assessment strategies and activity based learning the students are assessed.

Most of the faculty members have completed the AICTE FDP on examination reforms which discusses in detail about OBE and Assessment. SIES graduate school of Technology has adopted and matured in the implementation of OBE. Further SIES GST will also adhare to the guidelines provides by the affiliating university.Four of our undergraduate programmes are NBA accredited.

**20.Distance education/online education:**

SIES graduate school of Technology has successfully carried all the activities related to academic and curriculum delivery like various teaching strategies, assessment and examinations through online education mode during the two years of pandemic.The faculty members used online platforms and created the learning resources by recording videos using softwares like Screenomatic, Camtasia, OBS, Loom etc. The Practical sessions were conducted using Virtual labs, simulation tools. G Suite was used for various teaching-learning activities along with Microsoft Teams.All SIES Institutes are using Microsoft 365 accounts for academic and administrative purposes.So the institute is well prepared to implement distance education/online education.

Faculties are encouraged to enroll and attended online webinars, workshops, STTP, FDP etc. The Institute is also registered as a SWAYAM-NPTEL Local Chapter. During the last couple of years, students and faculty of the institute have enrolled and completed various online courses offered by various MOOC platforms.

As a part of Institutional strategic plan,the faculty members are in the process of development of various MOOC courses in all four quadrants. This will help students to learn multidisciplinary certification courses through distance education/online mode.

**Extended Profile**

**1.Programme**

1.1

351

Number of courses offered by the institution across all programs during the year		
File Description		Documents
Data Template	<a href="#">View File</a>	
<b>2.Student</b>		
2.1 Number of students during the year		1852
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		0
File Description		Documents
Data Template	<a href="#">View File</a>	
2.3 Number of outgoing/ final year students during the year		471
File Description		Documents
Data Template	<a href="#">View File</a>	
<b>3.Academic</b>		
3.1 Number of full time teachers during the year		83
File Description		Documents
Data Template	<a href="#">View File</a>	
3.2 Number of Sanctioned posts during the year		99

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

<b>4.Institution</b>	
4.1 Total number of Classrooms and Seminar halls	31
4.2 Total expenditure excluding salary during the year (INR in lakhs)	662.74
4.3 Total number of computers on campus for academic purposes	610

## 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 Graduate school of technology ,affiliated to University of Mumbai (UoM) takes adequate and timely measures to ensure effective curriculum delivery through various committees like Academic Council Committee, Library Committee, Timetable Committee, Attendance Monitoring Committee etc.

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 timetables are prepared for all programs at the beginning of the semester.

Faculty member and Course coordinator, frames course outcomes, prepares session plan with various teaching methodologies for

efficient content delivery. In SH2021 the lectures/lab sessions were conducted in hybrid mode and in offline using traditional method, PPTs, OneNote, Whiteboard, simulation software etc. in the FH2022. Internal Assessment and End Sem Exams were also conducted online in the SH2021 and in offline mode in the FH2022 as per the guidelines of university. In FH2022, question bank for each subject was given by the university and was available on the website of the institute for End Sem Examination. Syllabus Completion review was taken twice in the 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://siesgst.edu.in/docs/AQAR-2021-22/Criteria%201/1.1/1.1.1/1.1.1_proofs/">https://siesgst.edu.in/docs/AQAR-2021-22/Criteria%201/1.1/1.1.1/1.1.1_proofs/</a>

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

SIES Graduate School of Technology 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 timetable of the Internal Test and result declaration date so that faculty completes 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 SH2021 all the exams were conducted in online mode and in offline mode in the FH2022 as per university guidelines.

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://siesgst.edu.in/docs/AQAR-2021-22/Criteria%201/1.1/1.1.2/1.1.2_proofs/">https://siesgst.edu.in/docs/AQAR-2021-22/Criteria%201/1.1/1.1.2/1.1.2_proofs/</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**

A. All 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**

9

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)**

8

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**

617

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

617

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

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.

Branchwise number of subjects addressing crosscutting issue is mentioned in table below.

Branch No of courses addressing crosscutting issues EXTC 7 CE 10  
IT 8 ECS 2 Mech 1 PPT 2 All 2

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

52

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

1852

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>

<b>1.4 - Feedback System</b>	
<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>
<b>File Description</b>	<b>Documents</b>
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>
<b>File Description</b>	<b>Documents</b>
Upload any additional information	<a href="#">View File</a>
URL for feedback report	<a href="https://siesgst.edu.in/images/AOAR_2021-22/1.4.2_Action_taken_report_on_Feedback_21-22.pdf">https://siesgst.edu.in/images/AOAR_2021-22/1.4.2 Action taken report on Feedback 21-22.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>576</b>	
<b>File Description</b>	<b>Documents</b>
Any additional information	<a href="#">View File</a>
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

The slow learners and advanced learners are identified based on various parameters like prerequisite tests, class interaction, test performances, mini and major projects, etc. We at the institute, give emphasize improving the performance of slow learners by providing remedial programs and extra classes. The transition from online to the offline exam was handled by conducting remedial lectures for important topics and conducting practice tests and providing question banks to practice for the offline exam.

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 counselling 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://siesgst.edu.in/images/AQAR_2021-22/2.2.1.pdf">https://siesgst.edu.in/images/AQAR_2021-22/2.2.1.pdf</a>
Upload any additional information	<a href="#">View File</a>

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

Number of Students	Number of Teachers
1852	83

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 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 as shown in table:

#### Table1- Student-centric methods

Experiential Learning Industrial Visit Mini projects Student Seminar Major Project Participative learning Flipped classroom Think-Pair-Share Mindmap Peer Instruction Problem-based learning Open problem-solving Case-study

#### 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, an industrial visit was organized by the Mechanical department for Third-year students as a part of the HVACR subject at Warana Dairy, Nerul, Navi Mumbai.

#### 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.

**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 course Data Structures (ECS, Sem III) the students were given with an open problem and guided by the teacher to solve it systematically.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Link for additional information	<a href="https://siesgst.edu.in/docs/AQAR-2021-22/Criteria%202/2.3.1-Student%20centric-method.pdf">https://siesgst.edu.in/docs/AQAR-2021-22/Criteria%202/2.3.1-Student%20centric-method.pdf</a>

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

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

1. The [dsa.gnomio.com](https://dsa.gnomio.com), Canvas is used to create MOOC course for three modules- Stack, Queue and linked list in data structures course and in Engineering Mathematics respectively.
2. MS Teams is used to conduct lectures, upload instructional materials, create classrooms for uploading lab work, and carry out assessments.
3. MS forms are used to conduct an online assessment in the form of quizzes, class tests, assignments etc.
4. The video lectures are uploaded by faculty on online platform like YouTube and Institute website for students.
5. Virtual labs are used to conduct experiments 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. Online quizzes and polls are regularly conducted to record the feedback of the students by using platforms like Mentimeter, Kahoot etc.
9. Whiteboard-To teach mathematical subjects in online mode, teachers have used various online tools like 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/images/AOAR_2021-22/2.3.2-ICT_tools.pdf">https://siesgst.edu.in/images/AOAR_2021-22/2.3.2-ICT_tools.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

82

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

83



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

20

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

700

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

Internal assessment comprises internal tests which are the separate head of passing as per the syllabus scheme prescribed by the University of Mumbai. The internal assessments are planned per the University academic calendar and informed to students and faculty at the start of the semester. Two internal tests are conducted for 20 marks and an average of two tests is considered. The first test happens within 45 days of the college reopening, ensuring 40% syllabus is 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 the internal tests. The mode of conduction of the exam was online for the odd semester and offline for the even semester. The question paper format for both modes was as per the university guidelines received and the same was communicated to students well before the exam. The internal assessments are routinely monitored by Internal Quality Committees to ensure coverage of the learning outcomes and the questions at various Bloom's taxonomy levels are covered.

File Description	Documents
Any additional information	<a href="#">View File</a>
Link for additional information	<a href="https://siesgst.edu.in/images/AQAR_2021-22/2.5.1.pdf">https://siesgst.edu.in/images/AQAR_2021-22/2.5.1.pdf</a>

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

In our institute, 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 as follows:

**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 if raised by the student.

**Assignments-**

Faculty evaluates assignments based on the rubric which is also

shared with the students. The rubric consists of criteria like; 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. Teams, Google classroom, Juno 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 as per the rubrics are conducted in front of the panel consisting of a group of faculties and monitored by an observer from other department.

File Description	Documents
Any additional information	<a href="#">View File</a>
Link for additional information	<a href="https://siesgst.edu.in/images/AQAR_2021-22/2.5.2.pdf">https://siesgst.edu.in/images/AQAR_2021-22/2.5.2.pdf</a>

## 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 deliberation 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.

Every faculty member in the Institute perceives Outcome-based education and diligently tries to ensure that outcome attainments are met.

File Description	Documents
Upload any additional information	<a href="#">View File</a>
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 refers to the revised syllabus shared by the University of Mumbai to form COs for their respective subjects every semester that maps across all cognitive levels of Bloom's taxonomy.
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's 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.

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-2021-22/Criteria%20/14010_26_55_COPomapping.pdf">https://siesgst.edu.in/docs/AQAR-2021-22/Criteria%20/14010_26_55_COPomapping.pdf</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

463

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://siesgst.edu.in/docs/AQAR-2021-22/Criteria%20/Result%20Annual%20Report.pdf">https://siesgst.edu.in/docs/AQAR-2021-22/Criteria%20/Result%20Annual%20Report.pdf</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/images/AQAR\\_2021-22/2.7.1\\_SSS\\_coloured.pdf](https://siesgst.edu.in/images/AQAR_2021-22/2.7.1_SSS_coloured.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)	<a href="#">View File</a>
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**

96

File Description	Documents
Report of the event	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
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

40

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

42

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

**SIES Graduate School of Technology is an institution that believes in the holistic growth of students and enables them to realise their social responsibilities, learn, and work towards society's**

wellbeing.

The vibrant National Service Scheme (NSS) Unit of SIES GST, which persistently involves students in resolving socially significant issues, is an essential component of the school. The NSS Unit attempted to collect donations for the KushtarogNivaran Samiti during the flood emergency. The NSS oversees actively working towards a cleaner environment through a plastic collection campaign, education of the underprivileged, manure creation for trees, organising a clothing and food donation drive, and providing an example for others. The NSS Unit also has important responsibilities in organising yearly initiatives, including tree plantations, Swachh Bharat initiatives, and blood donation camps.

The Student Council, along with NSS, celebrates all the days of national importance like Independence Day, Republic Day, Lal Bahadur Shashtri Day, and Gandhi Jayanti every year by performing skits on social issues and singing songs to keep nationalism alive in every student.

Model United Nations, Tedx@SIESGST, Bizence: A Business Solution, and Promethean: An Engineering Solution to Environmental Problems are just a few options for students to explore at SIES GST.

File Description	Documents
Paste link for additional information	<a href="https://siesgst.edu.in/images/AQAR_2021-22/Extenstion_Activities_Instagram_Links.pdf">https://siesgst.edu.in/images/AQAR_2021-22/Extenstion_Activities_Instagram_Links.pdf</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**

8



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**

**35**

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**

**2311**

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**

169

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**

13

File Description	Documents
e-Copies of the MoUs with institution./ industry/corporate houses	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
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 SIES Graduate School of Technology, 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 include 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 Storerooms.

In SIES Graduate School of Technology 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://siesgst.edu.in/docs/AQAR-2021-22/Criteria%204/4.1/4.1_Updated/4.1.1_Ad%20Info.pdf">https://siesgst.edu.in/docs/AQAR-2021-22/Criteria%204/4.1/4.1_Updated/4.1.1_Ad%20Info.pdf</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 Graduate School of Technology 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://siesgst.edu.in/docs/AOAR-2021-22/Criteria%204.1/4.1 Updated/4.1.2%20Ad%20Info.pdf">https://siesgst.edu.in/docs/AOAR-2021-22/Criteria%204.1/4.1 Updated/4.1.2%20Ad%20Info.pdf</a>

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

31

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

31

File Description	Documents
Upload any additional information	<a href="#">View File</a>
Paste link for additional information	<a href="https://siesgst.edu.in/docs/AOAR-2021-22/Criteria%204.1/4.1 Updated/4.1.3.1 Additional%20Info.xlsx">https://siesgst.edu.in/docs/AOAR-2021-22/Criteria%204.1/4.1 Updated/4.1.3.1 Additional%20Info.xlsx</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)

52.70

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 a 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-resourcesthroughout 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://siesgst.edu.in/docs/AQAR-2021-22/Criteria%204/4.2/4.2.1_Ad%20Info.pdf">https://siesgst.edu.in/docs/AQAR-2021-22/Criteria%204/4.2/4.2.1_Ad%20Info.pdf</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>24.09792</b>	
File Description	Documents
Any additional information	<a href="#">View File</a>
Audited statements of accounts	<a href="#">View File</a>
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>39</b>	

File Description	Documents
Any additional information	<a href="#">View File</a>
Details of library usage by teachers and students	<a href="#">View File</a>

### 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.
- **Licensed softwares:** Institute has various softwares needed for academic purposes which includes Oracle, Flash Pro, Photoshop etc.
- **CCTV Surveillance:** GST has a very efficient electronic surveillance system which consists of 123 cameras installed throughout its campus .
- **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/AOAR-2021-22/Criteria%204/4.3/4.3.1 AdInfo.pdf">https://siesgst.edu.in/docs/AOAR-2021-22/Criteria%204/4.3/4.3.1 AdInfo.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)

121.48



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 Graduate School of Technology follows well defined processes for maintaining and utilizing physical, academic and support facilities. The requisitions of above are collected and approved by College development committee. For ex. Book requisition are collected through Library committee and approved by the Principal. The annual maintenance of physical, academic and support facilities are carried out at institute level. The infrastructure, equipment and other facilities such as 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 repair and maintenance 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.

The system administrator maintains the network related equipment's like switches, routers, access-points, and monitors 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.

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	<a href="https://siesgst.edu.in/docs/AQAR-2021-22/Criteria%204/4.4/4.4.2_Ad%20info.pdf">https://siesgst.edu.in/docs/AQAR-2021-22/Criteria%204/4.4/4.4.2_Ad%20info.pdf</a>

## 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

537

File Description	Documents
Upload self attested letter with the list of students sanctioned scholarship	<a href="#">View File</a>
Upload any additional information	<a href="#">View File</a>
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

48

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/AOAR-2021-22/Criteria%205/5.1.3/5.1.3%20%2021-22%20Proof%20on%20Netmodified.pdf">https://siesgst.edu.in/docs/AOAR-2021-22/Criteria%205/5.1.3/5.1.3%20%2021-22%20Proof%20on%20Netmodified.pdf</a>
Any additional information	<a href="#">View File</a>
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**

**703**

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

**703**

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

<p><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></p>	<p><b>A. All of the above</b></p>
--	-----------------------------------

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	<b>No File Uploaded</b>
Details of student grievances including sexual harassment and ragging cases	<b>No File Uploaded</b>

## 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

300

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

20

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**

51

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.**

10

File Description	Documents
e-copies of award letters and certificates	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>
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 )

The student members play a vital role in various Institute level committees like the WDC, anti-ragging, IQAC, CDC and ISR. Involvement of the students in various administrative bodies has improved their managerial and leadership qualities and made them more responsible. Their active contribution helps to provide students interaction on various curricular and co curricular matters with the other stakeholders.

Apart from professional body chapters, SIES Graduate School of Technology has an active Student's Council (SC) whose members are elected yearly. The election process involves inviting applications from students for the various posts. Selection process: A selection committee decided by Principal consisting of the Student Council I/C and Senior Faculty members, conduct interviews for the selection of the Technical, Cultural, Sports Secretaries from the final year and the Ladies and NSS representatives from the third year. The core council then elects the General Secretary and the President. The student council forms teams for Marketing, PR, Logistics, Sponsorship generation, Social Media Management, Multimedia Editing and Photography based on the students' interests. The 50-member student council has representation from all the departments; together they act as a link between the students and management.

Alumni representative was introduced to Improve Alumni interaction. UDGAM an ISR team was formed in 2018 to sensitize social issues among students. Clubs like music, dramatics, literary, robotics also work along with SC.

File Description	Documents
Paste link for additional information	<a href="https://siesgst.edu.in/images/AQAR_2021-22/Events_Sports_and_Cultural_2021-2022.pdf">https://siesgst.edu.in/images/AQAR_2021-22/Events_Sports_and_Cultural_2021-2022.pdf</a>
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**

56

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

Alumni Association was formed in 2012 at SIES Graduate School of technology(SIESGST). The Association is dedicated to bringing together the alumni on a common platform to build another channel of personal and professional support to members of the the community. 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. 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. They have also invited as a judge for various technical competitions. 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 hands on 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 .They also help us in providing industry based input to final year projects.

File Description	Documents
Paste link for additional information	<a href="https://siesgst.edu.in/docs/AQAR-2021-22/Criteria%205/5.4/2.Additional%20data_/2.Alumni%20activities_Additional%20data.pdf">https://siesgst.edu.in/docs/AQAR-2021-22/Criteria%205/5.4/2.Additional%20data_/2.Alumni%20activities_Additional%20data.pdf</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 has been set by considering the needs of the society. All the stakeholders are involved in setting up the Vision and Mission. Individual departments prepare the Strategic plan and organize the events as per the plan.

**SIES: Governance and Management**

**Vision:**

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

**Mission:**

- 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/images/AQAR_2021-22/6.1.1_Additional_signed.pdf">https://siesgst.edu.in/images/AQAR_2021-22/6.1.1_Additional_signed.pdf</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.

SIES Graduate School of Technology promotes and practices decentralization in all academic and administrative activities, it has various academic and administrative committees to monitor, plan and execute smooth functioning of the Institute. The case study of Internal Exam committee is mentioned here.

The college being affiliated to University of Mumbai (UoM), follows the examination ordinances issued by UoM. Internal assessments (IAs) comprises of internal tests which is separate head of passing as per the syllabus scheme. The IAs are planned as per the University guidelines and informed to students and faculty in the start of the semester. The IAs are routinely monitored by Internal Quality Committee to ensure that they meet the learning outcomes in the syllabus and the questions at various Blooms' levels are covered. Two IAs are conducted for 20 marks and an average of two tests is considered in each subject along with an end semester examination of 80 marks. The first test happens within 45 days of Semester with at least 40% syllabus and the second test is scheduled with next 40 % syllabus. The solution and marking scheme of test is prepared and shared with students after exam to maintain transparency and uniformity in the IAs.

File Description	Documents
Paste link for additional information	<a href="https://siesgst.edu.in/images/AQAR_2021-22/6.1.2-additional.pdf">https://siesgst.edu.in/images/AQAR_2021-22/6.1.2-additional.pdf</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

A 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 are 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 goals.

#### Professional Student Counseling Example

A student from CE department went under depression and was not willing to appear for university exams. This was identified as he

was consistently absent and found unresponsive in the classes by the faculty members. His Class In-charge Counseled him and intimated the same to his mentor. Further his mentor discussed the problems he was facing, she found that he had some medical issues and called his parents. During the telephonic discussion with his parents, she understood that he was facing anxiety issues. The parents met the HoD and SIES appointed counselor. The follow-up records are maintained in office.

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/images/AQAR_2021-22/6.2.1_additional_final.pdf">https://siesgst.edu.in/images/AQAR_2021-22/6.2.1_additional_final.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 have College development committee which takes important strategic decisions related to the development activities such as infrastructure, lab equipment purchase, faculty recruitment, new course addition etc. Each HOD submit their requirement to the Head of the institute, and it is discussed in the CDC meeting held twice in a year having all stake holder's representation like industry experts, faculty, alumni, students non-teaching staff and management representatives. In each CDC meeting the action taken report is presented to check the deployment of decisions taken in the previous meeting. The minutes of meeting and action taken report of college development committee is attached herewith.

File Description	Documents
Paste link for additional information	<a href="https://siesgst.edu.in/images/AQAR_2021-22/6.2.2_Additional.pdf">https://siesgst.edu.in/images/AQAR_2021-22/6.2.2_Additional.pdf</a>
Link to Organogram of the Institution webpage	<a href="https://siesgst.edu.in/images/AQAR_2021-22/Organogram.pdf">https://siesgst.edu.in/images/AQAR_2021-22/Organogram.pdf</a>
Upload any additional information	<a href="#">View File</a>

<b>6.2.3 - Implementation of e-governance in areas of operation Administration Finance and Accounts Student Admission and Support Examination</b>	<b>A. All of the above</b>
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>
<b>6.3 - Faculty Empowerment Strategies</b>	
6.3.1 - The institution has effective welfare measures for teaching and non- teaching staff	
<b>The Institute has a welfare mechanism in place, for teaching and non-teaching staff.</b>	
<b>Teaching Staff:</b>	
<ul style="list-style-type: none"> <li>• As per the norms of AICTE, Pay commission recommendations are implemented.</li> <li>• Extending EPF Scheme is implemented to all eligible members (as per PF Rules)</li> <li>• Group insurance facility .</li> <li>• Maternity Leave of 6 months with pay and extension of additional leave if required.</li> <li>• College organizes free and periodic health checkups.</li> <li>• Felicitation for acquiring higher degree.</li> <li>• Bank and ATM facility in campus.</li> <li>• Free canteen coupons.</li> <li>• Quota in admission for employees' children in any of the</li> </ul>	

**SIES Institutions .**

- SIES Jeevan Raksha Vaccination drive was conducted for teaching staff.
- 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://siesgst.edu.in/images/AQAR_2021-22/6.3.1_Additional%20Info_Final.pdf">https://siesgst.edu.in/images/AQAR_2021-22/6.3.1_Additional%20Info_Final.pdf</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**

8

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**

13

File Description	Documents
Reports of the Human Resource Development Centres (UGCASC or other relevant centres).	<a href="#">View File</a>
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**

64

File Description	Documents
IQAC report summary	<a href="#">View File</a>
Reports of the Human Resource Development Centres (UGCASC or other relevant centers)	<a href="#">View File</a>
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

#### Performance Appraisal System of Teaching Staff

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

1. Teaching, learning and evaluation related activities like Lectures, tutorials, practical hours, Lectures or other teaching duties, Preparation and imparting of knowledge, Use of participatory and innovative methodologies used, Examination Duties
2. Professional development, co-curricular and extension activities like Student related co-curricular extension and field based activities, Contribution to corporate life and management of the department and institution, Professional development activities.
3. Research and Academic Contribution like Research papers published in refereed journal, journals and conference proceedings, Research publication as Book and Book Chapter, Ongoing and Completed Research projects and consultancies, Training courses and conferences/seminar/workshop

#### 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 Head of the Department for Technical staff and by the

registrar for the administrative staff and then by the Principal. The self-appraisal reports with recommendation is then sent to HR for further considerations for appreciation or corrective action.

File Description	Documents
Paste link for additional information	<a href="https://siesgst.edu.in/images/AQAR_2021-22/6.3.5_Additional%20Documents.pdf">https://siesgst.edu.in/images/AQAR_2021-22/6.3.5_Additional%20Documents.pdf</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

Internal and external audits are carried out by the Institute. As per the requirements of the Income Tax Act, the external auditor conducts a statutory audit once a year.

For the past five years, the Institute's statutory auditors have been M/S. V. Sankar Aiyar Co, Chartered Accountants. They are professional auditors who have been chosen by the Society to carry out audits. The Society conducts an audit of its financial statements, with its balance sheet and income and expense account. For the preceding five years, the statutory auditors' reports are available.

The Society keeps accurate books of accounts, and the financial statements provide a genuine and fair view in line with accounting regulations on the balance sheet and income expense account. The management is informed of the internal audit through the management information system on a quarterly basis (MIS). The external audit certifies the same.

File Description	Documents
Paste link for additional information	<a href="https://siesgst.edu.in/images/AQAR_2021-22/6.4.1-Additional.pdf">https://siesgst.edu.in/images/AQAR_2021-22/6.4.1-Additional.pdf</a>
Upload any additional information	<a href="#">View File</a>

**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)****644700**

File Description	Documents
Annual statements of accounts	No File Uploaded
Any additional information	<a href="#">View File</a>
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	<a href="https://siesgst.edu.in/images/AQAR_2021-22/6.4.3_Additional2.pdf">https://siesgst.edu.in/images/AQAR_2021-22/6.4.3_Additional2.pdf</a>
Upload any additional information	<a href="#">View File</a>

## 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

SIES Graduate School of Technology had a very active and effective ISO 9001:2008 Quality Management System (2005-17) and it is now being continued under the IQAC.

The two best practices presently institutionalized under IQAC are:

### 1. Initiatives for Quality Research

In order to motivate research in Education Technology, Department of CE conducted Symposium on Innovative teaching-learning techniques in Engineering Education (ITLEE-2021). IQAC has

organised workshops and Seminars on Procedural Aspects of IPR, awareness programme in association with Intellectual Property Office, Mumbai, Research Paper Writing & Publishing, Do's and Don'ts of Research and Technical Publications" etc. This has assisted to increase the publications of students and faculty members in reputed conferences & journals, filing of patents/copyrights.

## 2. Quality Measures taken to improve Students' performance:

In order to enable students to cope with offline teaching learning after almost two years of break, Institute took some measures like remedial classes and prelims Test Examination for needy students and conducting extra classes on Saturdays. Question Banks were provided for practicing and revising the contents they have learnt. Guidance and support was provided for internships. Value added courses were floated across all the departments to bridge the gap between curriculum and industry and to impart academic flexibility to the students.

File Description	Documents
Paste link for additional information	<a href="https://siesgst.edu.in/images/AQAR_2021-22/6.5.1.pdf">https://siesgst.edu.in/images/AQAR_2021-22/6.5.1.pdf</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

The teaching-learning process is regularly reviewed by IQAC.

### 1. Regular Academic Review Processes

Program Assessment Committee in each department verifies and approves the Course Outcomes (COs) of all courses, mapping of COs to Program Outcomes and Program Specific Outcomes. Quality Improvement Committee verifies the theory and lab session plan as per University of Mumbai guidelines and suggestions are given if any correction/improvement is required. Department Advisory Board

gives recommendations for the overall academic improvement of the department. The gaps identified by the department are also approved and then the activities are conducted Syllabus completion report is collected twice in a semester from each department. Academic Audits are conducted periodically to verify and ensure that the processes are followed correctly.

## 2. Efforts for better outcomes

The initiatives are taken to include an observer from interdisciplinary departments to review and improve the quality of final year projects developed. The value-added courses with internship-based project, across various disciplines on emerging technologies are offered in the summer and winter vacations, 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.

File Description	Documents
Paste link for additional information	<a href="https://siesgst.edu.in/images/AQAR_2021-22/6.5.2%20Data%20From%20all%20Department-Final%20Single%20pdf%20(1).pdf">https://siesgst.edu.in/images/AQAR_2021-22/6.5.2%20Data%20From%20all%20Department-Final%20Single%20pdf%20(1).pdf</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)**

**A. All of the above**

File Description	Documents
Paste web link of Annual reports of Institution	<a href="https://siesgst.edu.in/docs/Annual_report_21-22.pdf">https://siesgst.edu.in/docs/Annual_report_21-22.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

SIES, Graduate School of Technology, is committed to gender justice in its true sense. Hence, sincere and conscientious efforts are taken to conduct various activities which are committed to Gender Sensitization. All such activities were an effort to increase gender sensitization and gender equality among all the stakeholders so that students can flourish to be empathetic, emotionally intelligent, genuinely happy technocrats. Awareness was given to students by conducting seminars. 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 the safety, and security of girls. An adequate number of CCTV cameras are installed in the campus for safety and security. The institute also has common rooms for boys and girls separately. 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, and Safety through skits and dramas. An experienced Lawyer was called to discuss Legal Formalities and Laws related to women's empowerment.

File Description	Documents
Annual gender sensitization action plan	<a href="https://siesgst.edu.in/docs/AQAR-2021-22/Criteria%207/7.1.1%20action%20plan%20-%200updated.pdf">https://siesgst.edu.in/docs/AQAR-2021-22/Criteria%207/7.1.1%20action%20plan%20-%200updated.pdf</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://siesgst.edu.in/docs/AQAR-2021-22/Criteria%207/7.1.1%20specific%20facilities.pdf">https://siesgst.edu.in/docs/AQAR-2021-22/Criteria%207/7.1.1%20specific%20facilities.pdf</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**

Commitment towards society is taken to a new level by the NSS unit of the SIES Graduate School of Technology (SIESGST) which believes in the motto, "NOT ME BUT YOU". The unit of SIESGST has played a prominent role in this by organizing various awareness programs, conducting tree plantations and various other activities. Many initiatives have been taken like solid Waste Management to achieve a healthy and conducive environment on our campus. We have set separate 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 five compost pits installed by SIESGST in association with Stri Mukti Sanghatna. Corrugated boxes were upcycled to make creative dustbins that were placed in each classroom for collecting dry waste.

The management has taken the initiative 6R to ban plastic in

campus. E-waste generated in the campus is collected through the maintenance team and is safely disposed off 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.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	<a href="#">View File</a>
Geo tagged photographs of the facilities	<a href="https://siesgst.edu.in/docs/AQAR-2021-22/Criteria%207/7.1.3%20colored%20geotag%20photos.pdf">https://siesgst.edu.in/docs/AQAR-2021-22/Criteria%207/7.1.3%20colored%20geotag%20photos.pdf</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**

**B. Any 3 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:**

- 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**

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

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**

**B. Any 3 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	<a href="#">View File</a>
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 is aware and respectful towards the rich cultural diversity of the Indian society. People of all cultural orientations work in harmony that is safe from abuse, harassment, or unfair criticism. Equal opportunities are provided to the students irrespective of their caste, creed, religion, and region while conducting various events and activities conducted throughout the session. The NSS Unit and student Council make sure that all sections of the student community are well represented while planning and conducting various competitions, events or activities.

Our institute very proudly claims that there has been no case of ragging in the last decade. An active Grievance Redressal Cell helps in addressing various grievances among students and maintains a harmonious and cordial atmosphere among the student community. Cultural diversity is also celebrated through various programs like Open Mic, Cultural Week during the annual fest showcasing rich traditions from different corners of the country. For all the newcomers the institute arranges a weeklong FE induction program to give them a delightful start to their four years of engineering journey. Exclusive competitions are organized by senior students for first-year students. The bonds are strengthened when the learning takes place within the peer group.

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

The ancient Indian education system always withstood such ravages of time but now we need to make it even more robust so that the new generation of students get fully prepared with the right set of values in one hand and technology on the other. Such holistic all-round education to the students includes sensitizing students on our constitutional rights, values, duties and responsibilities. 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. The 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.

The NSS unit conducts a cleanliness drive to mark the occasion of Swachh Bharat Abhiyan in the college 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

<p><b>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></p>	<p><b>B. Any 3 of the above</b></p>
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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	<b>No File Uploaded</b>

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

Celebrating important days and commemorative events is necessary in order to pay tribute to some great people associated with them. We believe that our youth need such role models to emulate and get inspired to strive for excellence. Therefore, each day starts with the National Anthem. All national festivals are celebrated with equal enthusiasm to inculcate a sense of patriotism in the students. So, two minutes of silence is observed on 26th July to pay homage to the martyrs of the Kargil War.

NSS and council students highlight social problems through performances like dance, skits, speeches etc. The birth and death anniversaries of great Indian personalities like Chhatrapati Shivaji Maharaj and Mahatma Gandhi are observed with great reverence in the institute. The annual technical festival, Cognition, is conducted on Sept 15 to commemorate the birth anniversary of Shree Mokshagundam Visvesvaraya. Printer's Day is celebrated as a tribute to its pioneer Johann Guttenberg. The institute celebrates International Women's Day in very meaningful

ways. Contributions made by women in various fields are acknowledged and celebrated with great fervor. Marathi Bhasha Divas is celebrated with lot of activities to preserve the linguistic and cultural richness which the mother tongue alone can guarantee.

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.

### 1. Environment & Sustainability :6RPlastic Ban Activity

Under 'Mission 6R' (Refuse, Reduce, Reuse, Repurpose, Recycle, Rejuvenate), We conducted several Plastic Collection Drives in Navi Mumbai. We handed over the plastic to the NMMC and recycling factories. We performed a Street play on the topic 'Plastic waste' consisting of 'why to stop using Plastic as they are non-renewable, how it's killing many lives, then the benefits of recyclability, and at the end with a pledge to 'Avoid using plastic or else reuse it '.

Faculties started using steel water bottles and Glass/metal Tiffin boxes. There is a Ban on Single-use plastic in Canteen & stores, plastic banners, etc.

### 2. Student Development Programs

The value-added courses of 40 hrs with 15 days internship-based project designed by the course coordinator and industry experts after brainstorming on the industry-academia gap, and interdisciplinary skills, are offered during the winter vacation 2021 for TE and BE students of all branches.

The course is focussed more on the practice of skills, technological tools, and hands-on sessions are Natural Language

Processing using Python, 30 students benefitted, Full Stack Web Development, 65 students benefitted, Blockchain Technology, 22 students benefitted, Structural Modelling and 3D Printing, 12 students benefitted

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

To inculcate the values and lifelong learning skills in the students, we organize technical events like Project development competitions, Entrepreneurship development workshops, and Ethical and Human value development workshops for the holistic development of the students to improve their skills through well-structured Student council and professional bodies like IETE, CSI, IEEE, ISHRAE, IPI.

We organized various events on recent technologies to upgrade their technical skills. SIES GST has adopted an effective monitoring system for their academic projects and organizes seminars by industry experts. IEEE chapter has received the 'Best Student Chapter', and the 'Darel Chong Student Activity award 2021-Bronze' awards during 2021-22. Under CSI, national-level 'Data Privacy Day was celebrated with a poster presentation competition held on 28.01.2022.

Under SAE, students are excelling well with good ranks in ATV competitions held at the All India level. Under IETE, TECHXTER, a national-level technical paper presentation competition was held at SIES.

SIES GST has Entrepreneurship Development Cell to impart and develop innovation and entrepreneurship skills by conducting workshops/seminars and providing linkages with the industry. Institution Innovation Council (IIC) of SIES GST has received 3.5 stars from the Ministry of Human Resource Development (MHRD), Government of India for active participation in IIC events.

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

### 7.3.2 - Plan of action for the next academic year

#### 7.3.2: Action Plan:

As per the strategic plan of our institute following activities are planned for the academic year 2022-23.

##### 1. MOOC:

Institute preparedness for NEP2020 in strengthening online education demands the creation and deployment of Massive Open Online Courses [MOOCs] courses. It is an online platform made possible by the acknowledged expert(s) in a field of study, freely accessible online resources, and thousands of registered students. These courses have free, open enrollment to anyone anywhere with network access. MOOCs do not seek or require accreditation. Students self-organize their participation in a MOOC.

We at SIES, are in a developing phase of MOOCs and to strengthen this activity, we have set one of the institutional objectives to develop MOOC courses in 2022-23.

##### 2. National Conference / Symposium:

To organize a National conference to provide a platform for students, academicians, practitioners, researchers, and the industry to publish and present their innovative work in Industry 4.0 technologies. Industry 4.0 is marked by breakthroughs in emerging technologies in fields such as robotics, artificial intelligence, nanotechnology, quantum computing, biotechnology, the internet of things, the industrial internet of things, decentralized consensus, fifth-generation wireless technologies, 3D printing, and fully autonomous vehicles.