

## Vision and Mission

### 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.

## Quality Policy

The SIES Graduate School of Technology is committed to high standards of Engineering Education. Our aim is to advance in the various facets of learning opportunities by providing multiple study options through perfect blend of:

- Academic Excellence,
- Teaching-Learning Processes and
- Teacher-Student Mentoring based on our Quality Management System which will enable learners to thrive in the rapidly evolving environment.

## Values

“Work is Worship” is a guiding principle at SIES GST. SIES Graduate School of Technology believes in building a strong personality and an unshakable character of a student as an important step towards nation-building.

Nurturing young minds is a vital responsibility and we at SIES GST have set bedrock values

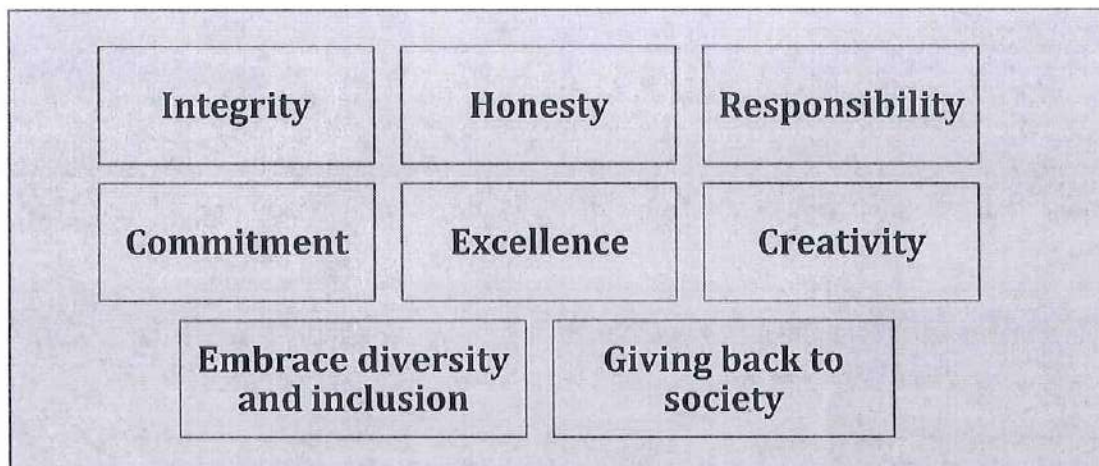


**PRINCIPAL**  
S. I. E. S. GRADUATE SCHOOL OF TECHNOLOGY  
Sri Chandrasekarendra Saraswathy Vidyapuram  
Sector-V, Nerul, Navi Mumbai-400706

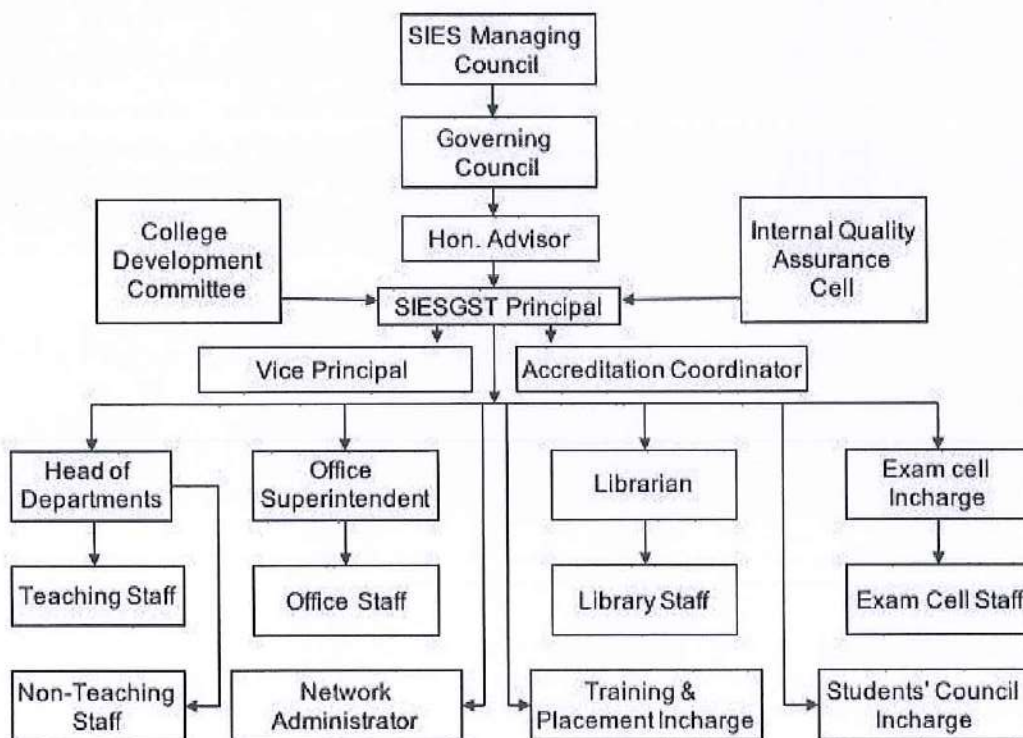
and goals which guide the attitudes and behavior of the members of the GST family.

It is said that there are no short-cuts on the road to success. Educating students to differentiate between right and wrong and motivating them to choose the right path and strive for excellence is imperative. The following values are interspersed in all aspects of the teaching-learning process:

## Core Values



## Organizational structure



## Governing Council members 2018-19

Members of the Board and their brief background

Name of the Member	Designation	Background
Mr J Santhanam	Chairman, BOG	Vice-President-Commercial
Mr P Sethuraman	Member, BOG	Retired Corporate Professional
Mr M V Ramnarayan	Member, BOG	Director - Corporate Professional
Prof K Venkatramani	Member, BOG	Educationist
Mr C N Sivaramakrishnan	Member, BOG	Educationist
Mr U Shekar	Member, BOG	Educationist
Mr Ashwin Shroff	Member, BOG	Industrialist
Mr J Rajaraman	Member, BOG	Industrialist
Director, DTE	Member	
Nominee of University of Mumbai	Member	
Dr Atul N Kemkar	Member Secretary	I/c. Principal of the Institute
Dr Pradip S Patil	Member	Associate Prof. Mech. Engg. Dept.
Ms Sumitra P Iyer	Member	Assistant Prof. H & AS. Dept.

## IQAC Members

NO.	NAME	DESIGNATION
1.	Dr. Atul N. Kemkar	IQAC Chairperson, I/C Principal & HOD - Electronics & Telecommunication Engineering
2.	Dr. Manasi M Karkare	Dean - Humanities & Applied Sciences
3.	Prof. Aparna Bannore	HOD - Computer Engineering
4.	Dr. Lakshmi Sudha	HOD - Information Technology
5.	Prof. Prasad Iyer	NAAC Coordinator & HOD - Printing & Packaging Technology
6.	Dr. Rupendra S. Nehete	HOD - Mechanical Engineering
7.	Prof. K Venkatramani	Management Representative
8.	Dr. P. V Parameswaran	Hon. Advisor, SIESGST
9.	Prof. Seema Khan	I/c - T&P Cell
10.	Prof. Shubhangi Kadu	I/c - Examination Cell
11.	Prof. Sumitra Padmanabhan	NAAC Coordinator & I/c - Students' Council
12.	Dr. Rajesh Kadu	Industry Institute Interaction Coordinator
13.	Mrs. V. Vijayalakshmi	Office Superintendent
14.	Mr. Ramesh Bidi	Librarian
15.	Mr. Saikrishna	I/c - Network Administration
16.	Mr. Saurabh Prabhu - Research Analyst, Crisis Ltd.	Alumni Representative
17.	Mr. Tejas Kulkarni	President, Student Council
18.	Dr. Sanjay Saraswat - Vice President-India R&D, Airspan Networks	Industry Representative
19.	Mr. S. Srinivasan - Head-Customer Relations, Siemens Healthcare Pvt. Ltd.	Industry Representative
20.	Mr. C. Subramaniam HR President, Sivarani's Silk Pvt. Ltd.	Parent Representative
21.	Prof. Leena Ladge	Assistant Professor, Information Technology & IQAC Coordinator

  
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## Quality Initiatives IQAC

- NBA accreditation and NAAC reassessment
- NIRF and ARIIA participation
- Academic Administration Audit Planning
- Training Program for Faculty members
- E-Resource Development
- Outcome Based Policy-
- Webinar Series
- Structured Committee Activities

## Academic and Administrative Audits

The National Assessment and Accreditation Council (NAAC) has evolved tools and guidelines for improving quality for different levels of Higher Education Institutions (HEIs) and for its sustenance. The

regular internal and external audits by Internal Quality Assurance Cell (IQAC) ensures sustenance of proper quality standards in all the academic and administrative activities. The monitoring and evaluation of the institutional processes require a carefully structured system of internal and external review and is done in compliance with NAAC and NBA.

### About Academic and Administrative Audit (AAA):

Both Academic and Administrative Audit (AAA), are very essential to excel in Higher Education. Regular audits are conducted, at least one per semester.

**Academic Audit:** - Academic audit helps review the quality of academic process in the institution and helps enhance the quality of academic activities in HEIs.

**Administrative Audit:** - This includes assessment of policies, strategies & functions of the various administrative departments, control of the overall administrative system etc.

## Management Review presentations

Management review meetings are conducted once every semester to review the achievements of Department and Institute objectives.

## Need for Strategic Plan

During the past decade, engineering and management education has undergone immense changes. While the demand for excellent quality education has increased steadily, the number of technical institutes has also dramatically increased. This has resulted in an intense competition for high caliber



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## STRATEGIC PLAN 2018-2025

students and faculty. It is essential in this dynamic environment to determine the strategic objectives and quantifiable targets, measuring the performances of the predetermined indicators, and monitor & evaluate the strategic plan. It is a participative approach that enables the institute to prioritize the resources in accordance with the objectives mentioned in the strategic plan.

In alignment with the SIES's Mission 2025, the SIES GST shall contribute to this endeavor of being amongst the most admired academic institutions in India with this seven year strategic plan.



### SIES SHALL BE AMONGST THE MOST ADMIRABLE ACADEMIC INSTITUTIONS IN INDIA

<h4>WHAT DOES ADMIRATION MEAN?</h4> <p>A feeling of wonder, pleasure or approval.</p> <p>The act of looking on or contemplating with pleasure</p> <p>Approval, esteem, regard, affection, veneration, honor, idolization, reverence - synonyms for admiration</p>	<h4>OUR ADMIRATION SHALL FLOW FROM</h4> <p>The quality of our efforts in the field of education</p> <p>The quality – the reach, the expanse and sweep of our academic services</p> <p>Our respect for 'Law' at all times</p> <p>The creation of an SIES Family where a full family tree would have experienced SIES as students</p>	<h4>WHAT DOES THAT CONVEY FOR SIES?</h4> <p>We shall confine ourselves to our core competence i.e. universalising education</p> <p>We shall redefine the boundaries of our activities beyond Mumbai, Navi Mumbai to India</p> <p>We need not be 'BIG' but shall endeavour to be the 'BEST'</p> <p>We shall be 'Admired' for our activities in life learning process through 'Education' The admiration shall come from all stakeholders – students, staff, society</p> <p>Our scale of admiration shall be based on the value addition we provide during the student days</p> <p>We shall ever remain 'Student centric' for we have no existence without them</p>	<h4>IT'S HALF WAY THROUGH OUR CENTENARY IN 2032</h4> <p>Phase I – GOALS</p> <p>Student strength to reach over 50,000</p> <p>SIES – University for Higher education</p> <p>All institutions accredited at the highest grade 'A' for e.g. in NAAC</p> <p>Socially responsive education. Beyond the classrooms or social media. 'ISR' the dominant face of SIES. A Good share of admiration from ISR.</p> <p>Most vibrant network of Alumni, Past Teachers and Staff, present human resources creating the vast SIES Family.</p> <p>Phase II – Goals and action plan in 2022</p> <div style="text-align: center;">  </div>
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#### THE IDENTITY FOR ANY SIES INSTITUTION

- A distinct logo within the SIES logo
- A value lab
- An ISR Department
- A Past Student's Association within the institution without separate legal existence
- An active forum for parents and teachers
- Capitation Free Merit based student enrollment at all levels
- Highest accreditation from a National Agency
- Research unit

  
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## Strategic Planning Process

Strategic planning process was conceived as an IQAC initiative. The IQAC, with the inputs of principal, registrar, heads of department, section in charges and senior faculty members developed the strategic plan. The plan is aligned with the institute's vision, mission, and goals which in turn is aligned to SIES Mission 2025 and capable of guiding strategic decisions and action plans. The entire process is depicted in the diagram below:



## SWOC

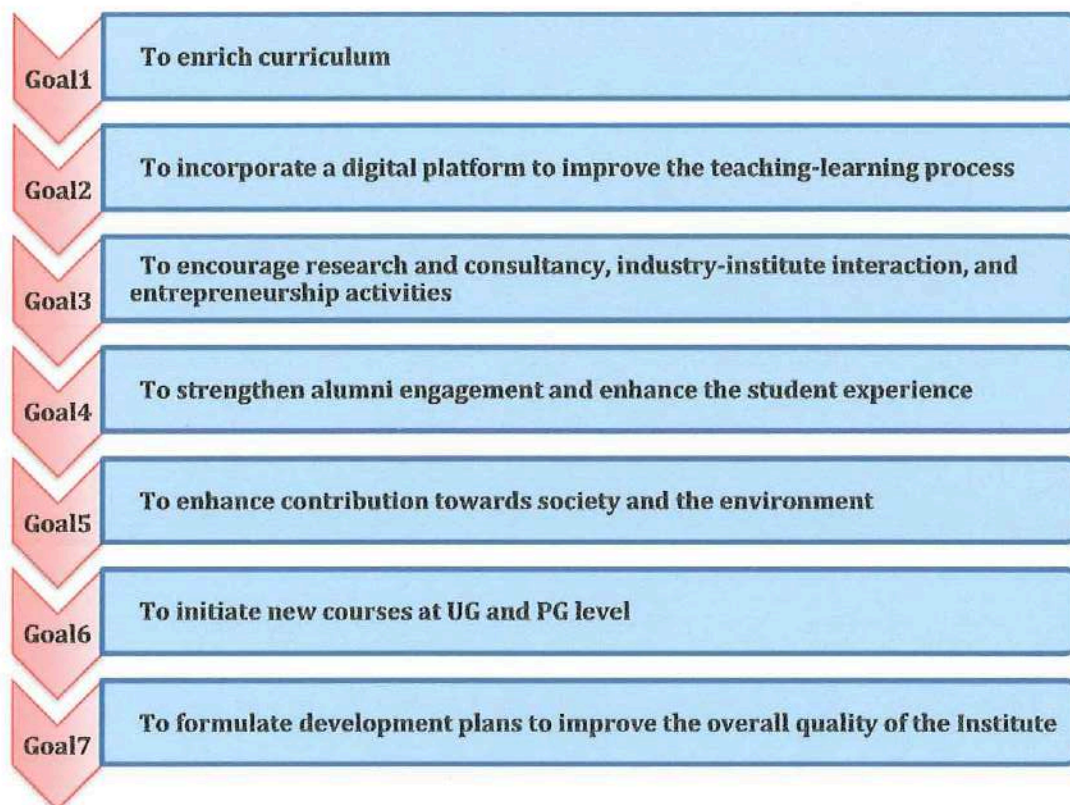
<b>Institutional Strength</b> <ul style="list-style-type: none"> <li>• Management: Strong and supportive management which has a progressive view and provides holistic development of its students and staff.</li> <li>• Conducive environment and state of the art Infrastructure</li> <li>• Learner centric &amp; ICT enabled Teaching– Learning process,</li> <li>• Academic Audit and Beyond Syllabus</li> <li>• Social responsibility</li> </ul>	<b>Institutional Weakness</b> <ul style="list-style-type: none"> <li>• International engagement in terms of student and faculty exchange programs</li> <li>• Limited number of research publications in peer-reviewed journals.</li> <li>• Limited research grants, consultancies, and patents.</li> <li>• Faculty upgradation to keep in pace with changing technologies and pedagogy</li> </ul>
<b>SWOC</b>	
<b>Institutional Opportunity</b> <ul style="list-style-type: none"> <li>• International collaborations</li> <li>• Increase in Industry Institute Interaction through MoU with reputed institutions and premier industries.</li> <li>• Enhancing alumni collaboration.</li> <li>• New courses at UG and PG level</li> </ul>	<b>Institutional Challenge</b> <ul style="list-style-type: none"> <li>• Changing admission scenario in engineering and technology due to wide availability of other professional programmes</li> <li>• Unpredictable placement opportunities</li> <li>• Availability of competent Ph.D. faculty</li> <li>• Space constraint being in a Metropolitan city like Mumbai</li> </ul>

## Strategic Plan Implementation and Monitoring

Implementation of the strategic plan shall be steered by the Principal. The heads of the department and section in charges as depicted in the organogram shall assist in implementation and monitoring. The deployment status/ tracking to be submitted and reviewed periodically through IQAC.

## Strategic Goals 2018-2025

Considering the vision mission quality policy core values SWOC analysis, following strategic goals were finalized by the members of the IQAC committee to improve the quality and quantity of research, holistic development of students, engagement with industry and alumni, and enhance the student experience.



  
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### Goal 1. To enrich curriculum

To sustain in the current competitive environment, it is immensely important to impart high-quality education. Thus, it is essential to bring rigor to academic processes. The first step towards the same is to strengthen the planning of academic and administrative activities throughout the academic year.

#### 1.1 Department Advisory board

The institute aims at creating specialized clusters in the technical domain to ensure curriculum enrichment by identifying gaps and accordingly, designing various beyond syllabus activities for strengthening the Academic Administration.

#### 1.2 Development of Course Objective and Course Outcomes to foster Outcome-Based learning

To make the teaching-learning process more effective it is essential to define the course objectives and specific course outcomes for undergraduate courses. Thus, all courses are designed with a view of Outcome-Based Learning (OBE).

#### 1.3 Preparation of the Academic-Activity Calendar, a planning document for students, faculty, staff, and departments for each semester

#### 1.4 To enhance curriculum delivery beyond syllabus activities:

1. Industrial Visits
2. Guest lectures
3. Internships
4. Problem-Based Learning
5. Certificate programs
6. Student Seminars

#### 1.5 To offer industry-oriented certification courses/projects

1. MOOCs
2. Value Added Courses



## STRATEGIC PLAN 2018-2025

3. Industry Projects

4. Expert talks

### 1.6 Innovative teaching methods

1. Experiential learning, Innovative assignments, TPS

### 1.7 Result Improvement

Analyzing student results to design teaching methods to address the student needs to improve their performance at the end term exam.

### 1.8 Academic Audit

S.No	Strategic Objectives	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25
1.1	Department Advisory board							
1.2	Development of Course Objectives and Course outcomes to foster Outcome Based Learning							
1.3	Academic-Activity Calendar							
1.4	To enhance curriculum delivery beyond syllabus activities							
	Industrial Visits							
	Guest lectures							
	Internships							
	Problem-Based Learning							
	Certificate programs							

## STRATEGIC PLAN 2018-2025

	Student Seminars							
1.5	To offer industry-oriented certification courses/projects							
	MOOCs							
	Value Added Courses							
	Industry Projects							
	Expert talks							
1.6	Innovative teaching methods							
1.7	Result Improvement							
	Remedial session							
	Extra classes for DSE							
	Preliminary Exam							
	Additional practice assignment							
	Extra lectures for difficult subjects							
1.8	Academic Audit							
	Course file							
	Faculty file							
	Feedback from all stake holders							



## STRATEGIC PLAN 2018-2025

### Goal 2: To incorporate a digital platform to improve the teaching-learning process

Institute has a well-planned teaching-learning process and has a robust methodology for rolling out the process. The institute believes in quality teaching. Content delivery and dissemination methods are continuously updated to make teaching-learning more prolific.

#### 2.1 To develop innovative teaching, learning, and assessment methods

1. Use ICT for effective teaching with E-Learning resources.
2. Content delivery- traditional teaching methods be supplemented with lecture management through digital platform methods (e-content / e assignments/ ppts etc.)
3. Recording of lectures and making it available digitally.

#### 2.2 Transparency in continuous evaluation

#### 2.3 Attendance Monitoring systems

#### 2.4 Online student portal for academic and non-academic activities

S.No	Strategic Objectives	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25
2.1	To develop innovative teaching, learning, and assessment methods							
	Use ICT for effective teaching with E-Learning resources							
	Development of e-content							
	Recording of lectures and making it available digitally							

## STRATEGIC PLAN 2018-2025

2.2	Transparency in continuous evaluation							
2.3	Attendance Monitoring systems							
2.4	Automated library							

  
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## STRATEGIC PLAN 2018-2025

### Goal 3: To encourage Research & Consultancy, Industry Institute Interaction and Entrepreneurship activities

The Industry-Institute Interactions make the teaching and research more relevant. The institute aims to create collaborations with industry in terms of consultancy, sponsored research projects, technology transfer, etc.

Following actions/ activities shall be planned by the institute to encourage Research & consultancy, Industry Institute Interaction and Entrepreneurship activities.

#### 3.1 To strengthen research activities in the institute

- Organizing a research conference and research symposium every alternate year
- Sponsorship to faculty to encourage participation in research activities on and off-campus
- Developing the sponsored research through minor research proposals

#### 3.2 To establish an innovation ecosystem for the encouragement of the entrepreneurial skills - E Cell/ IPR/preincubation/startup Activities

#### 3.3 Establish a productive partnership between industry/ reputed organizations/ academic institutes for consultancy and internships

- To develop the short-term courses/ value-added courses in association with senior industry personnel
- To enhance the interface with industry and institutes of repute
- Expert lectures/ seminars

## STRATEGIC PLAN 2018-2025

	Strategic Objectives	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25
3.1	To strengthen research activities in the institute							
	Research conference and research symposium /STTP							
	Sponsorship to faculty to encourage participation in research activities on and off-campus							
	Sponsored research through research proposals							
	Number of research papers in conferences							
	Number of research papers in journal							
	Books written							
3.2	To establish an innovation ecosystem for the encouragement of the entrepreneurial skills - E Cell /IPR/Pre incubation/startup Activities							



## STRATEGIC PLAN 2018-2025

3.3	Partnership between industry/ reputed organizations/							
	Internships							
	Consultancy work							
	Industry projects							
	MOU							
	Expert session/seminars							
	Short term courses							
	Value-added courses							
	Training program for faculty							
	Training by faculty							
	Industry labs							

### Goal 4: To strengthen alumni engagement and student experience

To enhance the experience of students on campus the holistic development of students is essential. To facilitate the same institute shall encourage the co-curricular and extra-curricular activities on campus.

Alumni is one of the key stakeholders of the institute. The feedback received from the alumni is vital for the progression and growth of the institute. Institute has Alumni committee in place to manage alumni interactions.

Following actions/ activities shall be planned by the institute to enhance student experience and strengthen alumni engagement:

- 4.1 Ensure value addition through quality teaching and learning
- 4.2 Enhance facilities for recreation, and sports on campus
- 4.3 Participation of students in various competitions organized at Institute, State or National level
- 4.4 Strengthen professional chapters
- 4.5 Improve the number of students placed
- 4.6 Provide schemes to encourage higher studies
- 4.7 Mentor mentee scheme
- 4.8 Online student portal for academic and non-academic activities
- 4.9 Professional Counseling and emergency medical service to the students on campus
- 4.10 Promoting alumni networking with students -
  - Get inputs from Alumni on planning the co-curricular activities to mitigate the gap between industry and academic
  - Inviting alumni for the Guest Lectures, conducting workshops, judges for competitions, viva panelists etc.
- 4.11 Student feedback on resources and infrastructure

## STRATEGIC PLAN 2018-2025

	Strategic Objectives	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25
4.1	No. of students enroll for Certification/ Diploma courses							
4.2	Facilities for recreation, and sports on campus							
4.3	No. of student participation in extracurricular activities							
	No of program organized by the institute							
	No of award/ medals won							
4.4	No of activities undertaken							
	Awards and Recognition to students							
4.5	Percentage of student placed							
	Maximum salary							
	Median Salary							
	No of skill development schemes to improve placement							
4.6	No of students pursuing higher studies							
	Initiatives taken to assist students for higher studies							
4.7	Mentor Mentee interactions							



## STRATEGIC PLAN 2018-2025

4.8	Online student portal for academic and non-academic activities							
4.9	Professional Counseling and emergency medical service to the students on campus							
4.10	Promote alumni networking with students							
	Alumni association and measures to enhance members							
	Alumni contribution							

## STRATEGIC PLAN 2018-2025

### Goal 5: To enhance contribution towards society and the environment

SIES GST engages its faculty and students with the various societal activities to effectively execute its stated mission. The institute expects that such engagements are required to build the perspective and to create the awareness among faculty and students about the needs and issues of the society.

To increase such involvement of faculty and students following actions / activities shall be planned

5.1 To encourage students to opt for the elective courses that address gender bias, environment and sustainability issues

5.2 To encourage students and the faculty to take up the projects relevant to society to provide solutions

5.3 To involve students in green campus initiatives & waste management.

5.4 To plan various social initiatives contributing towards local community

5.5 Measures to improve waste disposal and e-waste collection

S.No	Strategic Objectives	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25
5.1	Number of opting for the elective courses that address gender bias, environment and sustainability issues							
5.2	Number of projects relevant to society to provide solutions							

## STRATEGIC PLAN 2018-2025

5.3	Number of green campus initiatives & waste management.							
5.4	Number social initiatives contributing towards local community							
5.5	Measures to improve waste disposal and e-waste collection							



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## STRATEGIC PLAN 2018-2025

### Goal 6: To initiate new courses at UG and PG level

To provide students with courses in latest technology and to strengthen research activities, Institute will be completing NBA and NAAC

#### 6.1 Prepare to complete accreditation process

S. No	Strategic Objectives	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25
6.1	Complete accreditation process							



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## STRATEGIC PLAN 2018-2025

### Goal 7: To formulate development plans to improve the overall quality of the Institute

S.No		2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25
7.1	Participate in NIRF, ARIIA, MHRD							
7.2	IQAC Meetings							
7.3	Add / Update the organizational standard operating processes							
7.4	Internal and External audits							
7.5	Participation of staff in training programmes							
7.6	Organization of STTPs/ FDPs/ training within Institute							
7.7	Strengthening library & Increasing learning resources							
7.8	Maintenance of Infrastructure							
7.9	Regular updation of new lab equipment							
7.10	Development of new infrastructure							
7.11	No of faculty acquiring PhD							

## STRATEGIC PLAN 2018-2025

7.12	Awards and Recognitions to Institute							
7.13	Awards and Recognition to faculty							
7.14	Stakeholder feedback mechanism							
7.15	Green Initiatives taken & Policies for same							

  
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## Deployment for AY 2018-19 & 2019-20- IT department

### Compliance report for the academic year 2018-19 with respect to Strategic Plan 2018-2025

Goal 1		To enrich curriculum		
S.N o	Strategic Objectives	2018-19	2019-20	Remarks
1.1	Department Advisory board	Two meetings conducted	One meeting conducted	Conducted two meetings on 29/9/2018 and 12/4/2019 for the Academic year 2018-19. Conducted one meeting on 18/10/2019 for the academic year 2019-20.
1.2	Development of Course Objectives and Course outcomes to foster Outcome Based Learning	Done	Done	Done by the University for each subject during syllabus revision in R 2012, R 2016 and R 2019. However faculty has the flexibility to update the Course Outcomes.
1.3	Academic-Activity Calendar	Prepared	Prepared	Prepared in the beginning of every semester.
1.4	To enhance curriculum delivery beyond syllabus activities	Conducted	Conducted	Organized Industrial visits, guest Lectures, student seminars etc. to enhance curriculum delivery beyond syllabus activities.
	Industrial Visits	3	1	Organised 4 Industrial visits in the industries like TCS, Anunta Tech, Reliance Jio etc.

	Guest lectures	18	11	Organised guest lectures to enrich the curriculum for the respective subjects.
	Internships	41	53	Completed industry internships by students and 28 students completed internal internship in 2019-20
	Problem-Based Learning	Implemented	Implemented	Students were encouraged to analyze real world problems and provide guidance to implement the projects. For example: IoT, InP, AADL mini projects.
	Certificate programs	2	3	2 Programs were conducted in 2018-19 on Machine learning with R and Machine Learning with Python and 3 Programs were conducted in 2019-20 on CCNA, Skill development and Data mining and analytics
	Student Seminars	SE-75 TE-80	SE-69	Every even semester, seminar is conducted for students to explore and gain more knowledge in curriculum
1.5	To offer industry oriented certification courses/projects	Offered	Offered	To make students industry ready 2 Programs were conducted in 2018-19 on Machine learning with R and Machine Learning with Python and 3 Programs were conducted in 2019-20 on CCNA, Skill development and Data mining and analytics
	MOOCs	1	2	NPTEL, Coursera
	Value Added Courses	Nil	Nil	
	Industry Projects	5	1	2018-19: 1. Web Analytics in Lab Systems.Mr. Biren Arora- TE IT) 2. Image Analysis in Lab Systems.(Mr. Abhirup K- TE IT)

				<p>3. Ellipsis Health Companion, Ellipsis research and business solutions Pvt.Ltd.(Mr. Venkatesh- BE IT)</p> <p>4. Blockchain and ryptocurrency Analysis (Mr. Vinay Vishwanath, AVP, Lab Systems.</p> <p>5. 3D modulation and simulation of nuclear reactor plant (Mr. Dinesh K. Maurya, Scientific Officer , BARC)</p> <p>2019-20: Implemented the Landing Page Website project for the Lab systems(Adwait, Ritvij, Yash, Akshay-TE IT).</p>
	Expert talks	18	11	Organised expert talks by the industry expert to enrich the curriculum.
1.6	Innovative teaching methods	Implemented	Implemented	Apart from the Traditional teaching, faculty used innovative methods in teaching like TPS, problem based learning etc.
1.7	Result Improvement	<p>Compared to 2017-18:</p> <p>17-18 18-19. +/-</p> <p>SE: 81.08 82.66 +1.58%</p> <p>TE: 98.68 96.15 -2.53%</p> <p>BE: 89.85 100 +10.15%</p>	<p>Compared to 2018-19:</p> <p>18-19 19-20 +/-</p> <p>SE: 82.66 100 +17.34%</p> <p>TE: 96.15 100 +3.85%</p> <p>BE: 100 - - %</p>	Results shown are having improvement.
	Remedial session	Conducted	Conducted	Each faculty conducts the BMW for their subject, motivates and guides the students. Remedial lectures conducted for needy students.
	Extra classes for DSE	Conducted	Conducted	Conducted extra lectures for all the Theory/ labs for DSE students.
	Preliminary Exam	Not conducted	Not conducted	Assignments will be given for students and also extra lectures conducted for the students.
	Additional practice assignment	Conducted	Conducted	



	Extra lectures for difficult subjects	Conducted	Conducted	
1.8	Academic Audit	External Audit-1 Internal Audits-2	External Audit-1	<p>1. External Audit conducted by Dr. Sachin Bojewar, Professor, Department of Information Technology, Vidyalankar Institute of Technology, on 17/6/2019 for the Academic year 2018-19. <a href="https://drive.google.com/file/d/1n2UBVzj8fOYG0je9LAR5II3drsHpN10E/view?usp=sharing">https://drive.google.com/file/d/1n2UBVzj8fOYG0je9LAR5II3drsHpN10E/view?usp=sharing</a></p> <p>2. External Audit conducted by Dr. Sachin Bojewar, Professor, Department of Information Technology, Vidyalankar Institute of Technology, on 21/11/2019 for SH 2019. <a href="https://drive.google.com/file/d/1PCFQdZObAokipTT-236tyYIA_SFHTg_Q/view?usp=sharing">https://drive.google.com/file/d/1PCFQdZObAokipTT-236tyYIA_SFHTg_Q/view?usp=sharing</a></p> <p>3. Internal Audit was conducted on 4/7/2019 and 1/12/2018 for the Academic year 2018-19.</p>
	Course file	Yes	Yes	Each faculty maintains the course file for each subject which includes Session plan, attainment, Question paper, Lecture notes etc. This will be audited in each semester.
	Faculty file	Yes	Yes	Maintained by each faculty.
	Feedback	Yes	Yes	Conducted at least twice a year. Also suggestions given to the faculty for improvement..

## Goal 2

To incorporate a digital platform to improve the teaching-learning process

S.N o	Strategic Objectives	2018-19	2019-20	Remarks
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2.1	To develop innovative teaching, learning, and assessment methods	Developed	Developed	conducted based on the course / batch requirements and maintained in the course file.
	Use ICT for effective teaching with E-Learning resources	Done	Done	
	Development of e-content	Yes	Yes	
	Recording of lectures and making it available digitally	No	Yes	
2.2	Transparency in continuous evaluation	Yes	Yes	The solution key shared is with students after the exam and the paper evaluation is discussed in the class.
2.3	Attendance Monitoring systems	Yes	Yes	Defaulters' list taken at regular intervals. Typically thrice in a semester.
2.4	Automated library	Library automation consists of e-Granthalaya by NIC, New Delhi	Library automation consists of Koha, an open source integrated library management system.	Facility to access e-Granthalaya provided within GST Campus. Koha catalogue can be accessed anywhere. Centrally made available

<b>Goal 3</b>	<b>To encourage research and consultancy, industry-institute interaction and entrepreneurship activities</b>
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S. No	Strategic Objectives	2018-19	2019-20	Remarks
3.1	<b>To strengthen research activities in the institute</b>	Activities have been conducted to strengthen research activities.	Activities have been conducted to strengthen research activities.	Conducted(college level) various seminars on research/ patent writing to encourage faculty/ students.
	Research conference and research symposium /STTP	conferences-1 STTP-12	Conferences-14 STTP-13	2018-19:1paper published in conference. 12 faculty members attended STTP. 2019-20: 14 Papers are published in conferences. 13 Faculty members attended STTP.
	Sponsorship to faculty to encourage participation in research activities on and off-campus	Nil	Nil	
	Sponsored research through research proposals	3	2	2019-20: Ms. Savita Lohiya, Ms. Seema Redekar received Rs 30,000/- and Rs 25,,000/- from University of Mumbai. 2018-19: Ms. Lakshmisudha, Ms. Bushra, Ms. Stuti received 15,000/ , 30,000/-, 25,000/- respectively from University of Mumbai.



	<b>Number of research papers in conferences</b>	1	14	2018-19: 1 paper published in conference. 2019-20: 14 Papers published in conferences.
	<b>Number of research papers in journal</b>	13	4	2018-19: 13 papers published in UGC Journals 2019-20: 4 Papers published in UGC Journals
	<b>Books written</b>	Nil	Nil	
3.2	<b>To establish an innovation ecosystem for the encouragement of the entrepreneurial skills - E Cell /IPR/Preincubation/startup Activities</b>	E – Cell is functional at Institutional Level	MHRD – Institute Innovation Cell initiated. At Institute Level with 4 star rating	Implemented at college level.
3.3	<b>Partnership between industry/ reputed organizations/</b>	Excellent Partnerships established	Excellent Partnerships established	The Department Advisory Board consists of Industry experts, Academic experts and Alumni. We maintain Excellent relationships with industry / other educational institutes/ University.
	<b>Internships</b>	41	53	Completed industry internships by students and 28 students completed internal internship in 2019-20
	<b>Consultancy work</b>	Rs.40.000/- (2 projects)	7,500/-	2018-2019

				<p>1. Completed "Text extraction from Scanned Documents with Simplicite Creations Private Ltd."</p> <p>2. Completed "E-commerce Website Data Scraping with Simplicite Creations Private Ltd. 2019-20</p> <p>-Document gathering app from Ellipsis Research- In process.</p>
	Industry projects	5	1	<p>2018-19: 1. Web Analytics in Lab Systems.Mr. Biren Arora- TE IT)</p> <p>2. Image Analysis in Lab Systems.(Mr. Abhirup K- TE IT)</p> <p>3. Ellipsis Health Companion, Ellipsis research and business solutions Pvt.Ltd.(Mr. Venkatesh- BE IT)</p> <p>4. Blockchain and Cryptocurrency Analysis (Mr. Vinay Vishwanath, AVP, Lab Systems.</p> <p>5. 3D modulation and simulation of nuclear reactor plant (Mr. Dinesh K. Maurya, Scientific Officer , BARC)</p> <p>2019-20: Implemented the Landing Page Website project for the Lab systems(Adwait, Ritvij, Yash, Akshay-TE IT).</p>
	MOU	5	5	<ul style="list-style-type: none"> <li>• Department of Information Technology has signed MoU with ATS InfoTech Pvt. Ltd, a Microsoft- AEP on Feb 21, 2017.</li> <li>• Department of Information Technology has signed MoU with IoTPro, Bangalore on 29/07/2017.</li> <li>• Information Technology Department has signed MoU with Emtron Technologies Pvt. Ltd on 17/2/2018.</li> </ul>

				<ul style="list-style-type: none"> <li>Information Technology Department has signed MoU with Lab System (I) Pvt. Ltd- Pioneer in Digital Forensics in India, Mumbai on Apr 20, 2018.</li> <li>Information Technology Department has signed MoU with 9th Legend Inc on Apr 01, 2017.</li> </ul>
	Expert session/seminars	18	11	Organised expert sessions to enrich the curriculum for the respective subjects.
	Short term courses	2	3	Student development Programs conducted on various advance technologies such as Machine learning in R and Python, CCNA certification,
	Value-added courses	Nil	Nil	
	Training program for faculty	4	2	<p>2019-20: One-week STTP organized by the department on "DevOps and R Programming", organized an Orientation Program on "DevOps Lab" on 4th Jan 2020 at SIES GST,</p> <p>2018-19:</p> <ol style="list-style-type: none"> <li>1. Faculty Development Program was conducted on "Virtualization Overview- Vmware Vsphere 6.x" on August 14, 2018 by Mr. Imran Motani from Anunta Technology Management Services Ltd, Mumbai.</li> <li>2. Organized one week AICTE-ISTE approved Self-Financed Short term training program on "Computer Networks and Security" from 15/11/2018 to 22/11/2018.</li> <li>3. A Seminar on "Healthy Minds" was organized on 18 February 2019. Mr. Shriram Atri.</li> <li>4. Faculty Development Program on "GEOInformatics and Related Open Source" was conducted on Jan10-Jan 12, 2019.</li> </ol>



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Training by faculty	5	2	<p>2019-20:</p> <p>1. Prof. Leena V. Ladge conducted session in STTP on Internet of Things, at Terna Engineering College, Nerul on Jan 02, 2020.</p> <p>2. Prof. Lakshmisudha has Conducted Webinar on "How to measure attainment of Program Outcome (PO) and Course Outcome (CO) from NAAC perspective" on May 15, 2020 for faculty and principals of SIES Nerul and Sion college.</p> <p>2018-19:</p> <p>1. Dr. Vijay Katkar and Prof. Varsha patil conducted session as a subject Expert Speaker for FDP on "Deep Learning using Python" from 19/12/2018 to 21/12/2018 at S. N. Patel Institute of Technology, Umrakh Bardoli, and Gujarat (19th -21st Dec. 2018)</p> <p>3. Prof. Leena Ladge has conducted orientation for IT faculty for the subject MEP &amp; IOT mini project Lab at VIT, Mumbai on July 05, 2018.</p> <p>4. Prof. Lakshmisudha was also Resource person for one day on November 15 for AICTE-ISTE approved 6 days workshops on 'Computer Network and Security' organized by Department of IT from November 15-22, 2018 at SIESGST, Nerul.</p> <p>5. Prof. Lakshmisudha was Guest speaker for faculty orientation program for the revised syllabus 2016 SE IT CBCGS organized By Terna Engineering College.</p>
Industry labs	Nil	Nil	Industry lab is not available in the academic year 2018-19 and 2019-20.

Goal 4	To strengthen alumni engagement and enhance the student experience
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S.No	Strategic Objectives	2018-19	2019-20	Remarks
4.1	No. of students enroll for Certification/Diploma courses	41	62	In 2018-19, 13 students enrolled for Machine learning with R and 28 for Machine learning with Python. In 2019-20, 20 students enrolled for Skill development, 31 enrolled for Data mining and analytics and 11 for CCNA
4.2	Facilities for recreation, and sports on campus	Provided	Provided	Provided at college level.
4.3	No. of student participation in extracurricular activities	15	10	Students participated in National Level project competition,SIH, SPIT Hackathon Avishkar Convention etc.
	No of program organized by the institute	Inter department events-4	Inter department events-4	2019-20:IETE Students' Forum of SIES Graduate School of Technology has organized "TECHXTER 9.0", "Tech Entrepreneurship Talk", Boot Camp on Design Thinking and Data Science, "Ideation 19-Dream for a cause" 2018-19::IETE Students' Forum of SIES Graduate School of Technology has organized Mind spark, PROJEXIONS',Techxter 8.0, a National Level Technical Paper Presentation, Ideation, BOOT CAMP.
	No of award/ medals won by students	1	2	Students won prize in SIH, National level paper presentation, SPIT Hackathon etc.

4.4	No of activities undertaken	10	6	Various activities like expert talks, workshops are undertaken to strengthen alumni engagement and enhance the student experience.
	Awards and Recognition to students	1.	2	<p>1. Rishikesh shinde of TE IT Won cash prize of 50,000 in Smart India Hackathon software Edition in March 2019.</p> <p>2. Nithya Kannan, Avantika pawar, Rahul Ganesh Selvam Won cash prize at National Level Technical Poster Competition, at Saraswati College of Engineering, Kharghar. March 2020.</p> <p>3. Rishikesh Shinde, Akhil Nair, Sunil Poojari, Kush Shah of BE IT won cash prize of 12000 at SPIT Hackathon, Andheri in Feb 2020.</p>
4.5	Percentage of student placed	57%	55%	43 students placed out of 76 through campus in 2018-19 and 42 placed out of 76 in 2019-20
	Maximum salary	Rs. 5.5 LPA	Rs. 7 LPA	Continuum offered 5.5 LPA in 2018-19 and Paysense offered 7 LPA in 2019-20
	Median Salary	Rs. 3.5 LPA	Rs. 3.5 LPA	
	No of skill development schemes to improve placement	2	3	To make students Industry ready, Student development Programs conducted on various advance technologies such as Machine learning in R and Python, CCNA certification, Skill development and Data mining and analytics



4.6	No of students pursuing higher studies	10	9	10 students got admission for higher studies in 2018-19 and 9 in 2019-20
	Initiatives taken to assist students for higher studies	Conducted higher studies awareness seminar for final year students and conducted GATE coaching classes	--	Department faculty members Conducted higher studies awareness seminar for final year students and conducted GATE coaching classes for GATE appearing students
4.7	Mentor Mentee interactions	Conducted Regularly	Conducted Regularly	Every assigned mentor interacts with the mentee at least once in a month to know the status of students activities, and to discuss their problems.
4.8	Online student portal for academic and non-academic activities	Developed by students known as Portal Companion	Also made Alumni registration Portal	Implemented at college level
4.9	Professional Counseling and emergency medical service to the students on campus	Provided	Provided	Professional counsellor is available in the campus to counsel students. Also provides emergency medical services
4.10	Promote alumni networking with students	Conducted Regularly	Conducted Regularly	Alumni interaction was conducted for students on 4th January 2019. Alumni interaction was conducted for students on 6th January 2020.

Alumni association and measures to enhance members	Alumni association exists and following are the measures taken:	Alumni association exists and following are the measures taken:	Following Alumni are involved in Department Advisory Board for Academic year 2018-19 and 2019-20. Mr. Vinay Vishwanath (VP, Lab Systems, Mumbai, 2011 batch) Mr. Karan Kapoor, (Business Development Associate, Autonxt Automation 2015 Batch)
Alumni contribution	Alumni contribution as training, interaction, judging, monetary, etc.	Alumni contribution as training, interaction, judging, monetary, etc.	Alumni Ritu desai and Subramni were judges for event Ideation in March 2019. Expert talk is conducted by many Alumni for academic Year 2018-19 and 2019-20

#### Goal 5

To enhance contribution towards society and the environment

S.No	Strategic Objectives	2018-19	2019-20	Remarks
5.1	Number of students opting for the elective courses that address gender bias, environment and sustainability issues	NIL	03	In 2018-19 no subject courses that address gender bias, environment and sustainability issues have been selected In 2019-20 year, BE students have selected environment management as elective subject that address environment and sustainability issues
5.2	Number of projects relevant to society to provide solutions	3	2	In 2018-19 three projects were developed to provide solutions to society. In 2019-20 two projects were developed to provide solutions to society.

5.3	Number of green campus initiatives & waste management.	Data available centrally through office for Institutional implementation	Data available centrally through office for Institutional implementation	Implemented at college level.
5.4	Number social initiatives contributing towards local community			
5.5	Measures to improve waste disposal and e-waste collection			

<b>Goal 6</b>	<b>To initiate new courses at UG and PG level</b>
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S.No	Strategic Objectives	2018-19	2019-20	Remarks
6.1	Complete accreditation process	NAAC Accreditation Process completed with B++	NBA Accreditation to be completed	In process.



Goal 7	To formulate development plans to improve the overall quality of the Institute
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S.No	Strategic Objectives	2018-19	2019-20	Remarks
7.1	Participate in NIRF, ARIIA, MHRD	Participated	Participated	Participating since 2018 in Nirf.
7.2	<b>IQAC Meetings</b>	Available through IQA Cell	Available through IQA Cell	At college level.
7.3	Add / Update the organizational standard operating processes	Available through IQA Cell	Available through IQA Cell	At college level.
7.4	Internal and External audits	External Audit-1 Internal Audits-2	External Audit-1	<p>1. External Audit conducted by Dr. Sachin Bojewar, Professor, Department of Information Technology, Vidyalankar Institute of Technology, on 17/6/2019 for the Academic year 2018-19.  <a href="https://drive.google.com/file/d/1n2UBVzj8fOYG0je9LARSII3drsHpN10E/view?usp=sharing">https://drive.google.com/file/d/1n2UBVzj8fOYG0je9LARSII3drsHpN10E/view?usp=sharing</a></p> <p>2. External Audit conducted by Dr. Sachin Bojewar, Professor, Department of Information Technology, Vidyalankar Institute of Technology, on 21/11/2019 for SH 2019.  <a href="https://drive.google.com/file/d/1PCFQdZOBAokipTT-236tyYIA_SFHTg_O/view?usp=sharing">https://drive.google.com/file/d/1PCFQdZOBAokipTT-236tyYIA_SFHTg_O/view?usp=sharing</a></p> <p>3. Internal Audit was conducted on 4/7/2019 and 1/12/2018 for the Academic year 2018-19.</p>

7.5	Participation of staff in training programmes	19	57	Faculty have attended various seminars, STTPs and workshops. During 2019-20 faculty also attended online training programs.
7.6	Organization of STTPs/ FDPs/ training within Institute	4	2	2019-20: One-week STTP organized by the department on "DevOps and R Programming", organized an Orientation Program on "DevOps Lab" on 4th Jan 2020 at SIES GST, 2018-19: 1. Faculty Development Program was conducted on "Virtualization Overview- VmwareVosphere 6.x" on August 14, 2018 by Mr. Imran Motani from Anunta Technology Management Services Ltd, Mumbai. 2. Organized one week AICTE-ISTE approved Self-Financed Short term training program on "Computer Networks and Security" from 15/11/2018 to 22/11/2018. 3. A Seminar on "Healthy Minds" was organized on 18 February 2019. Mr. Shriram Atri. 4. Faculty Development Program on "GEOInformatics and Related Open Source" was conducted on Jan10-Jan 12,2019.
7.7	Strengthening library & Increasing learning resources	Library procured 1600+ books, subscribed e-journals, e-books and print journals to support teaching, learning and research activities.	Library procured 1627 books, subscribed e-journals, e-books and print journals to support teaching, learning and research activities.	Books included text, reference, competitive exam and general reading. E-journal packages subscribed IEEE-ASPP, Science Direct, ASME & J-Gate plus and DELNET World e-books Library.

				Additional book racks and new journal racks procured to make space for ever increasing resources as well as strengthening library infrastructure during 2018-19
7.8	Maintenance of Infrastructure	Yes	Yes	Maintained at college level
7.9	Regular updation of new lab equipment	Yes	Yes	We update the lab equipment as per the requirement.
7.10	Development of new infrastructure	No	No	No New Infrastructure is developed in 2018-19 and 2019-20.
7.11	No of faculty acquiring PhD	1	1	Ms. K.Lakshmisudha has completed Ph.D.
7.12	Awards and Recognitions to Institute	Nil	Nil	At college level.
7.13	Awards and Recognition to faculty	Nil	Nil	At college level.
7.14	Stakeholder feedback mechanism	Yes	Yes	Feedback taken from stakeholders at college level. Also feedback taken from the stakeholders in DAB meetings. Since Online lectures conducted in FH 2020, feedback has taken at department level related to online teaching.
7.15	Green Initiatives taken & Policies for same	Yes	Yes	Implemented at college level. At department level online journal submissions are implemented to reduce usage of the paper.