



SETHU INSTITUTE OF TECHNOLOGY

An Autonomous Institution | Affiliated to Anna University, Chennai

Pulloor – 626115, Kariapatti Taluk,

Virudhunagar District, Tamil Nadu.

INTERNAL QUALITY ASSURANCE CELL



Annual Quality Assurance Report 2019 -20

Submitted to
National Assessment and Accreditation Council
Bangalore, India



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution		SETHU INSTITUTE OF TECHNOLOGY
Name of the head of the Institution		Dr. A.SENTHIL KUMAR
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		04566308006
Mobile no.		9443564850
Registered Email		principal@sethu.ac.in
Alternate Email		principaloffice@sethu.ac.in
Address		Pulloor, Kariapatti Taluk
City/Town		Virudhunagar District
State/UT		Tamil Nadu
Pincode		626115
2. Institutional Status		

Autonomous Status (Provide date of Conformant of Autonomous Status)	17-Aug-2012
Type of Institution	Co-education
Location	Rural
Financial Status	private
Name of the IQAC co-ordinator/Director	Dr. A. MERLINE
Phone no/Alternate Phone no.	04566229707
Mobile no.	9976885282
Registered Email	naac.sit@sethu.ac.in
Alternate Email	merline@sethu.ac.in

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	https://sethu.ac.in/iqac-aqar-report/AQAR_2018-19.pdf
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4. Whether Academic Calendar prepared during the year

Yes

if yes, whether it is uploaded in the institutional website:
Weblink :

<https://sethu.ac.in/academic-calendar-2019-20/>

5. Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity	
				Period From	Period To
1	A	3.10	2016	17-Mar-2016	16-Mar-2021

6. Date of Establishment of IQAC

27-Mar-2015

7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
Achievement of Targets for 2019-2020 Fixing of	03-Aug-2020 1	5

Targets for 2020-2021		
Webinar on	14-Jul-2020 1	100
Webinar on	04-May-2020 2	230
External PEER Team Audit	06-Mar-2020 1	330
NAAC Sponsored National Level Seminar on	27-Feb-2020 2	103
IQAC Meeting 14	24-Feb-2020 1	32
Review of Achievements of targets for 2019-2020	22-Jan-2020 1	5
IQAC Meeting 13	13-Nov-2019 1	29
Academic Audit	09-Oct-2019 2	330
IQAC Meeting 12	28-Sep-2019 1	29
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8. Provide the list of Special Status conferred 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
Sethu Institute of Technology	Gold category award for Industry Institute Interaction	AICTE - CII Survey	2019 365	0
Sethu Institute of Technology	Obtained 4.5 star rating for the college Innovation Council (IIC)	IIC, MHRD	2019 183	0
Sethu Institute of Technology	Accreditation	NBA	2019 195	0
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9. Whether composition of IQAC as per latest NAAC guidelines:

Yes

Upload latest notification of formation of IQAC

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10. Number of IQAC meetings held during the year :

4

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes
Upload the minutes of meeting and action taken report	View File
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No

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

Coordinating quality assurance initiative through NBA Accreditation: Self Assessment Report Submission for CSE, ECE and EEE
Faculty Training on OBE and Examination Reforms
Coordinating the activities for National Institutional ranking
Organizing NAAC Sponsored National Level Seminar on "Revised NAAC Framework for Quality Enhancement in Higher Education Institutions"
Conducting Internal Quality Assurance Initiative Meetings for the preparation of Self Study Report for the second cycle of NAAC Accreditation

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

Plan of Action	Achivements/Outcomes
To establish 2 Research Laboratories	Scanning Electron Microscope (SEM) facility was established at SethuInstitute of Technology through funds sanctioned fromDST - FIST, New Delhi. • Centre of Excellence in Signal and Image Processing is established in the Department of ECE.
To promote more ICT Enabled learning	More classrooms were equipped with LCD Projectors. 25 new LCD projectors were purchased
To receive National Award for Innovation	MHRD-IIC one star rating for the first quarter for the Institution Innovation Council with a score of 24.99 out of 25 • Mrs.S.M.NaziaFathima, Director (R&D) and Research Scholar has received the following awards under the guidance of Dr.R.Tamilselvi, Professor and Dr.M.ParisaBeham, Associate Professor,

Department of Electronics and Communication Engineering. ? Rs 10 Lakhs under the DST-Lockheed Martin-Tata Trusts IIGP 2.0 - University Challenge 2019 for her project entitled "OsteoCheX-A handheld device to measure bone density from X-ray images" ? Rs 1 Lakh worth processor kits as a Quarterfinalist in DST & Texas Instruments organized India Innovation Challenge Design Contest, IICDC 2018 for her project titled "Low cost BMD Device" anchored by IIM, Bangalore. • A Team of EEE student won First prize in "Smart India Hackathon SIH 2019 Hardware Edition Grand Finale" at IIT, Delhi. • Selvan.N.Sivakumar, Dr.C.Mekala,Assoc.Prof./Civil for winning the first position in All India level HYUNDAI SOCIAL CREATOR AWARD 2019 among 8 finalists, held at New Delhi on 24.11.2019

Implementation of AICTE Model Curriculum

Board of Studies and Academic Council Meetings have been conducted to approve the revised curriculum as per AICTE Model curriculum and it was implemented for students admitted in 2019-2020

NBA Accreditation

Self Assessment Report of B.E. CSE, B.E. ECE and B.E. EEE were submitted in December 2019

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14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body	Meeting Date
IQAC	08-Feb-2021

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?

Yes

Date of Visit

01-Nov-2019

16. Whether institutional data submitted to AISHE:

Yes

Year of Submission

2020

Date of Submission

10-Jan-2020

17. Does the Institution have Management Information System ?	Yes
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	<p>The College Automation Software, Educational Resource Management System (ERMS), is partially implemented with the following features: 1. Admin Office can have the details of Students Admission, Faculty profile and Faculty attendance. 2. Accounts Section can have the details of Student Fee collection, Faculty pay roll generation, etc., 3. All activities related to Exam Cell (Generation of hall ticket, Mark sheet, publishing results, etc.) are carried out. 4. An exclusive mobile app has been developed for the students on Exam related announcements like date of examination, hall arrangement, Seating arrangement, etc.. 5. Details of Faculty course allocation, internal marks, student attendance etc. can be obtained. 6. All students can access their attendance, marks and the fees details in the Student Portal. 7. All Faculty members can update and access their Academic related participating programs like Seminars, workshops FDPs and their publications in Journals Conferences</p>

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Design and Development

1.1.1 – Programmes for which syllabus revision was carried out during the Academic year

Name of Programme	Programme Code	Programme Specialization	Date of Revision
BE	UME	Mechanical Engineering	21/09/2019
BE	UCS	Computer Science and Engineering	21/09/2019
BE	UEC	Electronics and Communication Engineering	21/09/2019
BE	UEE	Electrical and Electronics Engineering	21/09/2019
BTech	UIT	Information Technology	21/09/2019
BE	UCE	Civil Engineering	21/09/2019
BTech	UCH	Chemical Engineering	21/09/2019

BE	UAG	Agriculture Engineering	21/09/2019
BE	UBM	Biomedical Engineering	21/09/2019
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1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
BE	Mechanical Engineering	21/09/2019	19UME109 - Engineering Graphics	21/09/2019
BE	Computer Science and Engineering	21/09/2019	19UCS108 - Problem Solving and PYTHON programming	21/09/2019
BTech	Information Technology	27/06/2019	19UIT205 - Programming Fundamentals using Python	27/06/2019
BTech	Chemical Engineering	12/09/2019	19UMA102 - Engineering Mathematics -I	12/09/2019
BE	Agriculture Engineering	12/09/2019	15UAG702 - Dairy and Food Engineering	12/09/2019
BE	Biomedical Engineering	21/09/2019	19UBM205 - Introduction to Biomedical Engineering	21/09/2019
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1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
BE	Mechanical Engineering - Introduction to Mechanical Engineering (19UME205)	21/09/2019
BE	Computer Science and Engineering - Problem Solving and PYTHON programming (19UCS108)	21/09/2019
BE	Electronics and Communication Engineering - Introduction to Electronics and Communication Engineering (19UEC205)	21/09/2019
BE	Electrical and	21/09/2019

	Electronics Engineering - Introduction to Electrical and Electronics Engineering (19UEE205)	
BTech	Information Technology - Introduction to Information Technology (19UIT206)	27/06/2019
BE	Civil Engineering - Introduction to Civil Engineering (19UCE205)	14/09/2019
BTech	Chemical Engineering - Energy and EVS lab (19UGS210)	12/09/2019
BE	Agriculture Engineering - Object oriented Programing in Python (19UIT426)	21/09/2019
BE	Biomedical Engineering - Introduction to Biomedical Engineering (19UBM205)	21/09/2019
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	Mechanical Engineering	21/09/2019
BE	Computer Science and Engineering	21/09/2019
BE	Electronics and Communication Engineering	21/09/2019
BE	Electrical and Electronics Engineering	21/09/2019
BTech	Information Technology	21/09/2019
BE	Civil Engineering	21/09/2019
BTech	Chemical Engineering	21/09/2019
BE	Agriculture Engineering	21/09/2019
BE	Biomedical Engineering	21/09/2019
ME	CAD/CAM	21/09/2019
ME	Computer Science and Engineering	21/09/2019
ME	Communication System	21/09/2019
ME	Power Electronics and Drives	21/09/2019
ME	Structural Engineerig	21/09/2019

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
Computational Fluid Dynamics	16/09/2019	220
Robotic Process Automation	21/09/2019	189
Ethical Hacking	21/09/2019	138
Server Installation and Configuration	21/09/2019	178
Network Simulator	28/10/2020	140
Ruby On Rails	28/10/2020	174
.Net Framework	28/10/2020	140
Programming in C	25/06/2019	121
Hands on Training on Arduino	21/09/2019	130
Digital Marketing	27/06/2019	56

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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	Mechanical Engineering	663
BE	Computer Science and Engineering	611
BE	Electronics and Communication Engineering	502
BE	Electrical and Electronics Engineering	271
BTech	Information Technology	110
BE	Civil Engineering	405
BTech	Chemical Engineering	84
BE	Agriculture Engineering	140
BE	Biomedical Engineering	142

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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution?

(maximum 500 words)

Feedback Obtained

The stakeholders input is considered as one main factors in the design of curriculum and syllabi. Whenever changes are planned in the curriculum and syllabi feedback is obtained from them. The feedback on Curriculum design aspect is collected periodically from students, faculty, alumni, parents and employers. The feedback analysis is discussed in Program Assessment Committee, Department Faculty Meeting and Department Advisory Board. The Board of Studies recommends the Curriculum and Syllabi for approval by Academic Council.

Feedback from AICTE and University nominees: Feedback has also been obtained from eminent members of various committees of AICTE, NBA and Anna University. The interactions held with eminent personalities from industry and academia also help to upgrade the curricula and syllabi to meet global challenges.

Feedback from Students: The inputs from students for curriculum design is obtained through a questionnaire where the students would express their opinion for inclusion or deletion of a course. The suggestions are carefully analyzed and the necessary changes are made in the curriculum and syllabi.

Feedback from faculty members: Faculty members provide their feedback regarding the general curriculum design and development of the program, new topics to be introduced and its relevance and the obsolete topics to be deleted or modified and reasons thereof. They also provide suggestions for introduction of new courses in the curriculum.

Feedback from Alumni: Alumni feedback about the curriculum and syllabi is obtained annually. The feedback is analyzed and the changes recommended are incorporated, if necessary.

Feedback from Employers: Feedback from employers is obtained every year to assess the suitability of the curriculum for employment opportunities and to update /modify the curriculum as per the need of the industries.

Feedback from Eminent Persons: The senior faculty members from Anna University, NITs, IITs and eminent people from industries form part of the Board of Studies, Academic Council and Governing Council. The feedback, recommendations, and ideas are obtained from these eminent personalities and given due importance for incorporation into the revised curriculum and syllabi.

Feedback from Parents: Feedback is obtained from parents for the updation of curriculum and syllabi.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BE	Biomedical Engineering	60	100	60
BE	Agriculture Engineering	60	110	65
BTech	Chemical Engineering	60	90	46
BE	Civil Engineering	120	112	92
BTech	Information Technology	60	114	60
BE	Electrical and Electronics Engineering	120	125	107
BE	Electronics	180	196	180

	and Communication Engineering			
BE	Computer Science and Engineering	180	225	181
BE	Mechanical Engineering	240	256	219
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2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	4340	101	315	Nil	15

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
330	330	75	64	11	110
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2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

The College provides mentoring through the mentoring system. The mentor is a faculty member who takes care of 15 to 20 students and gives counselling and guidance to them towards their development in academic and non-academics such as sports, extracurricular, co-curricular, behavioural and psychological phenomena. A professional counsellor is also available at the campus to provide necessary guidance to the students. Slow learners are identified and counselled by the mentor and the Head of the Department on need basis. The mentors maintain a Mentor Diary for each student from the first semester, which contains the personal details of the students. The diaries are reviewed to analyse their family, financial and educational backgrounds, to identify the sort of assistance needed by them. The diary is periodically updated with Internal Assessment Test marks and University Examination performance details. The mentors periodically interact with their wards to discuss personal/academic issues. The mentors also determine the need for special counselling and recommends for counselling through the professional counsellor who visits the college periodically. Types of Mentoring: i) Course Work Specific: In Choice Based Credit system the course registration plays a vital role. The mentors help the students to keep track of their attendance and inform their parents also periodically. Parents teachers meetings are conducted periodically which facilitates the meeting of Mentors and the parents for discussing the academic progress of the students. ii) Professional Guidance: It is essential for the students to upgrade their skills to international standards through significant industry involvement. Departments take efforts for this by conducting Value added courses beyond the curriculum for developing the skills of the students. The mentors create awareness to students about these courses and guide them for enrolment. Faculty members act as mentors for NPTEL courses. Students are also encouraged to participate in National and International level contests such as Smart India Hackathon, TCS Code Vita, etc. Mentors orient the students to participate in such contests. iii) Overall Development: The College is concerned about the overall development of students and it provides ample opportunity to improve their overall personality. Mentors take special care in motivating their wards to participate in such programs/ activities and they encourage their wards to participate in co-curricular and extracurricular

activities that are conducted within the College and in other institutions. Efficacy of Mentoring System: After counselling by the Faculty Mentor and the Professional counsellor, positive changes are observed in the students. The students are motivated to study well and advised to develop regular study habits. Due to persistent mentoring, the academic performance of the students improve. The students who involve in indiscipline activities are counselled and behavioural changes are observed in few students. Students who have psychological problems and depressed are counselled by Professional Counsellor and proper support is provided to overcome their problems. They are also advised to get the help of doctors. The students who have problems in interpersonal relations among peer (male and female), parents, and teachers are counselled and the interpersonal relations also improve.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
4441	330	1:13

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
331	330	1	72	100

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
2020	Dr.P.Oliver Jayaprakash	Professor	Reviewer – ICREGT 2020
2020	Dr. R. Babhu Vignesh	Assistant Professor	Inspiring Chemistry Teacher, SRM Institute of Science and Technology, Ramapuram Campus, Chennai
2020	Ms. Elavarasi	Assistant Professor	NPTEL Translator
2020	Dr Mohamed Kader	Associate Professor	IEI Award
2020	Dr Yasodai	Associate Professor	IEI Award
2020	Dr. B.Meenakshi Sundaram	Professor	Appreciation Award from centre for EDC
2020	Dr R Tamilselvi	Professor	Texas Innovator Award
2020	Dr M Parisa beham	Professor	Texas Innovator Award
2019	Dr. S. Vijayarajan	Associate Professor	Mentor award from AICTE-ISTE Vishwakarma
2019	Dr.R.Karthik	Assistant Professor	IICDC Elite Academician Award

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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	PCD, PCS, PCM, PPE, PSE	Apr 2020	30/09/2020	15/10/2020
BTech	UIT, UCH	Apr 2020	30/09/2020	15/10/2020
BE	UME, UCS, UEC, UEE, UCE, UAG, UBM	Apr 2020	30/09/2020	15/10/2020
ME	PCD, PCS, PCM, PPE, PSE	Nov 2019	25/01/2020	14/02/2020
BTech	UIT, UCH	Nov 2019	25/01/2020	14/02/2020
BE	UME, UCS, UEC, UEE, UCE, UAG, UBM	Nov 2019	25/01/2020	14/02/2020

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2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
38	9768	0.39

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)

<https://sethu.ac.in/>

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
UBM	BE	Biomedical Engineering	43	36	83.72
UAG	BE	Agriculture Engineering	57	51	89.47
UCH	BTech	Chemical Engineering	24	19	79.17
UCE	BE	Civil Engineering	178	125	70.22
UIT	BTech	Information	47	41	87.23

		Technology			
UEE	BE	Electrical and Electronics Engineering	134	89	66.42
UEC	BE	Electronics and Communication Engineering	188	142	75.53
UCS	BE	Computer Science and Engineering	210	166	79.05
UME	BE	Mechanical Engineering	283	185	65.37
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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)

[_https://sethu.ac.in/category/student-satisfacation-survey/_](https://sethu.ac.in/category/student-satisfacation-survey/)

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Promotion of Research and Facilities

3.1.1 – The institution provides seed money to its teachers for research

Yes
Name of the teacher getting seed money
Paramasamy S
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3.1.2 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
International	Dr.R.Tamilselvi	IIGP 2.0	20/09/2019	DST
International	Dr.M.Parisa Beham	IIGP 2.0	20/09/2019	DST
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3.2 – Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year

Industry sponsored Projects	365	DST-Lockheed Martin-Tata Trusts	12.95	12.95
Major Projects	1095	DRDO	19.41	4.92
Major Projects	365	IEI RD	0.45	0.45
Industry sponsored Projects	1095	H-Social contest by Hyundai India Pvt ltd.	7.5	2.85
Major Projects	1095	DST SERB	27.34	4.3
Major Projects	1095	DST SERI	40.29	0.21
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3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

11

3.3 – Innovation Ecosystem

3.3.1 – 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
Five Days Hands On Workshop On Machine Learning Using Python	Computer Science Engineering	22/07/2019
Web Security	Computer Science Engineering	08/08/2019
“Building awareness on IPR – Copyrights in association with Institute Innovation Cell (IIC) Department of Information Technology for II year Students	Information Technology	15/10/2019
One Day National Level “Entrepreneurial Workshop on Paver Block Manufacturing” in association with Bharath Pavers, Madurai	Civil Engineering	22/01/2020
Value Added Course on “Domestic and Industrial Wiring”	Electrical and Electronics Engineering	15/10/2019
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3.3.2 – 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
Low Cost BMD	Dr R	TI DST	01/09/2019	Teacher

Meter	Tamilselvi Dr M Parisa Beham			
Fetal Stress Monitoring Device	Dr R Tamilselvi Dr M Parisa Beham	TI DST	01/09/2019	Teacher
Prosthetic Arm	Dr R Tamilselvi Dr M Parisa Beham	TI DST	01/09/2019	Teacher
Fetal Stress Monitoring Device	Dr R Tamilselvi Dr M Parisa Beham	Arambam	01/09/2019	Teacher
IoT based Smart Drum Composting with Solar Heating	Mr.N.Sivakumar (Guided by Dr.C.Mekala)	H-Social Creator Award -Hyundai	24/11/2019	Student
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3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
NIL	NIL	NIL	NIL	NIL	Nil
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3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
Mechanical Engineering	4
Computer Science Engineering	6
Electrical and Electronics Engineering	3
Electronics and Communication Engineering	5
Information Technology	1
Bio-medical Engineering	1
Science Humanities	2

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

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Mechanical Engineering	25	1.35
International	Computer Science Engineering	13	0.82
International	Electronics and Communication Engineering	15	0.70
International	Electrical and Electronics Engineering	11	0.53

International	Information Technology	6	0.63
International	Civil Engineering	27	0.15
International	Chemical Engineering	1	3.01
International	Bio-medical Engineering	3	1.08
International	Science Humanities	27	2.5
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3.4.3 – 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	12
Chemical Engineering	3
Civil Engineering	3
Information Technology	1
Electrical and Electronics Engineering	11
Computer Science and Engineering	13
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3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
A personalized health care monitoring for diabetic patient by GIS	Published	201941035692	13/09/2019
Handy sanitizer Dispenser with social distancing alert device	Filed	2019041045227	16/10/2019
A Vibration Based Hearing Aid Device	Published	201941013978	17/12/2020
Star cook an advanced IOT based variety cooking machine	Published	202041041919	27/09/2020
Low Cost Virus Free Air Circulator for PPE	Published	202041055425	20/12/2020
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3.4.5 – 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	Number of citations
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					mentioned in the publication	excluding self citation
Synthesis and characterization of CuO/ZnO /CNTs thin films on copper substrate and its photocatalytic applications	Saravanan, D., Oualid, H.A., Brahmi, Y., Ayesha mariam, A., Karuna naithy, M., Saleem, A.M., Kaviyarasu, K., Sivaranjani, S., Jayachandran, M.	OpenNano	2019	16.6	Sethu Institute of Technology	25
Recent Progress and Approaches on Carbon-Free Energy from Water Splitting	Hossain, A., Sakthipandi, K., Atique Ullah, A.K.M., Roy, S.	Nano-Micro Letters	2019	15.9	Sethu Institute of Technology	7
Solvent-free and montmorillonite K10-catalyzed domino reactions for the synthesis of pyrazoles with alkynylester as a dual synthon	Annes, S.B., Saritha, R., Subramanian, S., Shankar, B., Ramesh, S.	Green Chemistry	2020	15.2	Sethu Institute of Technology	2
Evaluation of mechanical, thermal and water absorption behaviors of Polyalthia longifolia seed reinforced	Stalin, B., Nagaprasad, N., Vignesh, V., Ravichandran, M., Rajini, N., Ismail, S.O., Mohammad, F.	Carbohydrate Polymers	2020	13.4	Sethu Institute of Technology	4

vinyl ester composites						
Speckle noise removal in SAR images using Multi-Objective PSO (MOPSO) algorithm	Sivaranjani, R., Roomi, S.M.M., Senthilarasi, M.	Applied Soft Computing Journal	2019	11.2	Sethu Institute of Technology	12
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3.4.6 – 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
Evaluation of mechanical, thermal and water absorption behaviors of Polyalthia longifolia seed reinforced vinyl ester composites	Stalin, B., Nagaprasad, N., Vignesh, V., Ravichandran, M., Rajini, N., Ismail, S.O., Mohammad, F.	Carbohydrate Polymers	2020	192	4	Sethu Institute of Technology
The synergetic effect between hydrogen addition and EGR on cashew nut shell liquid bio fuel-diesel operated engine	Loganathan, M., Thanigaivelan, V., Madhavan, V.M., Anbarasu, A., Velmurugan, A.	Fuel	2020	213	5	Sethu Institute of Technology
Investigation on the effect of diethyl ether with hydrogen-	Loganathan, M., Madhavan, V.M., Arun Balasubramanian, K.,	Fuel	2020	213	2	Sethu Institute of Technology

enriched cashew nut shell (CNS) biodiesel in direct injection (DI) diesel engine	Thanigaivelan, V., Vikneswaran, M., Anbarasu, A.					
Solvent-free and montmorillonite K10-catalyzed domino reactions for the synthesis of pyrazoles with alkynylester as a dual synthon	Annes, S.B., Saritha, R., Subramanian, S., Shankar, B., Ramesh, S.	Green Chemistry	2020	221	2	Sethu Institute of Technology
Graphene quantum dots/ZnO nanocomposite: Synthesis, characterization, mechanistic investigations of photocatalytic and antibacterial activities	Sheik Mydeen, S., Raj Kumar, R., Sivakumar, R., Sambathkumar, S., Kottaisamy, M., Vasantha, V.S.	Chemical Physics Letters	2020	235	3	Sethu Institute of Technology

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

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	4	158	Nil	Nil
Presented papers	19	11	Nil	Nil
Resource persons	3	11	2	1

[View File](#)

3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
CSE	Order Tracking for Export Business	ALAAK Agro Implex Pvt Ltd, Madurai	20000
CSE	Transport Management System	Winways Infomatics Pvt Ltd	15000
CSE	Website Development	Tycoon Resorts, Madurai	25000
ECE	Brain Tumor Detection using Image processing algorithms	Bionic Medical Systems, Chennai	40000
CIVIL	Soil Test (4 Samples)	K.Kannan, B.E, Assistant Engineer PWD/WRD, Gundar Basin Section - II, Kadaladi.	12000
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3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
NIL	NIL	NIL	0	0
No file uploaded.				

3.6 – Extension Activities

3.6.1 – 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
Awareness Programme on Road Safety	National Service Scheme	10	200
Tree Plantation -2019	National Service Scheme	150	150
Celebrating Life	Red Ribbon Club	1	110
Awareness Program on 'Ultimate Resource of Success'	Youth Red Cross	2	50
Paper Bag Workshop	ECO CLUB	9	300
Village and Household Surveys camp	Initiative Club	8	130
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3.6.2 – 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
NSS	Best NSS Units	Meenakshi Mission Hospital Madurai	500
NSS	University Level Best N.S.S. Programme Officer Award	Anna University, Chennai - 600 025	100
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3.6.3 – 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
Dengue Prevention Camp	NSS	Dengue Prevention Camp	4	400
Awareness on Food merchants Survey	NSS	Awareness on Food merchants Survey	2	50
Corna Awareness	Red Ribbon Club	Corona Awareness program	1	75
Gender Issue	Women Empowerment Cell	Self defense training program	10	350
Gender Issue	Women Empowerment Cell	Women safety and security	10	400
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3.7 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
Collaborative Research	Department of Mechanical Engineering, K. Ramakrishnan College of Engineering, Trichy, 621 112, Tamil Nadu, India	NIL	1
Collaborative Research	Department of Mechanical Engineering, VSB College of Engineering and Technical campus, Coimbatore 642109, Tamilnadu, India,	NIL	1
Collaborative Research	Department of Mechanical	NIL	1

	Engineering, College of Engineering, Al- Imam Mohammed Ibn Saud Islamic University, Riyadh 11432, Saudi Arabia,		
Collaborative Research	Department of Mechanical Engineering, Anna University, Regional Campus Madurai, Madurai, 625 019, Tamil Nadu, India	NIL	1
Collaborative Research	Department of Mechanical Engineering, Government Polytechnic College, Peelamedu, Coimbatore, 641 014, Tamil Nadu, India	NIL	1
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3.7.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Internship	Internship	Venus engineering works	02/06/2019	02/07/2019	R.AKASH RAJA
Internship	Internship	Tractor and Farm Equipment Ltd	06/06/2019	22/06/2019	SRIRAM
Internship	Internship	Hyundai glovislmt, sipcot industrial park, kanchipuram district.	24/07/2019	08/08/2019	R.MANIKANDAN
Internship	Internship	INTERNSHALA	15/05/2020	12/06/2020	MOHAMED AMANI P
Internship	Internship	JINNA STREET Kayathar	27/05/2019	01/07/2019	A. SHEIK MOHAMED ASHIF

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3.7.3 – MoUs signed with institutions of national, international importance, other institutions, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
SNP Dairy Milk, Madurai	01/10/2019	Guest Lecture ,Industrial visit, Inplant training	150
Red Hat India Pvt Ltd.	06/09/2019	Enable students to do certification courses,Provide employable skills to the students,Make the student aware of the latest technology related to open source	2
Bionic Medical Systemsvedic Hospital	26/12/2019	Research , Internship and Innovation	2
MEGH NEEL RENEWABLE POWER SYSTEMS PRIVATE LIMITED2/19, Elite Avenue, Near Sivaram Nagar,Ganapathy, Coimbatore,	13/09/2019	Guest Lecture ,Industrial visit, Inplant trainingand Recruitment,	3
JOTHI ELECTRICAL INDUSTRIESNo 2, R C Street, Pazhanganatham,Madurai - 625003,	30/08/2019	IndustrialMember of BOS in EEE. Industrial Visit, Inplant Training, Recruitment,	3

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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
1200	969

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Seminar halls with ICT facilities	Existing
Classrooms with Wi-Fi OR LAN	Existing

Classrooms with LCD facilities	Newly Added
Seminar Halls	Existing
Laboratories	Existing
Class rooms	Existing
Campus Area	Existing
No file uploaded.	

4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
MODERNLIB	Fully	LIBASOFT Modules Update Version MODERNLIB	2016

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	58759	17297432	229	131752	58988	17429184
Reference Books	1091	2134819	Nill	Nill	1091	2134819
e-Books	300	30000	Nill	Nill	300	30000
Journals	90	174005	Nill	Nill	90	174005
e-Journals	Nill	Nill	488	1424929	488	1424929
Digital Database	1	13570	Nill	Nill	1	13570
CD & Video	300	30000	Nill	Nill	300	30000
Library Automation	1	36300	Nill	Nill	1	36300
Others(s pecify)	890	197457	Nill	Nill	890	197457
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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
Dr C Muthusamy	Laws of Thermodynamics	Youtube	17/09/2019
A Perumal	Welding process	Youtube	17/09/2019
Dr.K.A.Shahul Hameed	Need For Modulation in Communication	Youtube	20/01/2020

	Systems		
Mr.J.Kumaresan	Power Electronics - Single Phase Fully controlled Rectifier	Youtube	06/12/2019
R Kathirvel	Bearing Manufacturing	Youtube	17/09/2019
M.Poomani @ Punitha	Simplification of Boolean Function using K Map	Youtube	30/01/2020
S.Syed Abdul Haq	Smart Grid	Youtube	06/12/2019
P Deepa	Sequene detector	Youtube	27/06/2020
Dr.Vasuki Mercy	Satellite Orbital Parameters	Youtube	22/11/2019
Dr. C.YesubaiRubavathi	Dijkstas Algorithm	Youtube	08/02/2020
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4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Co mputers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departme nts	Available Bandwid th (MBPS/ GBPS)	Others
Existin g	1360	0	340	0	120	36	1185	340	19
Added	180	0	160	0	0	0	180	160	0
Total	1540	0	500	0	120	36	1365	500	19

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

500 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
SIT Media Centre	http://www.youtube.com/user/sethimedia/ videos
Screen o Matic Software	http://www.youtube.com/user/sethimedia/ videos

4.4 – Maintenance of Campus Infrastructure

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

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurredon maintenance of physical facilities
235	235.62	275	270.5

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)

MAINTENANCE POLICY: The College Maintenance Committee (CMC) of Sethu Institute of Technology is responsible for managing the maintenance function in the most cost effective manner possible while maximizing the useful life of units and properties and striving to provide the best service to the users. The following policy statements are designed to establish the structure of an effective and efficient maintenance system. The overall objective of the Maintenance Department is to maintain, throughout its expected useful life, the interior and exterior of college buildings, the grounds, and the roadways, and all fixed and moveable equipment through preventive maintenance and repairs. Further, this objective is specifically intended to provide: 1. Buildings and their components that function safely and at top efficiency. 2. Facilities and equipment that minimize the possibility of fires, accidents, and safety hazards. 3. Continuous use of facilities without disruptions to the educational program. 4. Protection of college property through proper planning, scheduling, and preventive maintenance. 5. Quality management of maintenance projects and tasks. 6. Conservation of energy through utilization of the latest technology and energy conservation measures. 7. A quality maintenance program through effective management and efficient utilization of resources. For the purpose of implementing these policies and procedures a Maintenance Cell is formed out of the members of the Maintenance Committee. The Convener and the Co-conveners of the Maintenance Committee of SIT will occupy the similar positions of the Maintenance Cell too. The Co-conveners will have a set of maintenance teams each for the works assigned to them. The Co-conveners shall report to the Convener who in turn will report to the Principal of SIT.

<https://sethu.ac.in/maintenance-policy/>

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	Fee Concession by the Management	486	29991980
Financial Support from Other Sources			
a) National	BC/MBC/SC/ST/First Graduate/PMSSS/Minority Scholarship/Army Scholarship/Teachers scholarship/Railway scholarship/Farmer scholarship	2862	60932000
b) International	NIL	Nil	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

Motivational Program	04/03/2020	1010	Dr.M. Lawrence M.A.,M.Phil.,Ph.D Asso.Prof. RD, Department of English, American College, Madurai.
Personal Counselling and Mentoring	11/07/2019	213	Dr.S.Gomathi, Counsellor, Madurai
Meditation	21/09/2019	1010	Zumba training
Bridge Course	14/08/2019	1010	First Year Subjects Handling Faculty of S.I.T
Remedial coaching	14/03/2020	150	Maths
Soft skill development	21/09/2020	563	Silicon Software
Soft skill development	03/10/2020	509	Innate Talent
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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 guidance Cell Training and Placement Cell	272	2355	Nil	Nil
2020	Career guidance Cell Training and Placement Cell	150	2355	9	561
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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
34	34	10

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of	Number of	Number of	Name of	Number of	Number of

organizations visited	students participated	stduents placed	organizations visited	students participated	stduents placed
46 Companies	960	427	21 Companies	960	134

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

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2019	1	BE	MECH	Aero Cloud Aviation, Coimbatore	Aviation
2019	1	BTECH	CHEMICAL	Erode Sengunthar Engineering College	M Tech Chemical Engineering
2019	1	BE	CIVIL	Thiagarajar College of Engineering	ME Environ mental Engineering
2019	1	BE	EEE	University College of Engineering, BIT Campus, Anna University, Trichy	MBA
2019	3	BE	ECE	Thiagarajar College of Engineering	ME Communi cation Systems
2019	1	BE	CSE	Manipal Academy of Higher Education, Dubai	MBA
2019	1	BE	MECH	Saveetha Engineering College	MBA
2019	1	BE	MECH	The American College, Madurai	MBA
2019	1	BE	MECH	Ramaiah Institute of Management Studies, Bangalore-54	MBA
2019	1	BE	MECH	Arden University in Berlin	MSc Engineering Management

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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	9

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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
SITWARE	Institute	80
Quiz, Modelling, Technical events-SAE	Institute	158
Technophilia'19	Institute	110
Fine arts 2019 Competitions	Institute	153
Engineers day	Institute	76
Project Contest and Exhibition	Institute	167
Innovative project contest	Institute	50
ERUPTA19	State	161
Unifest 2K20	Institute	200
Initiative Fest20	Institute	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/ International	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	II Prize in Group Dance AVAT HAR-2019	National	Nil	1	16CS203	S.PRASANNA
2019	II Prize in Orchestra Legacy 2019	National	Nil	1	18CS151	G.BHUVANA KUMAR
2019	Runner in Boxing Competition at Soldiers Boxing	National	1	Nil	17ME277	M.Bahath Raj

	Acadamy					
2019	Winner in Hockey Zonal Tournament	National	1	Nill	16EC062	A.Mohyam edAshfalk
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5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

• The college has a Student Association in each Department. Every association comprises of Secretary, Joint Secretary, Treasurer, Office Bearers and committee members guided by the faculty in-charge of the departments. The association organizes various activities of the departments. • The student representatives in all the associations/societies like ISTE/ IEEE student chapters, NSS, WEC and others organize various programs like paper presentations, symposiums, workshops, seminars that are conducted every Semester. • The academic and administrative bodies have the student representatives to enhance the traits of decision-making and leadership. The details of the activities are given below.

1. Class Committee: The Class committee meeting is to improve the institution by redressing the academic issues. The committee consists of the student representatives from each class in every department. They discuss the academic plan, syllabus coverage, difficulties in the subjects, test pattern, result analysis and other departmental activities like symposiums, workshops, paper presentations, Mini projects, etc.
2. National Service Scheme: The student volunteers of the NSS aim at developing student personality through community services. The NSS Program Coordinator and NSS Program Officer motivate the volunteers to serve the society through various activities like blood donation, special camps, awareness programs, planting tree saplings, temple cleaning etc..
3. Training and Placement Cell: The student volunteers from each department act as placement representatives and coordinate all the placement programs, guest lectures and the training activities. Peer group training by the students, enhance the talents of students.
4. Fine Arts Association: The student representatives of the Fine Arts Association organize extra-curricular and cultural activities. The Association also organizes "Fine Arts" day every year. Under this programme various cultural events are being staged by the student volunteers for the students in different cultural events.
5. Women Empowerment Cell: The student representatives of the Women Empowerment Cell join hands with WEC Faculty members to enhance the understanding of issues related to women and to make the college campus a safe place for women. Aiming at intellectual and social upliftment of the girl students various competitions are conducted like Rangoli, Mehendi, Cartooning, Painting and Art from waste.
6. Canteen: The college canteen also has the student representatives to give suggestions about the quality and cleanliness of the canteen.
7. Anti-ragging Committee: Anti ragging committee student representatives actively participate in maintaining a ragging free environment in the campus. The committee also takes instantaneous action to get rid of ragging.
8. Library Committee: The library committee has student representatives and they provide suggestions on the functioning of the library, library timings and additional books needed.
9. Hostel and Mess: The Hostel and Mess committee runs with the support of student members to check and fulfill the needs of the students in the hostel.
10. Student Welfare Committee: The student representatives of the suggestion committee provide suggestions on various issues of the college including curricular, co-curricular, extra-curricular and support services.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The College has a vibrant Alumni Association. The Association has UAE Chapter, Chennai Chapter and Bangalore Chapter apart from the parent Alumni Association at the College. The Alumni Association of the college strives to create a forum to foster a fruitful communication and a congenial relationship among the Alumnae, the students and the College. The Alumni Association organizes the alumni meet at various places through its Chapters every year. The college strongly believes that the success of the Alumni reflects the success of the Alma Mater. The College believes in the dictum that the strength of the Institution lies in the rapport maintained between the Alumni and the Institution. The Alumni members extend their support through: • Acting as members in the Board of Studies, Academic Council, Internal Quality Assurance Cell, Recognized Professional Bodies and Quality Circle etc. • Getting permission for industrial visits in their organization. • Coordinating for signing MoU with companies where the alumni are working. • Delivering Guest lectures to the students • Motivating the students on the current industrial expectations. • Each department separately conducts meetings with their alumni members. • Organizing on campus off campus placement programs for the students with the coordination of alumni. • PADIKKATTUGAL (STEPS) is one of the examples for alumni social responsibility, started by an alumnus M. Kishore, ICE department, 2008-12 batch. This is a non-profit trust which renders its service to orphanages, old age homes etc. with the support of alumni and public.

5.4.2 – No. of registered Alumni:

14215

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

0

5.4.4 – Meetings/activities organized by Alumni Association :

1. Mrs. N. Kanagalakshmi, MECH Alumni of 1997-2001 Batch, SO/E (EIC), IGCAR, Kalpakkam.visited our College on 14.08.2019 and provided suggestions of Research Project Work. 2. Er.Mohamed fahad, EEE Alumni of 2006-2010 Batch, Facilities Manager, Waseef Asset Management, Qatar provided fruitful suggestions of facilities Management Types of Maintenance at our College on 30.08.2019. 3. Mr. Venkat Subramanian, MECH Alumni of 2005-2009 Batch, Project Engineer, Ge.Net GMBH, Germany shared useful information about the Opportunities of Mechanical Engineering in Germany on 19.09.2019 during lecture. 4. Mr. Arul Murugan, (2014-2018 Batch), Project Engineer, Harinarayan Structural Pvt. Ltd., Chennai delivered a Guest Lecture on 15.10.2019 and the students gained the knowledge about construction materials. 5. Ms. B.Soundarya ,IT alumni of 2013 batch contributed for organizing an on campus placement program for M/s Enterprise Turch Pvt Ltd on 30.10.2019 and 8 students got placed in that Company. 6. Mr. Swathi devi .N, Shymala.B ECE 2014 alumni of 2019 batch contributed for organizing an on campus placement program for M/s Grow smart Electronics on 11.01.2020 and 15 students got placed in that company. 7. Ms. R.Swarnalatha,CSE alumni of 2019 batch contributed for organizing an on campus placement program M/s Jad focus on 21.01.2020 and 5 students got placed in that company. 8. Mr. S.Saktheeswaran,CSE alumni of 2009 batch contributed for organizing an on campus placement program M/s Reheinbrucke Pvt Ltd. On 24.02.2020 and 2 students got placed in that company. 9. Mr. C.K Hari, EEE alumni of 2019 batch contributed for organizing an on campus placement program M/s Mobase Electronics on 25.05.2020 and 31students got placed in that company. 10. Alumni from various batches visited our campus and delivered 18 Guest Lectures and Motivational Talks for the benefit of the students

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)

Decentralization: The management has delegated the daily operations and decision making responsibilities to Deans and Senior Professors. The authority is retained by the top management for taking major decisions and framing policies concerning the Institution. The various teams strive hard with coordinated effort to lift up the brand name of the College in all assigned areas. The various functions that are delegated are Teaching Learning Process, Academics, Research and Development, Innovation, Entrepreneurship Development, Internal Revenue Generation, Faculty Empowerment, Student Affairs, System Automation, Planning and Development, Institutional Growth and Appraisal, Institutional Promotion, Exam Related, Industry Institute Interaction, Infrastructure Development, Transportation, Alumni and Stakeholders Interface, Admission, Student Discipline, Library and College Ambience. Regular review meetings are conducted to monitor the performance of the various functions.

Participative Management System: Participative Management System is followed for delegation of power so that the decision making can be done quickly. With proper formation of various committees, smooth conduct of the college is achieved. It promotes genuine involvement in the enunciation of vision, policies and goals of the institution in the decision making process and in the administration of the college. It motivates employees to meet specific organizational goals. Motivated employees are the biggest assets of an organization and participative management is an effective strategy to retain the best talents of the college. The college follows Participatory Management Systems in all its decision making process. The participative management approach is practiced at different levels in the college and all the stakeholders are involved in the process of decision making based on collective wisdom. The stakeholders participate in the following forum and contribute to the decision making.

Participatory Management System for academic and administrative activities:

- Governing Council
- Staff Council
- Department Faculty Meeting
- Class Committee Meeting

Participatory Management System for curriculum designing:

- Academic Council
- Board of Studies
- Curriculum Planning and Evaluation Committee
- Department Advisory Board
- Program Assessment Committee

Participatory Management System for Quality Assurance:

- Internal Quality Assurance Cell

Participatory Management System for general activities:

- Student Welfare Committee
- College Faculty Meeting
- Alumni Meeting
- Parents Meeting
- Students Meeting

The participative management system enables the stake holders to participate in decision making and increases the involvement and commitment of all stake holders.

- Better communication and human relationships are promoted
- The suggestions of the faculty, students are implemented at various levels
- The involvement and commitment of the stake holders is increased.
- The participation of industry experts at various meeting helps to incorporate the industry perspective in decision making.
- The Class committee meetings and suggestion meetings help the students to participate in the decision making leading to their involvement in all activities.
- The suggestions provided by faculty, students, industry and parents are considered and the PMS becomes a responsive management leading to the satisfaction of all stake holders. Through Participative Management System the involvement, commitment and satisfaction of the stake holders are obtained

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

Partial

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	Quality in technical education is achieved by autonomy in curriculum design and development. The College was granted its autonomous status by the University Grants Commission (UGC) on 17082012 and ever since, the college continuously strives hard for the design and development of quality curriculum in all UG/ PG courses. The College introduced CBCS for the benefit of the students. Multidisciplinary and inter disciplinary courses were introduced. AICTE Model Curriculum is implemented from the academic year 2019-2020.
Teaching and Learning	Faculty members are trained to adopt ICT based teaching methodologies. Faculty members are encouraged to adopt appropriate innovative teaching methods to improve the teaching learning process. These innovative methods enhance the level of understanding and learning potential of the students. Due to Pandemic Online Classes were conducted in the last few months of the academic year. Student centric learning is characterized by innovative teaching methods in which students are active participants. It aims at fostering transferable skills such as problem solving, critical thinking and reflective thinking through communication with teachers and fellow students.
Examination and Evaluation	Bloom's Taxonomy is followed in setting up of the question papers for all examinations and to assess the students at different cognitive levels. The Blooms Taxonomy level and the Course Outcome addressed by each question is specified in the Question Paper. For Autonomous End Semester Examinations the question papers are set by faculty members of other reputed institutions. A scrutiny committee consisting of senior faculty members from other colleges and senior faculty members of the Department verifies the Question papers for its correctness in terms of Syllabus, Blooms Taxonomy level and the Course Outcome coverage.
Research and Development	The Vision of the college is to

promote excellence in technical education and scientific research for the benefit of the society. Review meetings were conducted periodically to monitor the progress in research and development activities in terms of research publications, funded projects, revenue generation. Research groups are formed in each Department in various domains. A Separate cell was formed for Internal Revenue generation.

Library, ICT and Physical Infrastructure / Instrumentation

Library is an important place that supports the institutions program of study and research. E-journals are subscribed for the library periodically. Deployment of ICT tools is encouraged for teaching, learning and assessment to make learning more effective. Faculty members are oriented for use of ICT tools for teaching and learning. Many Classrooms are equipped with LCD Projectors and new laboratories were established for the Departments as given below: Department of Agriculture Engineering • Food Processing and Post-Harvest Laboratory • Bioenergy Laboratory Department of Electrical and Electronics Engineering • IoT Laboratory

Human Resource Management

As human resource is the greatest asset to any organization the College takes careful measures for management of people in the institution. Human resource management of the College focuses on faculty and staff recruitment, training and development, performance appraisal and rewards to faculty and staff. Faculty recruitment is based strictly on merit through selection by duly constituted committees. Internal Quality Assurance Cell plans, schedules and coordinates training programmes, refresher/orientation courses for the benefit of faculty. Faculty members are also sponsored for seminars, workshops and conferences and other quality improvement programmes.

Industry Interaction / Collaboration

The College has Industry Institute Interaction Cell (III Cell) with financial assistance from the Institution. The College has continuous interaction with Industries through MoUs, Industrial training and Industrial Visits for students. The Industries also help in designing the syllabi for the courses. Industrial

	<p>Experts are invited to the institution for interaction with faculty and students. More than 60 MOUs are signed with various industries for academic and research interactions. It assists students acquire practical knowledge by giving them industry exposure and training. It organizes frequent Industrial visits for the faculty and students to promote students involvement in industry oriented projects.</p>
Admission of Students	<p>The policies regarding admission, fee structure, teacher qualification and salary are as per the norms of AICTE / DOTE Chennai. Being a self-financing college 65 of intake is admitted through single window system conducted by Anna University, Chennai and reservation policy of Government of Tamil nadu (18 for SC, 1 for ST, 20 for MBC, 30 for BC and 31 for OC) is followed for admission. Remaining 35 is filled by the management. The College ensures publicity through College Website, Brochures, Newspapers, Television, FM Radio and Educational Exhibitions.</p>

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

E-governance area	Details
Planning and Development	<p>The Planning and Development section of our College currently focuses on preparing the Strategic Plan of the College and coordinating the Quality Assurance Initiatives like NAAC Accreditation, NBA Accreditation and Academic Audit. Though e-governance is not fully implemented environment friendly initiative is taken by communicating to the Departments through email and intranet. The information regarding meetings, Minutes of the Meeting, Audit guidelines and Documents related to Accreditation are communicated through internet and intranet.</p>
Administration	<p>The following modules of ERMS are implemented for the general Administration of the College. • Student and Staff Profile • Staff Attendance • Student Attendance • Disciplinary Management System • Grievance Management System • Student Portal • Staff Portal</p>
Finance and Accounts	e-Governance is partially implemented

	in Finance and Accounts section of the ERMS software. The modules implemented are: • Admission and Fee Manager • Fees Payment and Counter • Finance • HR and Payroll
Student Admission and Support	The modules used for Student Admission and Support are: • Student Application • Roll No. Generation • Admission Quota • Fees Assignment based on the Category
Examination	Pre-Examination Process: • Student Exam Application - Regular, Arrear and Revaluation • Exam Fee Collection, Examination Time-Table Hall Ticket Generation • Examination Attendance Generation • Conducting Examination Process: • Checklist Generation Flip and Foil Cover Generation • Attendance Verification Despatch Generation Post Examination: • Practical Mark Entry • Dummy Number Generation Bundle Number Generation • Examination Mark Entry Galley Generation • Result Passing • Grade Sheet Generation Consolidated Grade Sheet Generation • Award of Degree Report Generation

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
2020	Dr. A. Anbarasan	E Mobility Development for Green India at VIT College	NIL	1500
2020	R.Rajaguru	Attending Convention of computer society of India	NIL	2000
2020	G.K. Tamilselvan	Workshop on Pedagogy for outcome based education 2019-2020	NIL	1985
2020	Dr.P.Ithaya Rani	Short Term course on Introduction to human factors Engg and Advanced cognitive	NIL	13100

		system design		
2019	Dr. S.Siva Ranjani	Attending CII conference	NIL	7618
2019	Dr. R. Tamilselvi	Presentation for Women Scientists scheme-A	NIL	2255
2019	Mr.B. Muthu Chozha Rajan	Latest Trends in Metallurg Programme at Mepco Engineering College	NIL	1200
2019	Mrs. V. Vaishnavi	International Conference on Recent Trends in Computing Communication at Kings Engineering College	NIL	1500
2019	Dr.M. Parisa Begam	Robotics Automation programme at Thiagarajar College of Engineering	NIL	1500
2019	Dr.R. Tamilselvi	Robotics Automation programme at Thiagarajar College of Engineering	NIL	1500

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6.3.2 – Number of professional development / administrative training programmes organized by the Colleges 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)
2019	Five Days Hands On Workshop On Machine Learning Using Python	Nil	22/07/2019	26/07/2019	3	Nil
2019	INFOSYS - Pedagogy	Nil	24/08/2019	Nil	9	Nil

	Workshop for Faculties					
2019	Workshop on "Data Analytics using MS Excel"	Nil	20/12/2019	Nil	32	Nil
2020	Workshop on Invention Innovation and Product Development	Nil	09/01/2020	Nil	7	Nil
2020	Online FDP Research challenges in Power and Energy systems	Nil	21/07/2020	24/07/2020	24	Nil
2020	National level Entrepreneurial Workshop on "Paver Block Manufacturing"	Nil	22/01/2020	Nil	7	Nil
2020	Nil	Computer Assembling and Networking-Wokshop	04/02/2020	Nil	Nil	4

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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
Ideas and Innovations in Blockchain Architecture, Technology and its Research Applications	1	16/11/2020	29/11/2020	14
Internet Of Things And Applications In 5g	2	20/04/2020	24/04/2020	5
AICTE Sponsored Six-	5	12/10/2020	17/10/2020	6

day Online Sttp On "Electric Cars Technologies And Modern Power System"-series II				
Advancements in Antennas	1	20/09/2019	21/09/2019	2
Industry and Research Perspectives on Advanced Wireless Technology	6	16/08/2019	21/08/2019	6
Anna University sponsored 6 days FDTP on "Compiler Design (CS8602)"	3	16/12/2019	21/12/2019	6
5 Day Faculty Development Program on Declarative Development for Platform App Builders	1	05/08/2019	09/08/2019	5
Data Analytics using MS Excel	1	20/12/2019	20/12/2019	1
Engineering Mechanics	1	05/12/2019	10/12/2019	6
AICTE-ISHRAE Refresher Course on Refrigeration AC	1	16/12/2019	20/12/2019	5
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
330	330	159	159

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<ul style="list-style-type: none"> • Allowance for Ph.D. • Incentives for research publications, sponsored projects and consultancy 	<ul style="list-style-type: none"> • Group Insurance • Maternity leave • Medical leave • Free transport facility 	<ul style="list-style-type: none"> • Tamil Nadu Government fee waiver scheme for first graduates • SC / ST Scholarship • Backward

works • Free transport facility • Group Insurance • Maternity leave • Medical leave

classes and minorities welfare scholarship • Group Insurance • Fee concession by management

6.4 – Financial Management and Resource Mobilization

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

Yes. Internal audits are conducted by the Accounts Section of the College. External audits are conducted by a registered Chartered Accountancy Firm. The grants received from the funding agencies are audited and certified by the Chartered Accountant and the Statement of account and Utilisation Certificate are submitted to the funding agencies.

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
Sethu Educational Trust Management	630000	Academic
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6.4.3 – Total corpus fund generated

10000

6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	External Peer Team Audit Committee	Yes	Internal Academic Audit Committee
Administrative	No	Nil	Yes	Internal Auditors

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

Parent - Teacher Association is effectively functioning in the Institution for the benefit of students. As part of this association, Parent - Teacher Meeting is conducted in the department every semester. Various matters are discussed in the meeting such as, Academic Plan, Academic Progress of students, Co-curricular activities, Autonomous Process and Student welfare. The Department Advisory Boards of all Departments have Parent Nominees in which parents are actively participating for the overall improvement of the programme. The parents also give feedback about the Institution and the Department to the experts of Accreditation Committees during the Expert Team Visit.

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

• National level Entrepreneurial Workshop on "Paver Block Manufacturing" on 22.01.2020 • Computer Assembling and Networking-Wokshop on 04.02.2020 • One day professional Development Program on Calibration on 11.01.2020

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

The College takes sincere efforts for continuous improvement in all areas. The Internal Quality Assurance Cell coordinates various quality related activities

of the Institution. Regular meetings of Internal Quality Assurance Cell are conducted once in a quarter to review and implement quality culture in the Institution. IQAC meetings ? Regular meetings of the Internal Quality Assurance Cell are conducted to ensure quality sustenance and enhancement activities. The dates in which IQAC meetings were conducted for the academic year 2019-2020 are 28.09.2019, 13.11.2019 and 24.02.2020. Strategic Planning ? The Internal Quality Assurance Cell actively involves in developing quality benchmarks of the Institute through strategic planning to achieve the vision of the Institute. The Strategic Plan (2016 - 2020) is derived from the Vision and the Mission of the College. The Strategic Plan stipulates the goals and objectives for the plan period. It helps to achieve the Vision and Mission of the College through its goals and objectives. It also specifies various strategies to be adopted to achieve the goals and objectives of the plan. The targets to be achieved through these strategies are also mentioned in the plan. The Planning and Evaluation Committee reviews the targets to be achieved for each academic year. The IQAC Cells monitors the achievement of these targets periodically. Accreditation by NAAC and NBA ? The Institution is keen on ensuring Quality of the Institution and Department through Accreditation by NAAC and NBA. The IQAC acts as a nodal agency for coordinating the activities for the preparation of Self-Assessment Report of NBA Accreditation and Self Study Report of NAAC Accreditation. The NBA Expert Team Visit of B.E. Mechanical Engineering and B.Tech. IT programmes was conducted in November 2019 and the Programs got accredited for Three Years. The Self-Assessment Report of NBA was submitted for the programs of B.E. Computer Science and Engineering, B.E. Electronics and Communication Engineering and B.E. Electrical and Electronics Engineering in December 2019. The Expert Team visit was expected in April 2020 but due to pandemic the visit was postponed to 2020 - 2021. The preparation for Second Cycle of NAAC has started and the Working Committee is constituted. Periodical meetings are planned to review the preparation for each criterion of NAAC SSR.

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	Yes

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	Establishing and Accessing Course Outcomes	24/08/2019	24/08/2019	24/08/2019	44
2019	Pedagogy for Outcome Based Education	29/08/2019	29/08/2019	29/08/2019	47
2020	Revised NAAC Frame Work for Quality Enhancement in Higher	27/02/2020	27/02/2020	28/02/2020	103

	Education Institutions				
2020	Webinar on Clarity of Program Outcomes (POs)	04/05/2020	04/05/2020	04/05/2020	99
2020	Webinar on Clarity of Program Outcomes (POs)	11/05/2020	11/05/2020	11/05/2020	100
2020	Webinar on Examination Reforms and Assessment Strategy	14/07/2020	14/07/2020	14/07/2020	288
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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

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

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Self-defence training program	17/10/2019	17/10/2019	350	Nil
Women safety and security	22/10/2019	22/10/2019	400	Nil
Gender Sensitization	14/08/2020	14/08/2020	120	Nil

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

Sethu Institute of Technology has initiated to develop "Green Energy", by installing 25KW off grid solar photo voltaic power generation system which comprises 125 numbers of 200 watts solar PV panels inside the college premises. By installing 25KW solar power generation system, our college will meet 5.30 of the total energy consumption of SIT. Total cost of the project is Rs.46.75 Lakhs. Our Institute has contributed an amount of Rs.27.91 Lakhs and remaining amount Rs.18.84 Lakhs funded by MNRE (Ministry of new and Renewable Energy) through TEDA (Tamil nadu Energy Development Agency). Sethu Institute of Technology has installed another 25K W offgrid solar photo voltaic power generation system which comprises 104 numbers of 240 watts solar PV panels inside the college premises. By installing 25KW solar power generation system, our college will meet 5.30 of the total energy consumption of SIT. Total cost of the project is Rs.32.48 Lakhs. Our Institute has contributed an amount of Rs.18.23 Lakhs and remaining amount Rs.14.25 Lakhs will be funded by MNRE(Ministry of new and Renewable Energy) through TEDA (Tamilnadu Energy Development Agency) Sethu Institute of Technology has installed another 18KW offgrid solar photo voltaic power generation system inside the college

premises. By installing 18 KW solar power generation systems, our college will meet 2 of the total energy consumption of SIT. Totally By installing solar power generation system, our college will meet 12.6 of the total energy consumption of SIT.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	Nil
Provision for lift	Yes	Nil
Ramp/Rails	Yes	Nil
Braille Software/facilities	Yes	Nil
Rest Rooms	Yes	Nil
Scribes for examination	Yes	Nil
Special skill development for differently abled students	No	Nil
Any other similar facility	No	Nil

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	11/12/2019	1	Blood Donation Camp	Importance of donating blood	331
2020	1	1	24/01/2020	1	Sports Shoes Donation to Gurukrupa Vidya ashram Special School, Madurai	Donation to Special children	100
2020	1	1	28/03/2020	1	Corona Virus Awareness Program	Prevention of Corona - for local community	60
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7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
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Hand Book	14/02/2020	<ul style="list-style-type: none"> • CBCS Regulations, • College rules and Regulations, • All Club details, • Faculty Details, • Placement Details
Anti-ragging Committee	01/07/2019	Anti-ragging committee has been formed as per the guidelines of the University Grants Commission. The Anti-Ragging squad conducts surprise checks at vulnerable places and hostels. The College obtains undertaking from students and parents on anti-ragging
Girls Grievance Redressal Cell	20/02/2020	The college has a Girls Grievance Redressal Cell which redresses the grievances of the girl students and women staff including the grievances on sexual harassment. In addition, suggestion box is available in the department and at common places the girl students can air their grievances on sexual harassment through the suggestion box. The College has an active Women Task Force which ensures the safety of girls and provides suggestions to improve the safety and security of the girl students and women employees.
Vishakha Committee	08/07/2019	The committee will admit complaints from Female employees on harassment and discrimination in the workplace. Female students on harassment and discrimination in the classroom and in relation to academic activities by faculty and staff

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Tree Plantation Camp	13/07/2019	13/07/2019	100

Paper bag Workshop Organized by SIT ECO CLUB	15/07/2019	17/07/2019	60
Guest lecture on "Youth of today-challenges and opportunities". The lecture will be delivered by Dr.Nazeera Dawood, CEO, Chai Chat, USA. organized by Yi Yuva club of our college	23/09/2019	23/09/2019	100
Seed ball Workshop Organized by SIT ECO CLUB	27/09/2019	01/10/2019	40
Workshop on Disaster Management Fire Safety	27/09/2019	27/09/2019	150
Dengue Prevention Camp	21/10/2019	21/10/2019	100
Celebrating Life	23/10/2019	23/10/2019	55
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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

1. Paper bag workshop: SIT ECO Club has organized PAPER BAG WORKSHOP for all the SIT ECO Club members with the motto of creating interest among the students to use paper bag as the alternate bag for their use from 12.07.2019 , 09.08.2019 to 14.08.2019. The club members participated eagerly and made 1000 paper bags.
2. Seed ball workshop: SIT ECO Club has organized the SEEDBALL workshop with the motto of creating awareness among the members about the forestation. The members learned how to prepare seed balls and how it support forestation. The seeds of neem tree, pungai tree , tamarind tree were used to create the seed balls. The workshop was conducted from 26.09.2019 to 10.10.2019.About 9500 seed balls were ready to shower the ground and turn it into green.
3. Tree Plantation: Tree Plantation Camp organized by NSS on 13.07.2019 more than 100 No. of students
4. Orientation Program: Orientation Program on "Ban Plastic" organized by Rotaract Club on 03.10.2019.
5. Landscaping: Landscaping of ECE CSE department on 03.04.2020 and 05.04.2020.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practice - 1 1. Title of the Practice: Promoting Experiential Learning 2. Objectives of the Practice: ? To make students learn through experience in order to learn the concepts clearly Engineering education depends mainly on practical knowledge. Learning will not be fruitful if it is only through books. To help students develop engineering knowledge through practice learning methods like Project Based learning and Learning through Lab are adopted. ? To make students learn beyond the classroom that makes them Industry-ready In

order to make the students employable and valuable, students should be made Industry-ready. Industrial training and Industrial visits are encouraged to give industrial exposure and practical experience to the students. 3. Context: Experiential learning enriches the knowledge of the students through hands-on experience. The students should be able to design, develop and evaluate complex systems or products, which are useful to the society. In this context, the students should be able to carry out all these knowledge and skills based activities in their academic framework. The College provides a range of experiential learning opportunities to the students to develop their skills. Project based learning helps the students to develop a variety of skills in the process of creating their own projects in Project-based learning. The most important aspect of project-based learning is the experiential learning in the process of doing the projects. The hand on experience gained by the students in laboratory courses help them gain insights and understanding of the real world.

Industrial training and Industrial visits enable student to get first hand information on what is done in the Industries. 4. The Practice (practice and its uniqueness in the context of India higher education - 400 words) The College provides experiential learning mainly through Project based learning, Experiential learning through Lab and Experiential learning through Industry. Project Based Learning (PBL) is widely used in engineering education to provide the experience of solving problems. Project based learning are designed to gain knowledge and skill based experience through project work. Students are asked to form teams of size minimum 3 students and they are expected to carry out a project that implements the concepts of a particular course. Students learn to work in teams and also time and project management. In project based learning what the student learns by doing the project is more important than the deliverables of the project. In the continuous internal assessment of that course the project work is also given proper weightage. In the Choice Based Credit System the academic regulation gives opportunity for the students to be a part of the funded projects and the consultancy activities done by the faculty members of their Departments. This experience gives students a chance to understand the concepts more clearly. Experiential learning through Lab is learning that takes place in a space where students can observe, practice, and experiment with objects, and ideas either individually or in groups. The primary aim of lab courses is to develop the practical competence in their area of specialization. For most of the theory courses lab support is provided and some courses are offered as integrated course where the practical experience will be given as a part of the course. Experiential learning through Industry is very important for making students industry ready. So the internship/in-plant training is part of the curriculum and all students should undergo training in industries. Students earn credits based on the duration of training. Industrial training enhances the knowledge of the students on different cutting edge technologies and provides real time exposure to the corporate world. Industrial Visit gives an insight of what is happening in the industries. The challenge of providing In-plant training and Internship exists, but through the placement cell and the Internship initiatives of the Government of India, the students are able to get internships, which help them to gain industrial experience needed for their professional career. 4. Evidence of Success: (Details available in the College) (i) Details of Awards in Innovation Contests: The implementation of experiential learning has resulted in better understand of concepts by the students and as a result of which students won many awards in National and state level innovation contests. In Innovation contests like DST-Lockheed Martin-Tata Trusts IIGP 2.0 - University Challenge 2019, TI DST, Arambam, TNSI 2019 and H-Social Creator Award -Hyundai around 20 students won awards for Innovative Projects such as • OsteoCheX- A handheld device to measure bone density from X-ray images • Fetal Stress Monitoring Device • Prosthetic Arm • BCI System for Comatose • Non Invasive Glucometer • MediRobo • IoT based Smart Drum Composting with Solar Heating (ii) Project

Based Learning: Every year few courses are offered through Project Based Learning in each Department. Some of the courses are mentioned below: ?

Concrete technology ? Building Internet of Things ? Microprocessor and Microcontrollers (iii) Integrated Courses: The following are some Integrated Courses that have lab component as a part of the Course ? Data Structure and Algorithm Analysis ? Digital Image Processing ? ARM Processor ? Embedded and Real time Systems (iv) Details of Internship: The details of

Internship/Industrial training for students is provided in 3.7.2 Best Practice - 2

1. Title of the Practice: Quality Improvement through Outcome Based Education (OBE)
2. Objectives of the Practice What are the objectives / intended outcomes of this "best practice" and what are the underlying principles or concepts of this practice (in about 100 words)? To offer holistic education that builds the knowledge, skill and attitudes of the students Holistic education is the one that influences the cognitive, psychomotor and affective domain of the learner. OBE means clearly focusing and organizing everything in an educational system around what is essential for all students to be able to do successfully at the end of their learning experiences. To ensure that students attain all the engineering graduate attributes by the time of graduation The engineering graduate attributes are defined by the International Engineering Alliance. The technical skills and the generic skills required by an engineering graduate that are defined through the Program Outcomes can be attained by the graduates through OBE.
3. The Context What were the contextual features or challenging issues that needed to be addressed in designing and implementing this practice (in about 150 words)? Traditional Educational Systems are ineffective in providing students with the relevant information needed to excel in the modern world. Outcome-based education is a student-centric learning system that enables the students attain the learning outcomes by developing their knowledge skills. The knowledge, skills and attributes that students take away at the end of a program are more valuable in outcome based education. The outcome-based education enables learning institutions to create effective curriculum, instruction models and assessment methods customized to the attainment of learning outcomes. Outcomes basically describe knowledge, skills and behavior of students based on the three domains of educational objectives such as cognitive, psychomotor and affective domain given by Benjamin Bloom in his book "Taxonomy of educational objectives: the classification of educational goals" in 1956. In this context the Program strives to structure their curriculum and the syllabi, design suitable learning techniques and assessment to achieve the learning outcomes.
4. The Practice Describe the practice and its uniqueness in the context of India higher education. What were the constraints / limitations, if any, faced (in about 400 words)? The OBE approach is a continuous process of education wherein the curriculum, teaching and learning strategies, and assessment tools are improved continuously. The OBE learning process can be stated into four steps: a) Plan (Syllabus Writing/Review)-The Course Learning Outcomes are aligned with the ELGA, PEO and Student Outcomes. The syllabi reflect strategies (learning plan) for achieving the outcomes, as well as for measuring the outcomes assessment) b) Implement (Course Delivery)-Carry out the learning plan and strategies planned for producing the outcomes c) Measure / Assess (Assessment) -Carry out the strategies planned for measuring the learning outcomes and objectives. Collect this data and analyze it to determine the results. (Assessment Phase). This phase is where feedback is obtained. Plan (Syllabus Writing/Review)- Outcome based Education enables the program define the desired outcomes the students should have achieved at the end of the program. The Institute defines the Institutional Vision and Mission and the Department level Vision and Mission statements are derived from them. At the program level Program Educational Objectives and Program Outcomes and Course Outcomes are framed. Program educational objectives are broad statements that describe the career and professional accomplishments that the program is preparing the graduates to

achieve. Program outcomes describe what students are expected to know and be able to do by the time of graduation. These relate to the skills, knowledge and behaviors that students acquire as they progress through the program. Program Specific Outcomes define outcomes what the students are able to do at the end of the program based on their specific domain. Course Outcomes (COs) are statements that describe the knowledge or skills the students should acquire by the end of a particular

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

<https://sethu.ac.in/category/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

Promoting Innovation culture among students and faculty The vision of the college is to promote excellence in technical education and scientific research for the benefit of the society. MISSION • To provide quality technical education to fulfill the aspiration of the student and to meet the needs of the Industry • To provide holistic learning ambience • To impart skills leading to employability and entrepreneurship • To establish effective linkage with industries • To promote Research and Development activities • To offer services for the development of society through education and technology Core Values: Quality, Commitment, Innovation, Team Work and Courtesy The college always encourage the students and faculty members to think anti conventional and develop innovative ideas beyond their discipline. The college always encourages the research for the benefit of society. One of the core values of our Institute is Innovation. To bring out the innovative idea from the students and the faculty members the college has inaugurated EDC, IIC etc., through which various talent hunt programs were organized. These type of organizational culture will kindle the creativity and innovation among student and faculty. It also helps to transits research into product which could meet the market need. Through this the linkage with the industries also gets stronger. Promoting Culture of Innovation The college promotes the culture of innovation through • Setting up Innovation Cell and Entrepreneurship Cell • Organize Student Innovation Competitions Exhibitions • Organizing Awareness programs on Innovation • Funding for Innovation and Incubation • Innovation of course curriculum and teaching pedagogies The following Activities have been carried out to promote Innovation culture among students and faculty Leadership Talk National Level leaders provided motivational talk through Online Platform to promote Innovation among students and faculty. Hon'ble HRD Minister Dr.Ramesh Pokhrial Nishank delivered a motivational talk to the students and faculty on Innovation on 22nd August 2019. Workshop on Entrepreneurship and Innovation as Career Opportunity Organize seminar and workshop to the students to learn the avenues of Entrepreneurship and Innovation as Career Opportunity Student design contest The College regularly conducts Students design Contest every year and Students Design contest was conducted on 29th and 30th October 2019. Presentation on National Innovation and Startup Policy 2019 Celebrating Innovation Day organize the motivation speech on National Innovation and Startup Policy 2019 Field Visit to Identity Real Life Problem Innovative idea will do this firstly by choosing a community that means something to you and identifying a real world problem within that community you would like to solve In addition to the above programs the College also conducted the following programs to promote innovation culture in our college: Motivational Speech by Innovators and Entrepreneurs Internship at Innovation Camp at Start-up Centre or Incubation Unit Innovation Day Campaign Product Design/ Design Thinking Workshop Workshop on Marketing Research Tools and Methodology Understanding

Angel and Venture Capital Funding Business Plan Competition Toy-Hackathon From your Ph.D./ Master's Thesis to a start-up Lean Start-Up Entrepreneurial Mind in this pandemic.

Provide the weblink of the institution

<https://sethu.ac.in/category/distinctive-feature/>

8.Future Plans of Actions for Next Academic Year

The following are the future plans for the forthcoming year: 1. To start two new UG Programs 2. To apply for second cycle of NAAC Accreditation 3. To offer courses in emerging areas 4. To establish industry supported laboratory 5. To establish collaboration with research organization 6. To promote blended learning