



## Yearly Status Report - 2018-2019

### Part A

#### Data of the Institution

<b>1. Name of the Institution</b>		SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY
Name of the head of the Institution		M SARAVANAN
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		04512448800
Mobile no.		7373707003
Registered Email		ssmietdgl@gmail.com
Alternate Email		principalssmiet@gmail.com
Address		Dindigul-Palani High Way
City/Town		Dindigul
State/UT		Tamil Nadu
Pincode		624002

<b>2. Institutional Status</b>	
Affiliated / Constituent	<b>Affiliated</b>
Type of Institution	<b>Co-education</b>
Location	<b>Rural</b>
Financial Status	<b>private</b>
Name of the IQAC co-ordinator/Director	<b>Dr .V. Shunmughavel</b>
Phone no/Alternate Phone no.	<b>04512448800</b>
Mobile no.	<b>9942324313</b>
Registered Email	<b>ssmietdgl@gmail.com</b>
Alternate Email	<b>hodcsessmiet@gmail.com</b>

<b>3. Website Address</b>	
Web-link of the AQAR: (Previous Academic Year)	<a href="http://www.ssmiet.ac.in">http://www.ssmiet.ac.in</a>
<b>4. Whether Academic Calendar prepared during the year</b>	<b>Yes</b>
if yes,whether it is uploaded in the institutional website: Weblink :	<a href="http://ssmiet.ac.in/academic-calendar/">http://ssmiet.ac.in/academic-calendar/</a>

<b>5. Accrediation Details</b>					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
<b>1</b>	<b>B++</b>	<b>2.87</b>	<b>2019</b>	<b>08-Feb-2019</b>	<b>08-Feb-2024</b>

<b>6. Date of Establishment of IQAC</b>	<b>12-Oct-2017</b>
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<b>7. Internal Quality Assurance System</b>		
Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
<b>Implementing Outcome based Education and NBA Accreditation</b>	<b>23-May-2019 3</b>	<b>20</b>

STTP through ICT Mode on	22-Apr-2019 5	25
Meeting for Student Quality circle members	16-Oct-2018 1	35
Motivational Speech on	11-Sep-2019 1	100

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

Institution/Department/ Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Department of ECE	Seminar Grant	CSIR	2019 2	30000

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

Yes

Upload latest notification of formation of IQAC

[View Link](#)

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

1

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website

Yes

Upload the minutes of meeting and action taken report

[View Uploaded File](#)

**11. Whether IQAC received funding from any of the funding agency to support its activities during the year?**

No

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

Organized and conducted ICT mode STTP NBA Accreditation

Established Student Quality Circle

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

Plan of Action	Achievements/Outcomes
To improve the communication skills for the present First Year students	Communication skill is improved.
Planned to conduct more number of Value added courses	The technical knowledge of the students is enhanced.
Internal Test Evaluation Answer scripts can be exchanged among the Faculty members for evaluation	Uniformity and quality in evaluation is maintained
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<b>14. Whether AQAR was placed before statutory body ?</b>	No
<b>15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?</b>	Yes
Date of Visit	21-Dec-2018
<b>16. Whether institutional data submitted to AISHE:</b>	Yes
Year of Submission	2019
Date of Submission	10-Jan-2019
<b>17. Does the Institution have Management Information System ?</b>	Yes
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	<p><b>ERP FUNCTIONALITIES</b> Planning and Development It is considered as web base of the ERP Software. It should be in the control of ERP Administrator. He has to do the yearly settings like creation of new academic year / semesters / departments / courses / classes / timetable and moving the classes to higher forms. User name creation and rights allocations / locking the rights are done here. Faculty has to do their lesson plan / course material / assessment entry for their class. Students can login to the portal and they can view their information like attendance / course material / leave details.</p> <p>Administration Finance and Accounts It is a highly structured reliable Fee Collection (Billing) module of the ERP Software. The college authorities can create their own fee heads sub heads</p>

like Term Fee, Book Fee, Uniform Fee, Hostel Fee, etc and add demand for individual / class / total students in a single click. Fixing last date for payment and collecting overdue amount from defaulters, giving concession to the deserved pupils are given in the respective screens with necessary permission so that perfect and orderly maintenance of the cash flow are ensured. It is to record the Teaching, NonTeaching, Admin SubStaff details that leads to Payroll through biometric integration. You can find the details of existing, resigned, long absentees staff at any time. Mainly this focuses on the academic staff and their performance. Student Admission and Support It is the only single point entry of student records in the entire ERP. Application Cost, fixing the Course Fee, Course Enquiry, Sale of Application and Admitting the students and synchronizing the fee structure, discontinue, request for TC and refund of course fee, rejoining / transfer enrolment, assigning the Roll Number and Register Number to all students, express TC CC generation for all outgoing students are done here by the administrators. Examination Since we are affiliated to Anna University, Chennai., we had the COE portal to enter our student course registration, Attendance and internal mark assessment entry, Elective courses registration. Regular and arrear subjects registration, Exam Time Table preparations, Gally Report Generation, Hall Arrangements, Numbering the Tables, Exam Attendance, Packing, Dummy Number Generation, Assessment Entry, Exam Results Mark entry, Verification, Moderation.

## Part B

### **CRITERION I – CURRICULAR ASPECTS**

#### **1.1 – Curriculum Planning and Implementation**

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

Response: The Institution adopts the curriculum provided by the Anna University, Chennai. To impart quality education, Academic planning committee develops an academic calendar based on the academic schedule of Anna University, so as to implement the curriculum effectively. Action plans for effective curriculum implementation: Subject allocation is done by the Head of

the department based on the faculty members' specialization and willingness. Appointment of coordinators for first year students, class in-charges, and mentors for effective monitoring of the academics are carried out for every academic year. Preparation of lecture plan and time table for every semester is done by the subject handling faculty and time table in charges of every department in the prescribed format. Classroom teaching by giving lectures with discussions, chalk & talk method, PPTs, seminars, videos, NPTEL course materials etc., are adopted to ensure better understanding of the concept by the students. Unit Tests, Internal Tests and Model Exams will be conducted as per the academic calendar, followed by result analysis. Based on the result analysis, corrective measures like special classes and coaching classes for the slow learners are conducted. Result for the individual faculty is analyzed and corrective measures are taken. Class Committee Meetings are conducted for addressing the academic and general grievances of students and the records are maintained for future reference. Conducting tutorial hours for analytical subjects so as to ease the difficulty in learning. Conducting Bridge course for the First Year students that ensures smooth transition from school environment to college environment. Arranging Guest lectures relevant to their current courses so as to motivate the students to do innovative projects. Arranging In-plant training for the students to have industry institute interaction so as to enhance their technical skills. Conducting software training and Value added courses for the students to bridge the academia and industrial gap. Motivating student teams to participate in conferences, symposia, workshops, paper presentations held in other institutions to enhance their exposure or knowledge base. Conducting tech-club activities like seminars quiz and group discussion for the students during the last 2 hours on Saturdays to improve their career skills. Keeping the parents informed about the attendance shortage of their wards through SMS/letters. Intimating the parents about the academic performance of their ward in Internal Assessments Test and Model Exam by sending SMS/letters. Conducting Parent-Teachers Meeting every year so as to get the feedback from parents to improve the academic performance of their wards. As part of placement training programme, analytical and aptitude training programs/classes are conducted every academic year. Conducting mock on-line aptitude and mock interviews for the final year students who aspire for placements. Arranging both on-campus and off-campus placement in Core companies and IT companies for the Final Year students as a part of placement programme.

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

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
NIL	NIL	31/12/2019	0	NIL	NIL

### 1.2 – Academic Flexibility

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

Programme/Course	Programme Specialization	Dates of Introduction
BE	NIL	31/12/2019
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#### 1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	Automobile Engineering	27/06/2018
BE	Civil Engineering	27/06/2018

BE	Computer Science and Engineering	27/06/2018
BE	Electrical and Electronics Engineering	27/06/2018
BE	Electronics and Communication Engineering	27/06/2018
BE	Mechanical Engineering	27/06/2018
ME	Communication Systems	27/06/2018
ME	Thermal Engineering	27/06/2018

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

	Certificate	Diploma Course
Number of Students	0	0

## 1.3 – Curriculum Enrichment

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

Value Added Courses	Date of Introduction	Number of Students Enrolled
Revit Architecture	11/02/2019	30
Staad.Pro	16/08/2018	65
Revit Architecture	18/07/2018	45
Arduino Workshop	02/01/2019	35
Project for Beginners	17/12/2018	35
Programming on C	18/02/2019	60
Industrial Product Design and Development using "CATIA" Software	10/10/2018	13
Solving Problems using Python Programming	06/08/2018	35
Industrial Automation	28/01/2019	25
Career guidance and opportunities in Mechanical Engineering	31/07/2018	13

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

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	Automobile Engineering	40
BE	Civil Engineering	113
BE	Computer Science Engineering	82
BE	Electrical and Electronics Engineering	62
BE	Electronics and Communication Engineering	241
BE	Mechanical Engineering	252

## 1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	No
Parents	Yes

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

### Feedback Obtained

Feedback about curriculum from all the stakeholders are collected manually using standard templates. These feedbacks are obtained through various interactions and meetings with the stakeholders. Some of the examples for such type of feedbacks are: Parents' feedback is collected when they visit the college during parent's meeting. Students' feedback is collected through counsellors meeting and Class committee Meetings. Alumni feedback through their visits to college for Mock Interviews, Guest Lectures etc. Employer feedback through their visits to college for the campus interviews. The above collected feedbacks will be posted during the Principal meeting held with department heads in every academic year. They will discuss about the feedback obtained from various stakeholders and according to that they will suggest to conduct value added courses for the individual department to bridge the academia and industrial gap.

## CRITERION II – TEACHING- LEARNING AND EVALUATION

### 2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
ME	Communication Engineering	24	6	6
BE	Mechanical Engineering	120	76	76
BE	Electronics and Communications Engineering	120	83	83
BE	Computer Science Engineering	60	52	52
BE	Automobile Engineering	60	22	22
BE	Civil Engineering	120	34	34
BE	Electrical and Electronics Engineering	60	36	36



ME	Thermal Engineering	24	2	2
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## 2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	303	8	128	6	4

## 2.3 – Teaching - Learning Process

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

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
138	138	5	52	2	4

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

[View File of E-resources and techniques used](#)

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

The student-centric method, by its very nature, allows students to shape their learning paths and places upon them the responsibility to actively participate in making their educational process a meaningful one. Some of the student-centric methods followed in our institution are as follows:

- Students are encouraged to do mini projects through which they can apply the engineering concepts practically and understand their learning of these concepts in a better way.
- Students are updated with the models and case studies for a better understanding of the theoretical subjects. For example, the kinematics of machinery of the Mechanical Engineering course is enhanced with building block models for explaining the four-bar mechanisms and their inversions. Similarly, the Engineering graphics subject is handled with models. The Automobile engineering subject is explained with the prototype model of the IC engine.
- Students are appointed as members of their respective department associations through which they can arrange and participate in various programs like project expos and technical events.
- Every classroom is equipped with an overhead projector so that effective communication takes place in the form of presentation and animated videos.
- Invited talks by experts from academics and industries are arranged periodically so that students can get enough inputs from the industry experts to prepare themselves to meet the expectations of the industry.
- Field trips and industrial visits are arranged for the students to enhance their industrial exposure.
- Students are encouraged to publish papers in International and National Conferences and participate in Symposiums to improve their ability to share their subject knowledge with confidence. Our faculty members use innovative ideas to attract the attention of students and make learning an interesting activity so that learning stays longer in the minds of the students. Being brought up in an era of Information and Communication Technologies (ICT), computers and other electronic gadgets like projectors are used by our faculty members.
- Powerpoint and video presentations are used by faculty members to explain the concepts and technologies for an easy understanding of the principles and concepts.
- Mobile applications are also used to distribute the assignments and question banks.
- Interactive classes are encouraged to improve the students' creativity and also for a clear understanding of the subject.
- Field trips, one-day industrial visits related to the particular subject are arranged by that subject handling faculty members to provide an easy and practical explanation.
- Faculty members and students are encouraged to attend MOOC courses like NPTEL, SWAYAM through which they can learn the supplementary courses and stay updated.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
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1518

138

1:11

**2.4 – Teacher Profile and Quality**

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

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
116	138	0	10	24

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

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	NIL	Assistant Professor	NIL
2018	NIL	Professor	NIL

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**2.5 – Evaluation Process and Reforms**

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
ME	414	2,4 / I, II	22/04/2019	24/06/2019
BE	105	2,4,8 / II, III, IV	22/04/2019	24/06/2019
BE	104	2,4,8 / II, III, IV	22/04/2019	24/06/2019
BE	102	2,4,8 / II, III, IV	22/04/2019	24/06/2019
BE	103	2,4,8 / II, III, IV	22/04/2019	24/06/2019
BE	106	2,4,8 / II, III, IV	22/04/2019	24/06/2019
BE	114	2,4,8 / II, III, IV	22/04/2019	24/06/2019
ME	403	2,4/I, II	22/04/2019	24/06/2019

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

For evaluating a student's performance faculty member of a particular subject will apportion marks based on the Internal Tests (IT) and Model Exam (ME) and if any student appeals for an improvement test, at least one more test of the following kinds: unit test, improvement test, home assignments, periodical quiz programs, laboratory work, seminar or any other assignment that the instructor considers necessary for assessing the student's performance - may be conducted. In such cases, the question papers are scrutinized by the Head of the

Department. • Like this, each subject is assessed internally by conducting at least 3 internal tests periodically covering a part of the syllabus as mentioned in the academic calendar. However, six tests - three internal tests, two unit tests, and one model test are planned and conducted as per the academic calendar. In this, internal tests are conducted at the institution level whereas unit tests are conducted at the department level. • The answer sheet evaluation is done by interchanging with the staff handling the same subjects. The evaluated mark sheets are distributed to the students for their perusal and it is collected back and retained by the faculty members. These marks are entered in the provided format and the result analysis is done and submitted to the Head of the Department. Then the performance is analyzed. The record of such distribution for each course will be maintained in the course file. • The Head of the concerned department will convene a meeting of the faculty within 4 working days of the last examination in the department to review the results. The scrutinized copy of the results will be handed over to a particular faculty member who will use it to complete the University web portal entry for the internal assessment marks of the students. • Regarding the attendance of the students in the class, students should maintain a minimum of 75 of their attendance without fail as per the University norms. Attendance is taken during all the hours by the faculty member handling the particular session and entered in the faculty record. After the completion of the hour, the attendance is entered in the class logbook and also in the ERP software available in the college. Faculty record is duly verified and signed by the head of the department. • The daily attendance detail of the students is messaged to their respective parent's mobile number immediately after the first hour of the class. Hence, parents are made aware of their ward's attendance then and there. • Students should get prior permission for their leave from the HoD through their mentor and class in-charge and the student leave form will be available with the mentors. Students taking leave on any medical grounds should inform their mentor immediately through their parents and when they return to the classes they must produce the medical fitness certificate to the mentor. • The attendance is maintained by the respective subject handling faculty and the details are entered in the

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

• The institution has a planning committee that prepares the academic calendar of the Institution well before the commencement of classes, based on the academic schedule prescribed by Anna University and ensures that there is a sufficient number of working days to cover the syllabus and to carry out the evaluation process. • The academic calendar is prepared before the commencement of the forthcoming semester based on the discussions in the HOD's meeting conducted by the Principal. • In the academic calendar, the schedule for all the activities is mentioned and hence it is easy to adhere to the academic calendar by all the stakeholders. The activities mentioned in the academic calendar include the semester commencement day, working days, holidays, test days, and the days of course material submission, class committee meeting, department staff meeting, remedial action work, parents meeting, tentative date of university practical and theory exams and last working day of the semester. • The number of working days per semester is maintained on the higher side than that of the number of working days prescribed by Anna University to include the conduct of model examinations for the lab courses. • The finalized academic calendar is displayed on the notice boards of the departments as well as in individual classrooms. • Any changes in the academic calendar due to the sudden developments are communicated to the students through circulars. • Based on the academic calendar all the faculty members have to prepare their lesson plan, topics to be handled, unit wise completion based on the internal exam dates. Hence, faculty members must strictly adhere to the academic calendar and if

there be any deviation proper alternate arrangements are to be done and it should also be mentioned in the class logbook. To have a transparent system for examination related grievances, internal and model examinations are conducted by the college exam cell. The exams are conducted based on the academic calendar schedule.

## 2.6 – Student Performance and Learning Outcomes

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

<http://ssmiet.ac.in/peo-po-pso/>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
403	ME	Communication Engineering	1	1	100
106	BE	Electronics and Communication Engineering	103	84	81.55
104	BE	Computer Science Engineering	49	39	79.59
102	BE	Automobile Engineering	38	14	36.84
103	BE	Civil Engineering	115	68	59.13
105	BE	Electrical and Electronics Engineering	64	54	84.38
114	BE	Mechanical Engineering	130	105	80.77
414	ME	Thermal Engineering	2	2	100

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## 2.7 – Student Satisfaction Survey

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

<http://ssmiet.ac.in/criteria-2-2/>

## CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 – Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding	Total grant	Amount received
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		agency	sanctioned	during the year
Students Research Projects (Other than compulsory by the University)	120	TNSCST	0.15	0.15
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### 3.2 – Innovation Ecosystem

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

Title of workshop/seminar	Name of the Dept.	Date
One day work shop on Intellectual Property Rights and Innovations	Department of ECE	03/05/2019

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

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
NIL	NIL	NIL	31/12/2019	NIL
<a href="#">View Uploaded File</a>				

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

Incubation Center	Name	Sponsered By	Name of the Start-up	Nature of Start-up	Date of Commencement
NIL	NIL	NIL	NIL	NIL	31/12/2019
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### 3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
0	0	0

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

Name of the Department	Number of PhD's Awarded
Mechanical Engineering	2

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

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Automobile Engineering	1	0.32
International	Computer Science Engineering	2	2.71
International	Civil Engineering	7	2.02
International	Electronics Communication Engineering	33	1.05
International	Electrical and	2	0.11

	Electronics Engineering		
International	Mechanical Engineering	17	1.03
International	Science and Humanities1	8	1.43
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3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Science Humanities	5
Electrical Electronics Engineering	14
Electronics Communication Engineering	7
Computer Science Engineering	10
Civil Engineering	16
Mechanical Engineering	5
Automobile Engineering	5
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3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Rhodamine-Isonicotinic Hydrazide Analogue: A Selective Fluorescent Chemosensor for the Nanomolar Detection of Picric Acid in Aqueous Media	P. Sakthivel, K. Sekar, G. Sivaraman and S. Singaravadivel	Chemistry Select	2019	2	SSM Institute of Engineering and Technology	2
A Fluorescent Turn-On Carbazole-Rhodanine Based Sensor for Detection of Ag Ions	C. Denzil Britto, K. Sekar, K. Muthu Vengaiyan, G. Sivaraman and S. Sin	Journal of fluorescence	2019	2	SSM Institute of Engineering and Technology	2

and Application in Ag Ions Imaging in Cancer Cells	garavadvive 1					
Optimized sequencing of CNC milling toolpath segments using meta heuristic algorithms	B. Raja Chinna Karuppanan, M.Saravanan	Journal of Mechanical Science and Technology	2019	0	SSM Institute of Engineering and Technology	0
Deformation and energy absorption analysis of simple and multi cell thin walled tubes under quasi static axial crushing	I.Vimal Kannan, R.Rajkumar	International Journal of crashworthiness	2019	0	SSM Institute of Engineering and Technology	0
An improved design for cellular manufacturing system associating scheduling decisions	R.Subhaa, N.Jawahar, S.G. Ponnambalam	Indian academy of sciences, Sadhana	2019	0	SSM Institute of Engineering and Technology	0
Removal of Chromium(III) from tannery wastewater by electrochemical peroxidation process in a bench scale reactor	Selvabharathi, G., Adishkumar, S. Rajesh Banu, J.	Desalination and Water Treatment	2019	0	SSM Institute of Engineering and Technology	0
A KSOM based	S.R.Ashokkumar, G	Multimedia	2019	0	SSM Institute	0

neural network model for classifying the epilepsy using adjustable analytic wavelet transform	.MohanBabu , S.Anupal lavi	Tools and Applications (2019)			of Engineering and Technology	
Breast Cancer Detection Using Adaptable Textile Antenna Design	S.Dhamodharan , G. Mohanbabu	Journal of Medical Systems	2019	0	SSM Institute of Engineering and Technology	0
Connected Component Based Segmentation Technique for Vehicles Detection from High Resolution Satellite Images	C. Sujatha, N. M. Masoodhu Banu, S. Karthigai Lakshmi	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	2019	0	SSM Institute of Engineering and Technology	0
Hybrid Laplacian Gaussian Based Speckle Removal in SAR Image Processing	A. Glory Sujitha , P.Vaasuki , A.Amaladeepan	Journal of Medical Systems	2019	0	SSM Institute of Engineering and Technology	0

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

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Chemically diverse small molecule fluorescent chemosensors for copper	Sivaraman, M. Iniya, T. Anand, N.G. Kotla, O. Sunnapu, S. Singara vadivel,	Coord. Chem. Rev	2018	1	81	SSM Institute of Engineering and Technology



ions	A. Gulyani and D. Chellappa					
Pineapple Peel derived Carbon dots: Facile synthesis and application as "off-on" detection of Hg <sup>2+</sup> and L-Cysteine	A.A. Van darkuzhali, N. Sampath Kumar, K.R. Krishnamurthy, G. Sivaraman, B. Viswanathan and S. Singara vadivel	ACS omega	2018	2	14	SSM Institute of Engineering and Technology
Rhodamine - benzothiazole conjugate as an efficient multimodal sensor for Hg <sup>2+</sup> ions and its applications of imaging in living cells	P. Sakthivel, K. Sekar, G. Sivaraman and S. Singaravadivel	New J. Chem	2018	3	10	SSM Institute of Engineering and Technology
An adjustable grouping genetic algorithm for the design of cellular manufacturing system integrating structural and operational parameters	N.Jawahar, R.Subhaa	Journal of Manufacturing Systems	2018	4	8	SSM Institute of Engineering and Technology
Experimental and quantum chemical studies on NH <sub>2</sub> O hydrogen bonded	G Shanmugas Karthick, K Thirupugalmani, V Kannan, S Brahadeesw	Journal of Molecular Structure	2018	5	8	SSM Institute of Engineering and Technology

helical chain type Morpholini um 2-chlor o-4-nitrob enzoate: A phasematch able organic nonlinear optical material	aran					
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### 3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Semi nars/Workshops	0	95	11	14
Presented papers	50	10	0	0
Resource persons	0	0	1	1

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### 3.4 – Extension Activities

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Workshop on Dissemination of Red cross Principles	YRC	8	21
Blood Donation camp	YRC	6	140
Abdul Kalam memorial day	SSMIET/ Humane league	20	120
International Ozone day	SSMIET / Humane league	10	200
Awake mercy home	SSMIET/ Humane league	4	40
World Rotaract week and World Women's Day	Rotaract club	10	200

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#### 3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited

0	0	0	0
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3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Awareness Program	SSMIET/WOMEN DEVELOPMENT CELL	Awareness program on Legal rights of women	12	174
Awareness Program	TNSCST	Awareness on cost effective LED manufacturing Electrical hazards and safety practices	12	50
DIGI-Contest	GOVERNMENT OF INDIA, mygov.in	Indian Innovation Challenge Design Contest (IICDC) - 2019	8	24
Swachh Bharat	GOVERNMENT OF INDIA	Awareness program to the villages	0	10
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### 3.5 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
0	0	0	0
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3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
In plant Training in Javascript	INPLANT TRAINING	Appin Technology Lab	09/06/2019	09/06/2019	8
To learn mechanical engineering activities	INPLANT TRAINING	Micron industries, coimbatore	10/06/2019	16/06/2019	3

To get trained on engineering activities	INPLANT TRAINING	Southern railway central work shop, golden rock	10/06/2019	15/06/2019	23
To get trained on engineering activities	INPLANT TRAINING	Thermax ltd ap	10/06/2019	12/06/2019	1
Learnt about manufacturing process and function of supporting components	INPLANT TRAINING	Thermax limited, Andhra pradesh	10/06/2019	12/06/2019	1
Training on diesel locomotives and its parts	INPLANT TRAINING	Diesel Loco shed, Southern railway-Trichy	14/06/2019	22/06/2019	1
To learn the mechanical parts and body parts	INPLANT TRAINING	GRG MOBIS, Coimbatore	17/06/2019	22/06/2019	1
To get trained on engineering activities	INPLANT TRAINING	Southern railway workshop training centre loco works, Perambalur	17/06/2019	22/06/2019	6
To understand various activities in a power station	INPLANT TRAINING	Thermal power station Tuticorin	17/06/2019	21/06/2019	1
To learn the fault diagnosis	INPLANT TRAINING	TNSTC-Dindigul region	18/06/2019	28/06/2019	1
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3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
ELYSIUM ACADEMY PVT LTD	04/08/2018	Industrial Training and Visits, FDP, RD Guest Lectures	190

M.R.Silverline Solutions, Dindigul	03/07/2018	Project, Industrial visit, Internship inplant training	0
Amhogha Buildpro Limited, Chennai	28/01/2019	Project, Industrial visit, Internship inplant training	0
Fabulous Cement Techno Consultancy Pvt Ltd, Vijayawada	28/01/2019	Project, Industrial visit, Internship inplant training	0
Sri Sairam Engineering college, Chennai	26/11/2018	Training programmes, Faculty development program under Margadarshan Scheme of AICTE	0
PSNA college of Engineering, Dindigul	02/11/2018	Training programmes, Faculty development program under Margadarshan Scheme of AICTE	0
CLOUD SYSTEM	01/11/2018	Industrial Training and Visits, FDP, RD Guest Lectures	190
AIRMATE TECHNOLOGY	06/10/2018	Training of Students and faculty members on campus 360 application	190
Prolific systems and Technology Pvt. Ltd No. 3/84, PN palayam, Coimbatore.	15/09/2018	Internship, In plant training	0
Sarayu Engineering, Transformer manufacturer RM Nagar, Dindigul	14/09/2018	Internship, In plant training	10
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#### **CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES**

##### **4.1 – Physical Facilities**

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

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
100	112

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
------------	-------------------------

Others	Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Classrooms with Wi-Fi OR LAN	Newly Added
Classrooms with LCD facilities	Newly Added
Laboratories	Newly Added
Class rooms	Newly Added
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#### 4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
Autolib	Partially	8.1	2013

##### 4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	21589	5980193	1616	400000	23205	6380193
Reference Books	1098	441192	123	66013	1221	507205
e-Books	2050	40000	60	15000	2110	55000
Journals	107	300550	102	259178	209	559728
e-Journals	158	117420	148	13570	306	130990
CD & Video	1104	232000	60	15000	1164	247000
Library Automation	1	126250	1	73750	2	200000
Weeding (hard & soft)	10	5500	3	1050	13	6550

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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Mr.S.Dhamodharan	Signals And Systems	GOOGLE CLASSROOM	26/06/2018
Mr.S.Dhamodharan	Communication Systems	GOOGLE CLASSROOM	28/06/2018

Dr.N.Sampathkumar	ENGINEERING CHEMISTRY-I (R-2017)	E-LEARNING-SSMIET	20/06/2018
Dr.N.Sampathkumar	ENVIRONMENTAL SCIENCE ENGINEERING(R-2017)	E-LEARNING-SSMIET	08/12/2018
Ms.S.Lingeshwari	Engineering Geology(R-2017)	E-LEARNING-SSMIET	18/12/2018
Ms.S.Lingeshwari	Prefabricated Structures(R-2013)	E-LEARNING-SSMIET	18/12/2018
Mr.A.ArulGnanaprasam	Structural Dynamics and Earthquake Engineering	E-LEARNING-SSMIET	06/08/2018
Ms.S.Selvabharathi	Municipal Solid Waste Management	E-LEARNING-SSMIET	18/12/2018
Ms.S.Selvabharathi	Environmental Engineering	E-LEARNING-SSMIET	03/10/2018
Mr.M.P.Karthik	Prefabricated Structures	E-LEARNING-SSMIET	03/10/2018
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#### 4.3 – IT Infrastructure

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

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	594	0	594	0	554	14	14	110	12
Added	1	0	0	0	0	0	1	0	0
<b>Total</b>	<b>595</b>	<b>0</b>	<b>594</b>	<b>0</b>	<b>554</b>	<b>14</b>	<b>15</b>	<b>110</b>	<b>12</b>

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

110 MBPS/ GBPS
----------------

##### 4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
PROJECTOR - 2, SONY HAMDY CAM - 8 GB - 1 No, COLAR MIC WITH AUDIO MIXER - 2 Nos, LED TV - SAMSUNG - 1 No, CORDLESS MIC WITH AUDIO MIXER- 2 Nos, HIGH CLASS SOFTWARE - 60 Nos	<a href="http://ssmiet.ac.in/#1469876298680-4742_0d3b-888add82-87f4">http://ssmiet.ac.in/#1469876298680-4742_0d3b-888add82-87f4</a>

#### 4.4 – Maintenance of Campus Infrastructure

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

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities

125

130

350

371

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

**Building Maintenance:** Maintaining the College campus and buildings is the responsibility of the Work Section. This department has a very strong structure including Civil/Electrical Assistant Engineer, Senior Supervisor, qualified electricians, plumbers, welders, pump operators and skilled workers. They take care of every day needs of all departments and meet their various requests. The up-keeping of campus and buildings is carried out by experienced labour force.

**Campus keeping and Garden development:** The grounds and gardens are beautifully and aesthetically maintained by the gardeners in the college campus. Along with man power, sophisticated machines are used to keep the classrooms and corridors clean.

**Water supply and Sewage Treatment Plant:** Mineral water is supplied to all the members of the college. Uninterrupted water supply to the campus is provided round the clock throughout the year. Treated water from the sewage treatment plant is used for farming and gardening.

**Power supply, Electrical and UPS Maintenance Air Conditioners Maintenance:** Electricians under the control of Electrical Engineering Department look after the daily maintenance of electrical fittings and UPS in the campus. Supply is maintained through electricity board or captive generator sets without interruption. AC Mechanic works for the maintenance of air conditioners. Proper earth connections are provided for all electrical installations in the campus. Lightning arresters are fixed in the buildings and their earth resistance is ensured once in 6 months.

**Surveillance cameras, Fire extinguishers and Transport facilities:** In order to keep the campus secure and safe, surveillance cameras are installed at several vital locations inside the campus. Transport facilities are available for faculty, staff and students. Our college has 18 buses, one mini bus and two vans for the benefit of students and staff coming from nearby places. Different types of fire extinguishers are available and placed at appropriate locations in the campus checked periodically. Fire extinguishers are periodically inspected and refilled. Safety charts and instructions are available in appropriate places in the campus.

**Computer Maintenance:** All the computers and peripherals are covered under warranty or maintained by IT management team of the college. Critical Problems are solved by on-call basis.

<http://ssmiet.ac.in/facilities/>

## CRITERION V – STUDENT SUPPORT AND PROGRESSION

### 5.1 – Student Support

#### 5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	-	0	0
Financial Support from Other Sources			
a) National	District backward welfare scheme / SC/ST Scholarship	690	3049354
b) International	-	0	0

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



Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Remedial Coaching	30/01/2019	402	Department Faculties, SSM Institute of Engineering and Technology
Soft skill Development	24/08/2018	289	NIIT Management Training Company, Tambaram, Chennai-600045, Tamil Nadu
Career Counseling	26/04/2018	139	Bounce Academy 2/234, VISRAAM, Near Railway Crossing, Chettaiya patti, Dindigul-624302.
Personal Counseling	11/07/2018	35	Dr.S.Suguna, Sibi Hospital, NO-141, Karur main road Aathumedu, Vedasandur-624710
Bridge Courses	23/07/2018	39	Department of Mathematics, SSM Institute of Engineering Technology, Dindigul
Language laboratory	29/06/2018	55	Department of English, SSM Institute of Engineering Technology, Dindigul
Meditation and Yoga	29/09/2018	350	Department of Mechanical Automobile Engineering SSM Institute of Engineering Technology, Dindigul

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

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	Career	25	175	0	297

Development  
Program

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

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
0	0	0

## 5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
-	252	225	-	100	72

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

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2019	1	B.E	EEE	GANDHIGRAM RURAL INSTITUTE, DINDIGUL	M.TECH
2019	2	B.E	ECE	THE GANDHIGRAM RURAL INSTITUTE, GANDHIGRAM, DINDIGUL KUMARAGURU COLLEGE OF TECHNOLOGY, COIMBATORE	M.E
2019	4	B.E	CIVIL	ADILAIDE UNIVERSITY AUSTRALIA, THIYAGARAJA COLLEGE OF ENGINEERING, MADURAI, MEPCO SCHLENK ENGINEERING COLLEGE, ANNA UNIVERSITY, TIRUNELVELI	M.E

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5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
Any Other	0
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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Basketball Tournament	Zonal	115
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**5.3 – Student Participation and Activities**

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	Winner	National	1	0	92211611 6020	A.Dhamodharan
2019	Runner	National	1	0	92211610 6085	T.Stephy Praba
2019	Runner	National	1	0	92211610 6066	C.Sasireka
2019	Runner	National	1	0	92211610 6025	D.Harini
2019	Runner	National	1	0	92211610 6005	K.Asha
2019	Runner	National	1	0	92211610 2016	K.Gnana Suriya
2019	Runner	National	1	0	92211710 2034	V.Navajevevan
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5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

Student committee: The Institute encourages and motivates students to participate in various activities. Student representation is vital for the progress of any institution. Students' representation and active participation is emphasized in all organizing committees for symposia, technical quiz, paper presentations and workshops. Various academic and administrative committees that play a significant role in the overall functioning of the institution involve students' participation. The committees are listed below. • Class Committee • Anti-ragging Committee • Sports Games Committee • Public Awareness Committee • Math Club • Tamil Mandram • Cultural Committee Objective of student Committee: • Student committee is the representative body of students of the college. • The objective is to make the students participate in the development of the institute as well as in the process of developing their personality, leadership quality, organizational skills and career through interactive programs with the faculty and society. • The goal of the student committee is to provide a common platform to students to showcase their talents in co-curricular and extra-curricular activities. It is responsible for the

successful conduct of all the major technical, cultural, literary and sports activities organized in the college premises. • The student committee helps the students share ideas, interests, and concerns with the faculty. They often help raise funds for people in distress.

#### 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

No

5.4.2 – No. of enrolled Alumni:

496

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

0

5.4.4 – Meetings/activities organized by Alumni Association :

2

### CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

#### 6.1 – Institutional Vision and Leadership

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

The system is effectively decentralized for a better governance and performance. The strategic plans and major decisions related to academic and administrative tasks are thoroughly discussed in the Governing Council meeting. The decisions taken are executed by the Head of the institution. The Heads of the Departments and the faculty members ensure proper implementation of the policies given by the Governing Council. Decision making authority is well decentralized in this system. The Management gives autonomy to the Principal to execute the strategic plan in order to fulfill the Vision and Mission of the institution. Heads of the Departments are delegated with department level authority and operational autonomy but take important decisions with Principal's endorsement. Mostly, Heads of the Departments along with faculty members actively govern and administer the department. The Heads of the Departments also conduct meetings periodically and the academic activities are planned as per the academic schedule. Also, the Principal organizes regular meeting of all faculty members with Heads of the Departments periodically to review the academic related matters. All other administrative tasks are carried out under the control of Administrative officer (AO). Case Study - 1: Remedial classes for slow learners Improvement Tests and Remedial classes are conducted for those who have not performed well in the internal test as per the decision taken in the Principal - HoDs meeting conducted. The slow learners are identified by the subject handling faculty members and the remedial classes are conducted. Slow learners are given a chance to appear for a retest to improve their internal marks. Remedial Class schedule is prepared by each department for all the subjects after the conduct of every internal test. The list of slow learners is circulated to the students and displayed in the department notice board. The remedial classes are conducted for the slow learners after the regular hours and this helps in acquiring the subject knowledge and score better marks. Case Study - 2: Class Committee Meeting A class committee consists of the Head of the Department, the Class in-charge, all the subject handling faculty members and 4 to 6 student representatives of the class. The HoD shall be the Chair-person of the Committee and two senior faculty members play the role of convener and observer of the meeting. The class committee

meeting is conducted twice in a semester. The purpose of a class committee meeting is to ensure the smooth conduct of curricular, co-curricular and extra-curricular activities, to assess and monitor the academic performance of the students, to receive feedback from the faculty members regarding the syllabus coverage, class control and students attendance. To receive feedback from the students regarding the teaching-learning process, internal assessments, co-curricular, extra-curricular activities, student support services, and mentoring. The department concerned initiates necessary actions to sort out the problems discussed in the meeting.

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

Yes

## 6.2 – Strategy Development and Deployment

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

Strategy Type	Details
Curriculum Development	Curriculum is provided by the Anna University, Chennai. Academic calendar is diligently prepared to implement the curriculum effectively.
Industry Interaction / Collaboration	The primary objective of the IIIC and the Training and Placement Cell is not only to create close links between Industry and Institute by conducting interaction programs to prepare students for placement but also to enhance their application skills related to various engineering and management theories. Activities • Expert talks to enable students to imbibe the current industrial practices • Internship and factory visits • Technical Festivals / Exhibition / Student Competitions • Competency Development / Personality Development Programmes • Consultancy/ Research work to be done by the Students • Under supervision of experts from Industry Industrial Projects • In plant Training (summer winter) • Seminars • Conducting Technical Quiz Programme • HR Summits • Guidance to students to attend various project competitions.
Teaching and Learning	• Students are admitted under Management Quota (35) and TNEA single window counseling system (65). • Student-centric teaching learning process is followed. • Eminent persons from premier institutes like IIT, NIT, etc. and industry are invited to deliver guest lecturers to supplement the curriculum. • Smart class rooms help teachers utilize e-learning facilities such as NPTEL video lectures, video lectures of our members of faculty. • Students are encouraged

to use e-journals and other online facilities available in digital library. • An effective mentoring system is followed to motivate, counsel and provide psycho-social guidance and moral support to the students to upgrade their skills and overcome their personal and family problems. • Teachers' quality is improved by conducting faculty development programmes, workshops, and seminars by inviting eminent persons as guests. • Faculty members and advanced learners are encouraged to attend conferences, seminars and workshops to enhance their technical knowledge. • A transparent process is adopted in conducting three internal assessment tests and students are given a chance to verify their score after evaluation of scripts. • Slow learners are identified based upon their performance in the internal assessment tests and counseled. • Remedial classes are also arranged to improve their performance in the subsequent tests. • Class committee meetings and effective feedback mechanism help us enhance teaching-learning and evaluation processes. • Teaching learning process is monitored by organizational hierarchies such as the Principal, heads of the departments, year coordinators, class in-charges and mentors. • Average teaching experience of full time teachers has increased over the subsequent years.

Examination and Evaluation

• Student's performance in a particular subject is evaluated by the faculty member based on his / her score in the Internal Tests (IT) and Model Exam (ME) and if any student appeals for improvement, at least one more test of the following kinds: unit test, improvement test, home assignments, periodical quizzes, laboratory work, seminar or any other assignment that the instructor considers necessary for assessing the student's performance - may be conducted. In such cases the question papers are scrutinized by the Head of the Department. • Performance of the students in each subject is assessed internally by conducting atleast 3 internal tests periodically covering a part of the syllabus as mentioned in the academic calendar. However, six tests - three internal

tests, two unit tests and one model exam are planned and conducted as per the academic calendar. In this, internal tests are conducted in a centralized manner whereas unit tests are conducted at the department level.

- The answer sheet evaluation is done by the subject handling Faculty. The evaluated answer scripts are distributed to the students for their perusal, collected back with the student's signature and retained by the faculty members. These marks are entered in the provided format and the result analysis is done and submitted to the Head of the Department. Then the performance is analyzed.

**Research and Development**

- SSMIET has constituted a Research and Development Cell involving all the UG departments to encourage research activities.
- SSM Project Incubator Cell has been functioning since 18th February 2015 cultivating entrepreneurship among the students.
- 4 Research Centres duly approved by Anna University, Chennai are established.
- Faculty's research activity includes publications, paper review, and guiding students.
- The management promotes research activities by providing registration fee, TA, etc. to the faculty who participate in seminars and conferences.
- Faculty members are encouraged to participate and present papers related to their research work in national/international conferences.
- Incentives are provided to the highly meritorious faculty who win awards.
- Research projects worth 31 lakhs are under progress.
- Most of the faculty members pursue research and publish their research papers in reputed national and international journals.
- Some of our faculty received award from various Government and Non- government organizations.

**Library, ICT and Physical Infrastructure / Instrumentation**

- College has a vast land area of nearly 9 lakhs meter square.
- Well architecture buildings for departments and hostels are built on 4 lakhs meter square connected by well established roads.
- The ambiance is attractive with lush green lawns, plants and trees.
- Separate boys and girls hostels accommodate around 120 boys and 80 girls.
- The college is accessible

through road, rail and airways. The nearest junction is Dindigul and nearest airport is Madurai. • There are 49 class rooms well equipped with LCD projectors and white boards, 40 laboratories, 553 computing systems. • A 3000 capacity acoustically designed auditorium, 2 air conditioned and 2 non AC seminar halls and a 1500 capacity indoor auditorium are available to conduct programmes accommodating more students. • Infrastructural development is given priority by allocating funds every year. • All the departments have office room and rest rooms for students and staff. • Ground floor class rooms, ramps for wheel chairs are provided to meet the requirements of the physically challenged. • High speed Internet Connectivity is provided in the campus and hostels. • Modern laboratory equipments, reputed journals, rare books and digital library amply support students to undertake research activities. • Sports area includes Indoor Stadium with well furnished flooring, Gymnasium, Pavilion and Gallery. • High speed Internet Connectivity is provided in the campus and hostels. • Modern laboratory equipments, reputed journals, rare books and digital library amply support students to undertake research activities. • Sports area includes Indoor Stadium with well furnished flooring, Gymnasium, Pavilion and Gallery. • Badminton and Hand ball courts, Table Tennis Room, Sports Officer Chamber, Yoga Meditation • Room, Hockey, Football and Cricket grounds, Basket ball and Ball badminton courts are provided to groom talented sports persons. • Proper maintenance of all the available facilities is taken up by the designated personnel.

**Human Resource Management**

The recruitment and selection of staff is highly effective in terms of its rigorous adherence to the policy and procedures laid down by the College Management and it ensures transparency in terms of maintenance of files and records. The process goes as follows: • Need based assessment of manpower is prepared at the department level by HODs which are scrutinized and finalized by the Principal. • The consolidated manpower requirement is then sent to Campus Director for



approval. • An Ad hoc Selection Committee is constituted comprising normally all the Heads of the Department with the Principal as the Chairman of the committee. • The Selection Committee prepares a job specification for each position. • The Selection Committee prepares a panel of experts for each department. • Applications for various posts are invited through Advertisement in the newspapers. • Applications are sorted out and filed. • The Head of the concerned department scrutinizes the applications, short list the candidates. • The Head of the Department fixes the date of the interview in consultation with the Principal. • The interview date is informed through call letter to candidates giving sufficient time (15 Days). • The Interview committee will comprise of the HoDs, Principal and Campus Director. This panel selects candidates on the basis of merit-through written test, demo sessions followed by Personal interviews. This Committee finalizes suitable candidates. • After this, the Chairman will release an Offer of appointment indicating pay package and service rules. ORIENTATION AND TRAINING • The new incumbents are inducted to the concerned departments where they are familiarized to the people, process and practices in order to orient them towards the work culture of SSMIET. • The Management of SSMIET strongly believes that continuous up gradation of knowledge and technology is the hallmark of a teacher. To meet this need, the Institution encourages the departments to organize FDP (Faculty Development Program) for the benefit of its faculty and also lends support when the faculty wants to attend FDP in other reputed institutions. Besides FDP, research publications, too, are appreciated and given suitable weight-ages by including these components in the performance evaluation. PROMOTION Promotion policy "Promotion on the basis of performance evaluation combined with the length of experience" is the promotion policy (Faculty Up gradation Policy) of SSM Institute of Engineering and Technology. Since performance based evaluation is the

underlying principle of Promotion Policy of SSMIET, the evaluation process is designed in such a way that it is measured against objective (component) parameters such as academics, continuous learning and standards with equitable weight-ages as depicted in the evaluation format.

**TERMINATION Resignation:** A staff will be at liberty to tender his/her resignation from the services of SSMIET in-compliance with the conditions as laid down in the order of Appointment. Normally, a list will be collected from the department during Jan/Feb every year, advising the staff members to indicate whether they intend to continue in the services of the college or not for the next academic year. The staffs who express their unwillingness to continue will be discharged from duty at the end of the academic year after they complete the work, assigned to them.

**Separation:** If a staff intends to resign from the services of the college, the following conditions would apply: The employee has to request in writing well in advance of his/her intention to resign from the services at college to the Competent Authority through proper channel. The employee has to give either three months notice or pay three months salary in lieu thereof and he/she will be relieved from the services of the college, subject to the acceptance of their resignation by the Competent Authority. The employee shall not be granted any leave except casual leave during the notice period. On acceptance of resignation, the employee will be required to hand over charge as directed by the Principal which includes handing over of all official Documents, Records, Library books, Project details including funded project details, Room, Table and shelves keys before collecting the No Dues certificate from all concerned departments prior to release in a prescribed format. The employee has to fill up the Provident Fund forms before his/her release, for expeditious settlement of dues. All properties of the College should be returned in proper condition to the HOD/ PRINCIPAL for the issuance of Reliving Order. The Principal will arrange an Exit

interview with the staff after the acceptance of his/her resignation with a view to obtain a candid feedback. All staff leaving the services of the College will be issued a Service Certificate on the date of relief. The Management reserves the right to terminate the services of any employee at any time without giving prior notice and without assigning any reason thereto.

**Admission of Students**

Candidates seeking admission to the first semester of the eight semesters B.E. / B.Tech. Degree Programme: Should have passed the Higher Secondary Examinations of (102) Curriculum prescribed by the Government of Tamil Nadu with Mathematics, Physics and Chemistry as three of the four subjects of study under Part-III or any examination of any other University or authority accepted by the Syndicate of Anna University as equivalent thereto.

(i) The candidates who possess the Diploma in Engineering / Technology awarded by the State Board of Technical Education, Tamilnadu or its equivalent are eligible to apply for Lateral entry admission to the third semester of B.E. / B.Tech. (OR) (ii)The candidates who possess the Degree in Science (B.Sc.,) (1023 stream) with Mathematics as a subject at the B.Sc. Level are eligible to apply for Lateral entry admission to the third semester of B.E. / B.Tech.

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

E-governance area	Details
<p><b>Finance and Accounts</b></p>	<p>It is a highly structured reliable Fee Collection (Billing) module of the ERP Software. The college authorities can create their own fee heads sub heads like Term Fee, Book Fee, Uniform Fee, Hostel Fee, etc and add demand for individual / class / total students in a single click. Fixing last date for payment and collecting overdue amount from defaulters, giving concession to the deserved pupils are given in the respective screens with necessary permission so that perfect and orderly maintenance of the cash flow are ensured. It is to record the Teaching, Non-Teaching, and Admin Sub-Staff details that lead to Payroll through bio-metric integration. You can find the details of existing, resigned, long</p>

	absentees staff at any time. Mainly this focuses on the academic staff and their performance.
Student Admission and Support	It is the only single point entry of student records in the entire ERP. Application Cost, fixing the Course Fee, Course Enquiry, Sale of Application and Admitting the students and synchronizing the fee structure, discontinue, request for TC and refund of course fee, rejoining / transfer enrollment, assigning the Roll Number and Register Number to all students, express TC CC generation for all outgoing students are done here by the administrators.
Examination	Since we are affiliated to Anna University, Chennai., we had the COE portal to enter our student course registration, Attendance and internal mark assessment entry, Elective courses registration. Regular and arrear subjects registration, Exam Time Table preparations, Gally Report Generation, Hall Arrangements, Numbering the Tables, Exam Attendance, Packing, Dummy Number Generation, Assessment Entry, Exam Results Mark entry, Verification, Moderation.
Planning and Development	It is considered as web base of the ERP Software. It should be in the control of ERP Administrator. He has to do the yearly settings like creation of new academic year / semesters / departments / courses / classes / timetable and moving the classes to higher forms. User name creation and rights allocations / locking the rights are done here. Faculty has to do their lesson plan / course material / assessment entry for their class. Students can login to the portal and they can view their information like attendance / course material / leave details.

### 6.3 – Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2018	Dr.C.Sujatha	Seminar on "Research Challenges in	NA	400

		Terahertz Wave Technology"		
2018	Dr.S.Karthiga ilakshmi	Seminar on "Research Challenges in Terahertz Wave Technology"	NA	400
2018	Mr.A.Amala Deepan	Conference on Intelligent Speech Application for Digital Readers using Optical Character Recognition	NA	500
2018	Mrs.G.Selvabh arathi	TNSCST sponsored National level workshop on Health awareness program for Women with special focus Cancer Awareness at SSM College of Engineering and Technology	NA	500
2018	Mrs.G.Selvabh arathi	International conference on "Advances and challenges for sustainable ecosystem" at Department of Chemical Engineering, NIT Trichy, Trichy	NA	1000
2018	Mrs.G.Selvabh arathi	3rd International Conference on Alternative Fuels, Energy and Environment (ICAFEE): Future and Challenges at YiXing Bamboo International Convention Centre, YiXing, China	NA	1000
2018	Mr.T.Sivagane san	International Conference on	NA	1000

Civil Engineering in Emerging Economics - ICCEEE 2K18 On Experimental investigation on properties of concrete paver blocks with inclusion of SWARF at Malla Reddy Engineering College, Secunderabad

2018

Mr.M.P.Karthik

International Conference on Civil Engineering in Emerging Economics - ICCEEE 2K18 On Experimental investigation on properties of concrete paver blocks with inclusion of SWARF at Malla Reddy Engineering College, Secunderabad

NA

1000

2018

Mr.R.Kesavamorthy

International Conference on Civil Engineering in Emerging Economics - ICCEEE 2K18 On Experimental investigation on properties of concrete paver blocks with inclusion of SWARF at Malla Reddy Engineering College, Secunderabad

NA

1000

2018

Mrs.G.Selvabharaathi

National Conference on Recent trends in Chemical, Energy and

NA

1000

Environmental  
Engineering  
(CEEE) at SSN  
College of  
Engineering ,  
Chennai.

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

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2018	NA	Training on Stress and Time Management	23/11/2018	23/11/2018	0	15
2019	Two days TNSCST Sponsored National level workshop on "Health Awareness program for Women with special focus on Cancer Awareness"	NA	23/01/2019	24/01/2019	20	0
2019	Workshop on "STAAD Connect"	NA	08/02/2019	09/02/2019	4	0
2019	NITTR-Kolkata Sponsored STTP through ICT mode on NBA Accrediation	NA	22/04/2019	24/04/2019	12	0
2019	Implementing Outcome Based Education and NBA Accrediation	NA	23/05/2019	25/05/2019	29	0
2019	CSIR	NA			30	0

sponsored National level seminar on "Artificial Intelligence in Medical and Healthcare Applications"	13/06/2019	14/06/2019		
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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
NPTEL Course on Design for Quality, manufacturing and assembly	1	01/07/2018	31/10/2018	90
NPTEL Course on Introduction to Machine Learning	1	01/08/2018	31/10/2018	90
FDP on Outcome based pedagogic principles for Effective teaching	3	01/08/2018	30/09/2018	30
FDP on Nanotechnology in Agriculture	1	01/08/2018	30/09/2018	30
NPTEL Course on Introduction to Abstract and Linear Algebra	7	01/08/2018	31/10/2018	90
NPTEL Course on Introduction to probability and Statistics	2	01/08/2018	30/09/2018	30
NPTEL Course on Gender Justice and workplace security	4	01/08/2018	30/09/2018	30
NPTEL course on Engineering	1	01/01/2019	31/03/2019	90



Thermodynamics				
NPTEL course on English Language for Competitive Exams	1	01/01/2019	30/04/2019	120
NPTEL Course on Introduction to Internet of Things	2	01/01/2019	30/04/2019	120
<a href="#">View File</a>				

6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
0	135	0	51

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<p>Promotion and increments are given to the teaching staff based on the Performance appraisal. Medical leave, winter and summer vacation leave is provided to all teaching staff. On Duty leave is provided to attend workshops, seminars, FDP's, conferences and Anna University Exam duties for all teaching staff. Marriage leave is given to all teaching staff. Women faculty is provided with maternity leave for three months. Institution provides transport facility to all non teaching staff. Faculty members opting to stay in hostel are given accommodation with fee concession. Employees Provident Fund scheme (EPF) for the teaching staff right from the date of joining. Free medical checkup camps are organized regularly by the institution to all teaching and nonteaching staff. Insurance scheme is provided for all the</p>	<p>Increments are given to the non-teaching staff based on the Performance appraisal. Medical leave, vacation leave is provided to all non teaching staff. On Duty leave is provided to attend workshops, seminars, FDP's, conferences and Anna University Exam duties for all non-teaching staff. Marriage leave is given to all non teaching staff. Women faculty is provided with maternity leave for three months. Institution provides transport facility to all non teaching staff. Staff members opting to stay in hostel are given accommodation with fee concession. Employees Provident Fund scheme (EPF) for the non-teaching staff right from the date of joining. Free medical checkup camps are organized regularly by the institution to all nonteaching staff. Insurance scheme is provided for all the non-teaching staff. The</p>	<p>A number of students are benefitted by the scholarships provided by Government and our management. The institute provides sufficient opportunity for students' interaction to augment desirable multi-dimensional progress. Regular interaction of the students with faculty, heads of the departments and Principal is practised. Students committees and participation of students in various clubs act as an interface between the teachers and the society. Students organize various co-curricular and extra-curricular activities under the guidance of the faculty advisors. These activities help them acquire organizational skills and leadership qualities. The students are properly guided and counselled during mentor hours to overcome psychological barriers. Counselling helps in preventing incidents of ragging or harassment in</p>

teaching staff. The Institution arranges tour for the teaching staff every year. For the admissions in SSM Group of institutions, top Priority is given to the children of teaching staff of our institution. Assessment and Training programmes are conducted for the new faculty members to improve their communication skills and Teaching skills. Sponsoring/ deputing the faculty to Faculty Development Programmes organized by the University and other institutions in the region. Encouraging the faculty members to publish research papers in journals and offering incentives for the same. Sanction of on-duty leave to attend conferences / workshops outside of the institution.

Institution arranges tour for non-teaching staff every year. For the admissions in SSM Group of institutions, top Priority is given to the children of non-teaching staff of our institution. Assessment and Training programmes are conducted for the new staff members to improve their communication skills and Teaching skills.

the institution since inception. The institute has constituted Anti-Ragging committee, Grievance Redressal Cell to ensure a ragging free environment and voice their views respectively. As a result of this mechanism, the college has a pleasant atmosphere and good work culture with an inbuilt goodwill and mutual understanding among its stakeholders. Bridge courses and remedial classes help the slow learners improve their performance. Advanced learners are motivated by providing cash incentives for the department toppers. GATE coaching classes are conducted to advanced learners which will provide the man opportunity to face all the competitive examinations.

## 6.4 – Financial Management and Resource Mobilization

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

The management has regulated the purchase process that mandates the approval of top officials. Cash inflow and expenditure are monitored using Tally software and cash collected at the counter is deposited in the account every day. The books of accounts, payment vouchers, bills and bank statements maintained by the institution are verified by the senior accounts officer on daily basis. There is a concurrent audit by the team designated for verification of transactions and entries made in the books. The audit team is directed to meet the management once in a fortnight to report their audit findings. A qualified Chartered Accountant reviews the accounts/entries on quarterly basis. Suggestions/objections, if any, raised by the Chartered Accountant are discussed with the management for necessary action. Every year the accounts are further reviewed and finalized by external auditors and audited financial statements are prepared.

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

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Nil	0	NA
<a href="#">View File</a>		

6.4.3 – Total corpus fund generated

0

## 6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	No	Nil	Yes	Principal
Administrative	No	Nil	Yes	Principal

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

Mentoring at our institution enables close monitoring of the progress of the students. For every 15 students, one faculty member is allotted during a semester. The mentees are counseled by the mentors every week. Detailed background information about the students is available with the mentors and regular updates about the individual mentee ensure close monitoring of the progress made during a particular semester. Mentees innate talents are identified and their participation in co-curricular, extra-curricular activities are encouraged and monitored. Mentees progress in academics is periodically reported to the parents. • Parent - Teacher Association at our Institution conducts meeting every semester to inform parents about their child's academic performance and growth. • The collaboration of the parents and the faculty members lead to the effective implementation of the mentoring system. • Close monitoring strengthens the mentees' edge-competitiveness, competency, maturity, goal settings, clarity of thoughts and positive attitude.

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

1. Soft Skills for Professional Effectiveness 2. Effective Communication Skill Development 3. Stress and Time Management

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

• Faculty members may be encouraged to register PhD to acquire higher qualification through Research • Faculty members may be motivated to publish their research work in reputed journals • More number of Collaborative linkages with industry may be undertaken to increase no of placements • Tapping of financial resources from UGC and other funding agencies may be attempted

### 6.5.5 – Internal Quality Assurance System Details

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

### 6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2018	Motivational Speech on Student Quality circle for Professional Growth	11/09/2018	11/09/2018	11/09/2018	100
2018	Meeting	16/10/2018	16/10/2018	16/10/2018	35

	for Student Quality circle members				
2019	STTP through ICT Mode on NBA Accreditation	22/04/2019	22/04/2019	26/04/2019	29
2019	Implementing Outcome based Education and NBA Accreditation	23/05/2019	23/05/2019	25/05/2019	12
<a href="#">View File</a>					

## CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

### 7.1 – Institutional Values and Social Responsibilities

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

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Entrepreneurship Awareness Camp	18/01/2019	20/01/2019	75	75
Entrepreneurship Awareness Camp	28/01/2019	30/01/2019	75	75
Health Awareness Programme to Girls	18/08/2018	18/08/2018	550	0
Entrepreneurship Awareness Camp	11/02/2019	13/02/2019	100	50
Women's Day Celebration	09/03/2019	09/03/2019	600	500
Entrepreneurship Awareness Camp	27/08/2018	29/08/2018	80	70

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

Percentage of power requirement of the University met by the renewable energy sources
1.48

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	1500

Provision for lift	Yes	200
Braille Software/facilities	Yes	50
Rest Rooms	Yes	1500
Scribes for examination	Yes	20
Ramp/Rails	Yes	1200

#### 7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	1	1	16/03/2019	1	Scifest19	Skill Development	150
2019	1	1	23/03/2019	1	Scifies ta2019	Skill Development	200

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#### 7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Hand Book	20/07/2018	<a href="http://ssmiet.ac.in/wp-content/uploads/2017/10/Code.pdf">http://ssmiet.ac.in/wp-content/uploads/2017/10/Code.pdf</a>

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

Activity	Duration From	Duration To	Number of participants
Teachers Day	05/09/2018	05/09/2018	200
National Librarian Day	10/08/2018	10/08/2018	100
National Mathematics Day	04/02/2019	09/02/2019	170
A.P.J Abdul Kalam memorial day	27/07/2018	27/07/2018	250
International Ozone Day	16/09/2018	16/09/2018	150
Social Network-Friend or Enemy	19/03/2019	19/03/2019	1000

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

Solid waste management Waste water management E-Waste Management Rain water harvesting structures and utilization in the campus Students, staff using Bicycles Pedestrian friendly roads Plastic-free campus

## 7.2 – Best Practices

### 7.2.1 – Describe at least two institutional best practices

1. Title of the Practice: Moderate class size. (30/40) Goal To pay more attention to the individuals, help every student understand the materials, provide the help he/she needs and to make them realize his/her potential. To identify the individuals talents and flaws. To ensure proper understanding of the concepts to obtaining better grades and in turn score better CGPA. Context Students are used to guided learning at the school. In a professional set up, learning new concepts within the specific time limit here may pose the students some difficulty initially. The smaller size classes enable faculty pay more attention on individual students and help them gain core fundamental knowledge in the I year itself. Practice The affiliating body permits to accommodate 60-70 students per class. To ensure better class control and effective learning, the institution has taken up a decision to have smaller groups of 30-40 students in a class. Evidence of Success: Individuals' talents are identified and enhanced. Academic progress is assured. Number of graduates has increased. Problems Encountered Resources Required Require more faculty members and class rooms to handle additional sections.

2. Title of the practice: Skill Development for Enhancing Employability and to promote entrepreneur Ecosystem. Goal To organize value added and career guidance programs to the students to enable students acquire sound technical knowledge in their area of study To enhance quantitative aptitude of the students To provide ample practice to the students for diverse components such as presentation skills, soft skills, group discussions and one to one interviews. To take steps to transform interested students into entrepreneurs by the time they leave the institution. Context As recruiters' felt that students are technically proficient but more exposure related to communication and soft skills is prerequisite, many training programs are conducted. Besides, students are expected to possess basic skill sets like good programming ability, expertise in computer languages, to mention a few. Practice Orientation program conducted to all the students during first year makes them acquainted with engineering education. Motivational programmes are conducted to introduce various essential life skills that need to be possessed by an engineer. Inputs related to the scope and opportunities available in their field of specialization make them pursue the course with motivation. Conferences, Symposia and Workshops conducted during their stay in the campus sharpen their wit and acclimatize to latest trends in their field of study. Focused training for written and oral communication skills are conducted at regular intervals. Evidence of success Some of the students have become successful entrepreneurs. A number of our alumni have occupied coveted positions in reputed companies. Problems Encountered and Resources Required Developing communication skills among the students is a hard task. Making the students realize the importance of the training programs. Ensuring the participation of students in training programmes with commitment.

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

<http://ssmiet.ac.in/best-practices/>

## 7.3 – Institutional Distinctiveness

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

Describe/Explain the performance of the institution in one area distinctive to its vision, priority and thrust Response: The vision of the institution is "To educate and empower aspiring students to become resourceful, competent and socially responsible professionals and to be recognized as one of the premier technical institutions in the country." The educational philosophy followed in

this campus aims at producing students who could meet the challenges at the international technical job market. Our students are groomed as professionals in their field of study and are nurtured to compete with any competitor from any part of the world. The teaching community remains student friendly and laboratories are kept open beyond regular working hours to help students excel in their respective branch of study. To provide world class technical education, all the classes in the campus are furnished with LCD projectors the campus is enabled with Wi-Fi facility using which students can augment research bent of mind which is the need of the hour. To attain the status of a premier technical institution, the institution concentrates more on producing good results every semester. Teaching them professional values and ethics ensures the practice of ethical values in their profession. True to the institutional vision, all the aspiring youth of rural and semi-urban areas are transformed into workforce which is evident from the increase in the percentage of graduates annually.. Institution invites many reputed companies to the campus to select students. The goals of the institution are: Uncompromising punctuality and sincerity Excellence in educational quality Suitable placement or higher education or entrepreneurship Research and development activities Good communication skills Professional ethics and moral values Leadership qualities Sense of belongingness to the society and country Respect for fellow human beings and nature The institution takes pride in serving the society and country by providing trained human resource in the field of engineering, grooming research scholars and knowledgeable entrepreneurs, generating many innovative projects, organizing training programs and serving as a center for conducting national level on-line examinations, thus leaving no stone unturned in the process of creating a better future for the people of this part of the nation.

Provide the weblink of the institution

<http://ssmiet.ac.in/institutional-distinctiveness/>

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

Future plans of the institute are primarily aiming at scaling the intellectual environment of the Institute. This includes aiming at inducting a better quality of students, faculty and intellectual output. It is planned to motivate faculty members to complete their doctoral degrees and to continue research activities through quality publications and research projects. The Institution also plans to apply all possible funding and grant schemes from government and non-government organizations. Construction of Lift facility in the main academic building will serve all the physically challenged. Establishment of incubation cell in near future explores innovative and creative thoughts, ideas, or concepts from students, research scholars, faculty members. The institution plans to enhance outreach programmes for the members of the backward community. Strengthening the alumni network of the Institution leads to increase the placement opportunity. More number of Collaborative linkages with industry may be undertaken to increase no of Internships. The institute plans to enhance academic excellence by conducting more number of value added courses and implementing effective Learning Management System (LMS). Enhancing the social compatibility of the students is done by giving better opportunity of social interaction through Humane League activities. The Institution develops mental and physical fitness of students, faculty and staff by organizing activities such as yoga, physical exercise, meditation.