Yearly Status Report - 2019-2020

Part A	
Data of the Institution	
1. Name of the Institution	**SENGUNTHAR ENGINEERING COLLEGE**
Name of the head of the Institution	**Dr.C.VENKATESH**
Designation	**Principal**
Does the Institution function from own campus	**Yes**
Phone no/Alternate Phone no.	**04288255716**
Mobile no.	**9842755552**
Registered Email	**info@scteng.co.in**
Alternate Email	**principal@scteng.co.in**
Address	**Kosavampalayam, Kumaramangalam Post,**
City/Town	**Tiruchengode**
State/UT	**Tamil Nadu**
Pincode	**637205**

2. Institutional Status

Autonomous Status (Provide date of Conformant of Autonomous Status)	**24-Jun-2019**
Type of Institution	**Co-education**
Location	**Rural**
Financial Status	**private**
Name of the IQAC co-ordinator/Director	**Dr.M.Selvakumar**
Phone no/Alternate Phone no.	**04288255716**
Mobile no.	**9443916275**
Registered Email	**iqac@scteng.co.in**
Alternate Email	**mselvakumar.mech@scteng.co.in**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	http://scteng.co.in/IQAC/NAAC

4. Whether Academic Calendar prepared during the year

4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	http://scteng.co.in/CoE/AcademicSchedule

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	**A**	**3.06**	**2015**	**15-Nov-2015**	**14-Nov-2020**

6. Date of Establishment of IQAC

6. Date of Establishment of IQAC	**31-Dec-2014**

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
Placement Training Activities	**26-Sep-2019** **15**	**90**
Studentpreneur Activities	**23-Jul-2020**	**125**

	20	
Employability Enhance Programme	29-Jan-2020 7	80
Industrial Institute Partnership	03-Jan-2020 1	20
Faculty Corporate Training	04-Sep-2019 1	8
Book Review & Discussion	10-Jul-2019 1	46
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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
Institution	EAC	EDII	2019 3	20000
Institution	World Intellectual property Day	SCT	2020 1	10000
Institution	World Telecommunication Day	IEI	2020 1	10000
Institution	NEXGEN Technologies	SCT	2020 2	10000
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9. Whether composition of IQAC as per latest NAAC guidelines:	**Yes**
Upload latest notification of formation of IQAC	View File
10. Number of IQAC meetings held during the year :	**3**
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)	

Sengunthar Engineering College approved as the Remote Centre of Indian Institute of Technology, Bombay (IITB)Sengunthar Engineering College received 103rd rank in All Over India Best Engineering College Ranking by India TodayProf. A.Baladhandapani, Secretary and Correspondent has awarded as Mahatma Gandhi Leadership Award by NRI Welfare Society of India at House of Commons, London, UK on 11th October 2019Two proposals (ECE MECH) submitted for Science and Engineering Research Board (SERB) for the worth of Rs.1,00,14,972 / (ECE Rs.50,14,972 / MECH Rs.50,00,000 /)Fund Recieved for STTP – Short Term Training Program form AQIS Scheme for the worth of Rs. 3,00,000Retained 6th Position in Ranking of Promising Engineering Colleges in India and obtained 21st Rank at Top Engineering Colleges in Tamilnadu by GHRDC – CSR Survey 2018Submitted the Proposal for TNSCST Scheme under the Department (CSE, ECE, EEE MECH) worth of Rs 61,03,960/Submitted the Proposal for MSME Scheme under the Department (Civil, CSE, ECE, EEE MECH) worth of Rs 2,37,00,000/Submitted the Proposal for My Gov Scheme under the Department (Civil, CSE, ECE, EEE MECH) worth of Rs 1,94,00,000/Submitted the Proposal for AICTE/FDP/STTP Scheme under the Department (CSE, ECE, EEE MECH) worth of Rs 90,81,347/Submitted the Proposal for ICSSR/IMPRESS Scheme under the Department (ECE) worth of Rs 5,00,000/Submitted the Proposal for My Gov Scheme under the Department (Civil, CSE, ECE, EEE MECH) worth of Rs 1,94,00,000/Entrepreneurship Development Institute of India, (EDII) Ahmadabad sponsored Rs.0.20 Lakhs to conduct "Entrepreneurship Awareness Camp" from 18th to 20th December.Organized Sengunthar Entrepreneur Exhibition 4rd Edition on 18th to 20th December.. Total Volume of Business happened for Rs.34,515/..Sanctioned Rs. 19,18,750/ for CSE, ECE, EEE Mechanical Departments under the Skills Training Scheme from Pradhan Mantri Kaushal Vikas Yojana (PMKVYTI).MSME Expert Committee visited and inspected on 21.01.2020TNSCST Sanctioned Rs. 15000/ for two projects on February 2019. MoU signed with Lab Tech, SIDCO Industrial Estate , Guindy on 18.12.2019 Organized Third International Conference on "NexGen Technologies" between 21.03.2020 22.03.2020 in association with Conference World, New Delhi. Sengunthar Engineering College is ranked as "AAA" in Top Engineering Colleges in India by CAREER360° May 2020.Attained 8th Position in Ranking of Promising Engineering Colleges in India and obtained 25th Rank at Top Engineering Colleges in Tamilnadu by CSRGHRDC Engineering Colleges Survey 2019.Second Golden Star Certification received from MHRDIIC (Institution's Innovation Council) on 22.06.2019 Sengunthar Engineering College has granted Conferment of Autonomous Status from UGC, New Delhi on 24th June 2019

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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
College Admission, Placement, Result, Cocurricular Activities, MSME, Research Promotion, Funding Proposals activity mentioned later	College IQAC focusing on each factor which provides the Quality Enhancement for the Institution in a wider concept. out of various verticals, IQAC choose seven areas which shown a exponential growth in all aspects.ge activity mentioned later
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14. **Whether AQAR was placed before statutory body ?**	**Yes**

Name of Statutory Body	Meeting Date
IQAC Board Meeting	**26-Dec-2019**

15. **Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?**	**Yes**
Date of Visit	**21-Jan-2020**
16. **Whether institutional data submitted to AISHE:**	**Yes**
Year of Submission	**2020**
Date of Submission	**31-Jan-2020**
17. **Does the Institution have Management Information System ?**	**Yes**
If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)	**IQAC leads the total control of MISSection of our institution. A System of Operation and Documentation is executed in the Institution and which has a frequent monitoring system to track the process.**

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	**CE**	**Civil Engineering**	**24/07/2019**
BE	**CS**	**Computer Science and Engineering**	**24/07/2019**
BE	**EC**	**Electroncis and Communication Engineering**	**24/07/2019**
BE	**EE**	**Electrical and Electronics Engineering**	**24/07/2019**
BE	**ME**	**Mechanical Engineering**	**24/07/2019**
ME	**PST**	**Structural Engineering**	**24/07/2019**

ME	PCT	Computer Science and Engineering	24/07/2019
ME	PVT	VLSI	24/07/2019
MBA	BAT	Mater of Business Administration	24/07/2019
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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	CSE, ECE, EEE	24/07/2019	19EEC101 – Life Skills for Engineer	01/08/2019
BE	Civil, CSE, ECE, EEE & Mechanical	24/07/2019	19EEC201 – Technical Skill (AutoCAD)	02/01/2020
BE	Computer Science and Engineering	24/07/2019	19EEC202 – Technical Skill (Multimedia)	02/01/2020
BE	Electronics and COmmunication Engineering and Electrical & Electroncis Engineering	24/07/2019	19EEC203 – Technical Skill (Hands on training in Electrical & Electronics	02/01/2020
ME	Structural Engineering	24/07/2019	19PSE201 – Practical Training – I	12/09/2019
ME	Computer Science and Engineering	24/07/2019	19PCS201 – Term paper Writing and Seminar	12/09/2019
ME	VLSI	24/07/2019	19PVE201 – Term paper Writing and Seminar	12/09/2019
MBA	MBA	24/07/2019	19BAL108 – Spoken and Wirtten Communication	12/09/2019
MBA	MBA	24/07/2019	19BAL208 – Data Analysis amd Business	02/01/2020
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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
No Data Entered/Not Applicable !!!		

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
MBA	Master of Business Administration	24/07/2019
BE	Civil Engineering	24/07/2019
BE	Computer Science and Engineering	24/07/2019
BE	Electronics and Communication Engineering	24/07/2019
BE	Electrical and Electronics Engineering	24/07/2019
BE	Mechanical Engineering	24/07/2019
ME	Structural Engineering	24/07/2019
ME	Computer Science and Engineering	24/07/2019
ME	VLSI	24/07/2019

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
Aptitude and Reasoning Training	20/08/2019	76
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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	Civil Engineering	1
BE	Mechanical Engineering	4
BE	Mechanical Engineering	4
BE	Electronics and Communciation Engineering	2
BE	Electronics and Communciation Engineering	1
BE	Electronics and Communciation Engineering	5
BE	Computer Science and Engineering	1
MBA	Master of Business Administration	4
MBA	Master of Business Administration	17
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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

Feedback Obtained for framing curriculum is made vibrant by the involvement of the stakeholders and experts in the concerned field of studies. The curriculum is framed based on recent developments and feedback from stakeholders. Feedbacks regarding curricular aspects will be received from Alumni, Industry experts and Academicians (stakeholders) every semester and are reviewed by the Board of Studies committee members. Relevant and innovative suggestions related to the courses are considered for inclusion in the curriculum. The Board of Studies committees shall be involved in the development of the curriculum and syllabi for the foundation courses in the areas of Humanities and Sciences (including English and Management), Basic Sciences, Mathematics, Engineering Sciences and Soft skills Aptitude. Based on feedbacks obtained from the various stakeholders through interactions and meetings, the Academic Council committee will finalize the curricula. The finalized curricula and syllabi of various semesters in a department will be presented and discussed in the Board of studies (BOS) meetings concerned for its recommendation for Academic Council approval. The BOS comprises of Chairperson of BOS concerned- HOD, Internal faculty members, University nominees, Industry experts, Academicians and Alumni. The recommendation given in the BOS meetings will be approved in the Academic Council meeting conducted twice in an academic year. The Academic council comprises of Principal, all head of departments, university nominees, industry experts and academicians. The Academic council shall approve the academic regulations, curricula, syllabi and modifications, instructional and evaluation arrangements, methods, procedures etc relevant to academic and research area. The Academic council approval shall be presented in the Governing body meeting of the college conducted once in an academic year. The Governing body comprises of Chairman of the college, management members and senior faculty members of the college, industry experts, state government nominee, university nominee and UGC nominee. The approval given by academic council shall be presented, discussed and approved in the governing body for effective implementation of the same. The curricula and syllabi of various programmes are regularly reviewed based on the feedback got from various stakeholders and shall be discussed and approved in the Board of studies meetings, Academic council and Governing body meetings. The curricular aspects based on industry needs will be highly useful for career growth of the students in a better manner.

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	Civil	60	1	1

	Engineering			
BE	Computer Science and Engineering	90	35	27
BE	Electronics and Communication Engineering	120	15	14
BE	Electrical and Electronics Engineering	90	12	10
BE	Mechancial Engineering	60	18	13
ME	Structural Engineering	18	1	1
ME	Computer Science and Engineering	18	10	8
ME	VLSI	18	1	1
MBA	Master of Business Administrations	60	10	5

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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	689	20	107	14	36

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	Numberof smart classrooms	E-resources and techniques used
125	125	4	6	1	2

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

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

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

Our Institution has an effective Mentor Ward System, which shows a gradual development among the students performance in all aspects. Each faculty is assigned with 15 students as their ward and they give personal attention and care among the students for their career and personal development in all aspects. A regular review meeting would give them benefit in educational, personal, professional and other improvements. Apart from the Mentor Ward System, DeanStudents Affairs is taking care of the Critical issues among the students to overcome out of it. Regular Counselling session is organized by batch wise for their upliftment

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
709	125	1:6

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
125	125	0	14	0

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

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Dr.C. Aarthi, International level	Associate Professor	Acted as one of the Jury for Quarter final Round selection of Texas India Innovation Design Contest 2020
2019	Dr.C. Aarthi, International level	Associate Professor	Nominated as member of the Prestigious Confederation of elite Academicians by DST Texas Instruments
2019	Dr.K. Umadevi, State level	Professor	Best Engineer Women Award for 52th Engineers day, Instuition of Engineers at Salem local center
2020	Dr.C.Venkatesh, National level	Principal	Rank - 2 : World Intellectual Property Day2020 Awareness Campaign - Case Study Competition
2020	Dr.C.Aarthi, National level	Associate Professor	Rank - 2 : World Intellectual Property Day2020 Awareness Campaign - Case Study Competition
2020	Mr.N.Thiru Senthil Adhiban, National level	Assistant Professor	Rank -1 : World Telecommunication and Information Society Day-2020 Awareness Campaign - Presentation Competition

| 2020 | Dr.C.Venkatesh, National level | Principal | Rank :2 - National Technology Day 2020 Awareness Campaign - Article Writing Competition |
| 2020 | Dr.C.Aarthi, National level | Associate Professor | Rank :2 - National Technology Day 2020 Awareness Campaign - Article Writing Competition |

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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
BE	11	I / I	13/12/2019	07/03/2020
BE	103, 104, 105, 106, 114	I/I	13/12/2019	09/03/2020
BE	103	III,V,VII / II, III, IV	27/06/2019	07/03/2020
BE	104	III,V,VII / II, III, IV	27/06/2019	07/03/2020
BE	105	III,V,VII / II, III, IV	27/06/2019	07/03/2020
BE	106	III,V,VII / II, III, IV	27/06/2019	07/03/2020
BE	114	III,V,VII / II, III, IV	27/06/2019	07/03/2020
ME	413	I,III / I, II	02/01/2020	07/03/2020
ME	419	I,III / I, II	02/01/2020	07/03/2020
MBA	631	I,III / I, II	02/01/2020	07/03/2020

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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
0	0	0

2.6 – Student Performance and Learning Outcomes

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

http://scteng.co.in/documents/IQAC/SPLO.pdf

2.6.2 – Pass percentage of students

Programme	Programme	Programme	Number of	Number of	Pass Percentage

Code	Name	Specialization	students appeared in the final year examination	students passed in final year examination	
No Data Entered/Not Applicable !!!					
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2.7 – Student Satisfaction Survey

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

http://scteng.co.in/IQAC/NAAC

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
Dr.C.Venkatesh,Dr.C.Aarthi,Dr.R.Shanmugam,Mrs.N.kiruthika, Dr.M.Selvakumar,Mr.N.Thiru Senthil Adhiban, Dr.K.Umadevi,R.Senthilrajan,Dr.M.Sakthivel,Dr.B.Sujatha
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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
No Data Entered/Not Applicable !!!				
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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
Minor Projects	**180**	**TNSCST**	**7000**	**7000**
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3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

3

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
Workshop on "How to file Patent?"	**Computer Science and Engineering**	**29/11/2019**

Workshop on Intellectual Property Rights"	Mechanical Engineering	29/11/2019

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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
Vehicle Clutch Using Eddy Current Coupling	S.Kathiresan, R.Ranjith Kumar, N.Subramani	TNSCST	12/07/2019	Student Category
Design and Implementation of GPS based Border Alert and Indentification System for Fisherman	M.Nandhini, S.Monisha, V.Ranjitha, V.Priya	TNSCST	18/03/2020	Student Category
Rebooting the Economy through Science,Technology and Research	Srivignesh.K	Gulzar Group of Institutions, Ludhiana	21/05/2020	Student Category
Sucessful Technology Commercialization	Keerthivasan.A.M	Gulzar Group of Institutions, Ludhiana	21/05/2020	Student Category
Technological Revolution in India	Elavarasan.M	Gulzar Group of Institutions, Ludhiana	21/05/2020	Student Category
Enabling the Positive use of Artificial Intelligence through applications for covid 19 Pandemic	Elavarasan.M	Gulzar Group of Institutions, Ludhiana	25/05/2020	Student Category
Telecomunication	Prema.K	Gulzar Group of Institutions, Ludhiana	25/05/2020	Student Category
Telecomunication	Srivignesh.K	Gulzar Group of Institutions, Ludhiana	25/05/2020	Student Category
Enabling the Positive use of Artificial Intelligence through applications for covid 19 Pandemic	Keerthivasan.A.M	Gulzar Group of Institutions, Ludhiana	25/05/2020	Student Category

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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
CoE	Texas Innovation Lab	STEPS Knowledge Services Private Limited, Coimbatore	Texas Innovation	Robotics Lab	15/03/2019
MSME	SEC MSME HI/BI	Micro, Small Medium Enterprises	Innovative Projects	HI/BI	21/01/2020
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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
Civil Engineering	1
Computer Science and Engineering	1
Electronics and Communication Engineering	1

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	Civil Engineering	5	0.65
International	Computer Science and Engineering	8	0.12
International	Electronics and communications Engineering	21	5.98
International	Electrical and Electronics Engineering	12	1.83
International	Mechanical Engineering	4	0
International	Science and Humanities	1	0.12
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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
Civil Engineering	3
Computer Science and Engineering	11
Electronics and Communication Engineering	17
Electrical and Electronics Engineering	2

Mechanical Engineering	4
Science and Humanities	1
Master of Business Administration	3
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3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
AGNISHAMAK – A SMART FIRE EXIT SYSTEM	Filed	201941052717 A	03/01/2020
ORGANIC VAYU PURIFIER SYSTEM (OVPS)	Filed	201941052172 A	20/12/2019
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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 mentioned in the publication	Number of citations excluding self citation
Pollution Monitoring and Controlling System with IoT	Mr.P.Gopinath	International Journal of Advance Research in Science and Engineering	2020	0	Assistant professor	0
Study on behavior of steel fibre reinforced concrete with addition of mineral admixtures	R.Sri Ranjani	Alochana Chakra Journal	2020	0	Assistant Professor	0
Silent Scream of Suppressed Women in That Long Silence by Shashi Deshpendey	S.Bhuvana R.Pavithra	Our Heritage Journal	2020	0	Associate Professor	0
An efficient wideband low noise amplifier (WLNA)	A.Yogeshwaran, Dr.K. Umadevi	Journal of Microprocessors and Microsystems	2020	0	Professor	0

using advanced design system based industrial micro strip antenn						
Analysis and Design of Power optimized pipelined processor using Micrologic elements	Dr.C.Aarthi	Natural Sciences Publishing Corp- Applied ma thematics and Inform ation Sciences	2019	0	Associate Professor	0
Smart Minor And Drunken Driving Prevent System (Smdps)	Dr.C.Venkatesh	International journal of advance research in science and engine ering	2020	0	Professor	0
Secured AI guided Arc hitecture for D2D system for Massive MIMO based 5G Networks	A.Vijay and Dr. K.Umadevi	3rd Intern ational Conference on Trends in Electro nics and i nformation (ICOEI 2019),SCAD college of Engineerin g and Technology , Tirunelv eli, 23-25	2019	0	Professor	0
Explainabl e AI Controlled Architectu re of D2D system for Massive MIMO based 5G Networks	A.Vijay and Dr. K.Umadevi	Internatio nal Journal of Scientific Research and Review (Second In ternationa l Conferance on Nexgen Technologi es	2019	3	Professor	0
Control of Land	T Kanchana,	Internatio nal	2019	0	Assistant Professor	0

Pollution by the Partial Replacement of Effluent Sludge in Manufacturing of Fly ash Bricks	M Jamunabharathi, S Thaththathirian	Journal of Scientific Research and Review (Second International Conferance on Nexgen Technologies)				
Intelligent Security System for Women by Using Ardunio	M.V Nanthakumar, MG Hariprabha, MD Jasmine, MB Keerthana	International Journal of Scientific Research and Review (Second International Conferance on Nexgen Technologies)	2019	0	Assistant Professor	0

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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
An optimized distributed secure routing protocol using dynamic rate aware classified key for improving network security in wireless sensor network	S.S.Sathya K.Umadevi	Journal of Ambient Intelligence and Humanized Computing	2020	4	3	0
Protecting user profile based on attributebased encryption	V. Vijayakumar K. Umadevi	Journal of Ambient Intelligence and Humanized Computing	2020	4	32	0

using multilevel access security by restricting unauthorization in the cloud environment							
An efficient wideband low noise amplifier (WLNA) using advanced design system based industrial micro strip antenna	A.Yogeshwaran, Dr.K. Umadevi	Journal of Microprocessors and Microsystems	2020	4	54	0	

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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	49	188	125	20
Presented papers	50	15	5	10
Resource persons	5	2	2	10

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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)
Civil Engineering	Survey	Pavadi, Tiruchengode	5000
Electroncis and Communication Engineering	Design and Implementation of GPS based border alert and Identification System for Fishermen	TNSCST	7000

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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
Computer Science and Engineering	Advanced Excel Training	Sri Lakshmi Saraswathi Exports	5000	20
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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
Blood Donation Camp	YRC, RRC with GH, Tiruchengode	6	100
Blood Identification Camp	YRC,RRC with GH, Tiruchengode	6	50
Orientation Camp	YRC, RRC with GH, Tiruchengod	6	100
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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
SEN SAT 2020	Scholarship	Sengunthar Charitable Trust and IEI Erode	240
SEN MAT 2020	Scholarship	Sengunthar Charitable Trust and IEI Erode	267
SEC - IIC COVID 19	Award	Sengunthar Charitable Trust and IEI Erode	1117
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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 activites	Number of students participated in such activites
Government scheme	NSS Unit - I II	Paid Tribute to Missile Man Dr. A.P.J. Abdulkalam	50	350
Government scheme	NSS Unit - I II	Independence Day Celebration	70	150
Government scheme	NSS Unit - I II	"One Student, One Tree" - Tree plantation	70	150

Government scheme	NSS Unit - I II	Fit India Movement - Fitness Pledge	2	200
Government scheme	NSS Unit - I II	Orientation - I	2	100
Government scheme	NSS Unit - I II	Orientation - II	2	100
Government scheme	NSS Unit - I II	NSS Day observed	2	200
Government scheme	NSS Unit - I II and UBA	Swachhata Hi Siva - "Cleanliness is Service" Campaign	1	200
Government scheme	NSS Unit - I II	Fit India Plog Run -Unity Run/ Unity Pledge - RashtriyaEktaDi was Pledge Taken	70	300
Government scheme	NSS Unit - I II	Vigilance Awareness Week -Integrity Pledge Taken	70	300
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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
No Data Entered/Not Applicable !!!			
No file uploaded.			

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	Loan Activities for House Buildings	New Oppurtunity Consultancy private limited	25/11/2019	14/01/2020	Ruban Kumar R
Inplant Training	Summer Training	33Hertz Structural Engineers Consortium	27/12/2019	31/12/2019	Anjana Mohan
Project work	Increasing Boiler	Tamil Nadu Newsprint	01/01/2020	31/01/2020	Manoj Prabakar.T

	Efficiency by using Blow down heat	and Papers Ltd			
Project work	CFD Analysis of Boiler inview of Boiler tube Failures	Mettur Thermal Power Station-II	16/12/2019	20/02/2020	Vijay.V.B
Project workk	CFD Analysis of Boiler inview of Boiler tube Failures	Mettur Thermal Power Station-II	16/12/2019	20/02/2020	Kathiresan.G
Internship	Quality Control	PEPS Industries Private Limited	13/02/2020	27/03/2020	Kannan.D
Internship	Packaging	PEPS Industries Private Limited	13/02/2020	27/03/2020	Karthik.T
Internship	Quality Control	Renault Nissan India pvt Ltd	13/02/2020	27/03/2020	Sasidharan.V
Internship	Quality Control	Lakshmi Precision Tools	02/03/2020	21/03/2020	Elavarasan.M
Internship	Tapping	Lakshmi Precision Tools	02/03/2020	21/03/2020	Kalaiarasan. A
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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
Lab Tech ,SIDCO Industrial Estate(Gunidy), Chennai	18/12/2019	Students 'visits and in-plant training at the LT StUDENTS' Project work at the LT Faculty training at the LT Guest lectures at SEC by the LT personnel and Extension lectures by the faculty of SEC	50
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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
500000	252933

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Others	Newly Added
Classrooms with Wi-Fi OR LAN	Existing

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4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
CAMPUS ILIB	Fully	6.0.8	2008
PALPOP	Fully	6.0.8	2019

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	36603	8526398	172	75170	36775	8601568
Reference Books	1037	333352	5	4660	1042	338012
e-Books	4255	0	0	0	4255	0
Journals	45	66056	66	93477	111	159533
e-Journals	150	0	100	0	250	0
Digital Database	150	0	0	0	150	0
CD & Video	1278	0	0	0	1278	0
Library Automation	0	0	0	0	0	0
Weeding (hard & soft)	0	0	0	0	0	0
Others(specify)	0	13570	0	0	0	13570

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.Venkatesh	PN Junction Diode Introduction	PM's E-Learn Youtube	26/03/2020
Dr.C.Venkatesh	PN Junction Diode Operation	PM's E-Learn Youtube	27/03/2020
Dr.C.Venkatesh	PN Junction Diode Characteristics	PM's E-Learn Youtube	28/03/2020
Dr.C.Venkatesh	Zener Diode	PM's E-Learn Youtube	30/03/2020
Dr.C.Venkatesh	Rectifiers	PM's E-Learn Youtube	31/03/2020
Dr.C.Venkatesh	Full-wave Rectifier	PM's E-Learn Youtube	02/04/2020
Dr.C.Venkatesh	Half-wave Rectifier	PM's E-Learn Youtube	01/04/2020
Dr.C.Venkatesh	Bipolar Junction Transistor Introduction	PM's E-Learn Youtube	21/04/2020
Dr.C.Venkatesh	Bipolar Junction Transistor Operating Modes Configurations	PM's E-Learn Youtube	28/04/2020
Dr.C.Venkatesh	Bipolar Junction Transistor	PM's E-Learn Youtube	04/07/2020

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/ GBPS)	Others
Existing	680	12	680	1	1	2	7	60	0
Added	20	0	0	0	0	8	0	100	0
Total	700	12	680	1	1	10	7	160	0

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

100 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
Engineering courses	https://youtu.be/R8xw2C-xZeA;

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 facilites
1500000	1136270	15000000	14972465

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)

The infrastructure pertaining to physical, academic and support facilities in college are regularly maintained by Dean Planning and Development to ensure that they are of maximum benefit to the students as well as teaching and non teaching staff. Campus Supervisor and his team members deputed to ensure maintenance of the campus under Dean Planning and Development. There are various committees like Library, Sports, Website Development, Gardening etc. to ensure proper maintenance and upkeep. Suitable budget is allocated every year for the maintenance of various facilities. The various committees meet regularly to monitor the optimum use of infrastructure which is accessible to the students and staff of the college. Most of the lectures take place in classrooms with latest teaching aids. This is to ensure usage of new audio visual pedagogical techniques during the teaching process. The college has a Technical Assistant and Lab Assistants and Lab Attendants to ensure proper upkeep of the various labs including computer center. The College has a Central Library with state of the art facilities with a Digital Library, Research Centre, Back Volume Centre, Knowledge Resource Centre and Board Room. A Computer Lab has been set up to be used by various departments. Students make extensive use of the facility for reading and research. The campus also offers facilities such as Cafeteria, Common Room and Gymnasium. A dispensary with doctor and nurse is available in the campus for first aid. Both the Library and administration section of the college have undergone computerization. The library is fully digitized and is open even after class hours. It has computer terminals with internet facility and large reading spaces. A regular update on new additions is provided by the library. A library committee works regularly to oversee the functioning of the library and various other committees' coordinate with each other to enable the students to get maximum exposure and participation and also to avail all the facilities provided by the college. Sports and Games is an internal part of the college and coach is available for the students – to train them in Table Tennis, Foot Ball, Volley Ball, Cricket and also indoor games. As a highlight of the institution, it has Solar panels and garbage segregation in the hostel to take care of the environmental needs. An eco friendly environment is of prime importance in the college.

http://scteng.co.in/documents/IQAC/Procedure%20and%20Policies.pdf

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	Sengunthar Charitable Trust	93	1695000
Financial Support from Other Sources			
a) National	Central Sector Scholarship Scheme , Minority Scholarship Scheme	44	440000
b)International	0	0	0

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

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Remedial Coaching for Slow Learners	07/10/2019	120	Faculty Members
Students Induction Programme	02/09/2019	150	Aravind Tirunavukkarasu, Director - CR
Personal Counselling	25/09/2019	10	Senior Faculty Members
Mentoring System: Tutor Ward Meeting	11/10/2019	153	Assigned Faculty Members

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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 passedin the comp. exam	Number of studentsp placed
2019	Career Guidance Scheme	60	150	2	125

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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
No Data Entered/Not Applicable !!!		

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Nameof	Number of	Number of	Nameof	Number of	Number of

organizations visited	students participated	stduents placed	organizations visited	students participated	stduents placed
TechVolt, TechVolt, ICT Software, TDS, Voleo,Kay Jay, Vanitycase,Trigo, Autotex,Peps mattress, VisionaryRCM,CSS Corp, FirstSource	486	118	TCS	20	1

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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
2020	2	B.E	ECE EEE	Sengunthar Engineering College	M.E MBA

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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
GATE	1
Any Other	20

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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
Athletics	Zonal	18
Table Tennis	Zonal	13
Kho Kho	Zonal	18
Hockey	Zonal	18
Circket	Zonal	16
Chess	Zonal	7
Ball Badminton	Zonal	20
Basket Ball	Zonal	24
Badminton	Zonal	8
Annual Day Cultural Celebrations	Intra Institutional Level	52

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5.3 – Student Participation and Activities

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)						
Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
No Data Entered/Not Applicable !!!						
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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)

College creates a platform for the active participation of the students in the various academic administrative bodies. This empowers the students in gaining various skills apart from leadership and Headship qualities. Out of 43 Committees/Cells/Groups etc in the institution, students are actively involved as a key representative in 20 Cells, like Women Empowerment Cell, Green Club, Entrepreneurship Development Cell, Creativity and Innovation Cell, Toastmasters Club, Center for Excellence, Texas Innovation Lab, Tamil Mandram, Povrnami Kavirangam, Womens Forum, Blood Donors Club, NSS, YRC, RRC, Eco Club, Class Committee, Activity Based Learning Cell etc. Each Cell has a separate mode of selection and function based on the need and importance of the Cell/Committee/Forum. Few key activities of the Students in the Committees are ? The student members bring forward the views and suggestions of the entire class with respect to the faculty, subjects, syllabus and other things related to the class. ? The composition of student members is of two topper, two average and two slow learner (the one who has more integrity with other students) of each section are nominated as class representatives, for all the sections from I Year to Final Year. ? The Class Committee helps students to share ideas, interests, and concerns with lecturers and principal. They often also help raise funds for wide activities, including social events, community projects, helping people in need and college reform. ? Various programs like paper presentations, workshops and seminars are organized by these bodies every year. Apart from that we had formed Library committee for improving the reading habits of the students, Cultural Committee for students Extra Curricular Skill Development, for Discipline, Anti Ragging Committee, for Physical Fitness, Sports Committee The funding for various activities of the internal college bodies is provided by the College Management.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

CERTIFICATE OF REGISTRATION OF SOCIETIES : Sl.No.: 119/2010

5.4.2 – No. of registered Alumni:

5674

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

70940

5.4.4 – Meetings/activities organized by Alumni Association :

Yearly a General Body Meeting is organized during the Graduation Day and nominate the Officer Bearers for the Association. Apart from this a regular visit by the Alumni for discussion with the Students about the present industrial scenario and also utilize them for the Placement opportunities 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)

Institution framed a new system to give authority to all the various functionaries to work towards decentralized governance system after getting Autonomous. As it is, various stakeholders of the institution are the members of the statutory bodies and the stakeholders meetings are conducted regularly. The Governing Body delegates all the academic decisions based on the policy to the various monitoring committees headed by the Principal in order to fulfil the vision and mission of the institution. Faculty members are given representation in various committees / cells and allowed to conduct various programs to exhibit the abilities of both students and faculty members. The needed skills of Life Skills, Employability Enhancement Courses are incorporated in the new curriculum in order to encourage the students to develop the skills need of the hour. Students are empowered to play an active role as coordinator for curricular, co curricular and extracurricular activities. Our Institution's focuses on advanced research in the areas of science, engineering and technology and has a Centre of Excellence in ECE department. Every department is encouraged to have at least one such centre. Both the faculty members and the students alike contribute to the research, development and innovation with the help of the centre. The management gives full support in terms of finance and human resources to encourage application of patents submit research proposals, publications, participation in conferences and workshops, etc. The Management approves and encourages the students and faculty members to learn Massive Open Online Courses (MOOCs) courses in the Autonomy. MOOC providing a flexible way to learn new skills and advance both the students and the faculty members career development and deliver quality educational experiences to the students at Autonomous.

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

Yes

6.2 – Strategy Development and Deployment

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

Strategy Type	Details
Curriculum Development	Academic Council Committee is framed for the curriculum development after getting Autonomous status. A new curriculum is introduced to the students with Choice Based Credit System and the assessment is done through feedback from the stakeholders, students, alumni, subject experts from reputed institutions and experts from the industry. The suggestions received from them are reviewed by the Committee. Relevant suggestions are considered for inclusion in the curriculum. In the process of developing the curriculum, care is taken to ensure adherence to norms and guidelines prescribed by the Anna University, Chennai, the AICTE and the UGC. The finalized curriculum is

	reviewed in the department wise Boards of Studies and the recommendations are listed at the Academic Council meeting for approval
Teaching and Learning	All the faculties of the institution are encouraged to train in the modern and innovative methods of teaching and motivated to attend various programmes related on pedagogy. The most commonly used teaching and learning methods at the institution are lecture, Power Point Presentation, Seminar, demonstration, drill and practice, peer teaching, team teaching, internship, projects, surveys, industrial visits, group discussion, quiz, games and role play. The innovative teaching learning methods like Learning Management System (LMS) is effectively implemented to enhance the teaching- learning process. In addition to classroom learning, aids like NPTEL, EDUSAT, e-journals, etc. are also available for the students to facilitate learning.
Examination and Evaluation	The Office of the Controller of Examinations executed for processing the Examinations and Evaluation process. Continuous Internal Assessments (Three Internal Assessments) and End Semester (One End Semester) Examinations are conducted to evaluate the progress of the students. End semester Examinations for theory, practical and Lab embedded theory courses the Question paper is being prepared by both External and Internal faculty. Two sets of Question papers are prepared by External and where as one set of Question Paper is set by internal faculty in the ratio of 2:1. Question Papers are scrutinized by department heads. Evaluation of answer scripts is done by both external and internal faculty members in the ratio of 2:1. Further process includes conduct of examinations, publishing results, revaluation/photocopy of all UG and PG programmes in both semesters Odd and Even.
Research and Development	The college has a separate Research and Development Cell which take up the activities related to Research and Innovation. The committee is headed by the Dean RD. All the faculty members have been encouraged to apply Research Proposals to various funding agencies like AICTE, DST, UGC, CSIR, ICSSR,

		etc., CoE (Centre of Excellence) in the Department of Electronics and Communication Engineering has been utilized by the companies to test various models. TEXAS Instruments has established the Innovation Lab in the department of ECE. National Cyber Defense Research Centre has approved our institution as a Nodal National Resource Center. Besides, Publications of Research findings in Conference and Journals are mandatory for PG students. Faculty member are encouraged and motivated for their Research Publication during the Annual day programme by offering Certificate, Shield and Cash Prize. Few innovative projects are furnished for R2M (Ready to Market) through Entrepreneurship Development Cell in association with EEDISSIA.
	Library, ICT and Physical Infrastructure / Instrumentation	The college boasts a well stocked and digitalized central library with college and Department wise division to ensure easy, quick and efficient access to desired data. NPTEL (National Programme on Technology Enhanced Learning) web courses and video courses are being used by staff and students to enhance their skills. It Joined as an institutional member of DELNET for sharing resources with other libraries to enhance teaching – learning process. It connects all libraries of the technical institution approved by AICTE, New Delhi. The College library offers the below listed tools for the maximum access to the library collections: OPAC software fir library management, Electronic Resource Management Package for Journals, DSpace, Library Website, Inhouse/Remote Access to epublications, Internet Facility, Book Bank Scheme for SC / ST students ICT. LCD Projectors, Slide Projectors and Overhead Projectors are available in the departments to promote Computer aided Teaching Learning. Central Library Committee provides guidelines for improving the quality of library resources and for effective usage.
	Human Resource Management	The management assess adequate human power requirement. Recruitment and Selection of the faculty members are based on the guidelines provided by AICTE, New Delhi and Anna University,

	Chennai. Biometric Attendance system is practiced for all faculty members in the institution. Regular feedback and Counseling from the faculty members are obtained for the development of Human Resource Management. Career guidance support by the senior faculty member to junior faculty member is encouraged in the Institution. Faculty members are deputed to attend Faculty Development Programmes, Conference / Seminar / Workshop participation, Presentation of research papers, Industrial visit through IIPC, etc., to enhance the quality in teaching. Faculty members are also encouraged to attend MOOC Courses, Publications in higher end journals like SCI, SCOPUS. Faculty members are recognized for their contributions and achievements during the Annual day programme. Welfare Schemes are available for the faculty member in the campus like EPF, Group Insurance, Concession rate food in college hostel, SIWEF, Festival Advances, Earned leave Medical leave etc., free transportation for all faculty members is one of the Effective systems of Performance Appraisal through Annual Performance Evaluation Report.
Industry Interaction / Collaboration	Various MoU's are signed for the academic development and students' professional growth. Industry Interaction is integrated for all UG and PG Programmes. Membership with EEDISSIA (Erode District Small Industries Association), CII (Confederation of Indian Industry) and MoUs signed with leading companies are beneficial to the students community. With exchange of expertise and a proper monitoring system is evaluated to measure through IIPC. Guest lecturers are being conducted by the Industrial Experts. Effective function of Entrepreneurship Development Cell is organizing various Programmes and Exhibitions. Study tours are conducted for students to visit industries. Alumni placed in reputed companies and entrepreneurs are invited for informal discussion with the students. A senior faculty member is taking care of the industrial associations integration and activities through various activities Admission of Students. The students are admitted according to the Anna

	University / Tamilnadu Government / AICTE Norms.
Admission of Students	Admissions of students in various Programmes are done through a Single Window System (SWS) and Management Quota System (MQS). Admission through SWS is done by the Tamilnadu State Government and MQS is also based on merit following the norms prescribed by Anna University and Government of Tamilnadu. The college ensures wide publicity in admission process by advertising in local, regional and national newspapers, local and regional TV channels, participating in the educational fairs and providing updated information through the college website and SECAPPS mobile application

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

E-governace area	Details
Planning and Development	An excellent system is followed in this area under a Dean (Planning and Development), who take cares of both academic and physical activities
Administration	A common internal system is followed by the institution through intranet facilities for the effective administration of the institution
Finance and Accounts	This section is focus on Cash less transaction and operates online system, digital payment modes etc.
Student Admission and Support	Separate Android Application is available for the students to know their activities and performance towards the examination to avoid paper banks.
Examination	Examinations of Internal Examination are conducted at regular intervals through Internal Examination Cell. End Semester Examinations are conducted through Controller of Examination Cell of our college. 1. Application Form Description: used to enter the name, address, DOB of student after verifying the 10th and 12th mark sheet. The passport size photo of the student will be stored in the server. Updation: updated during every year beginning after admission. 2. Exam Application Form Description: To enter the subjects for individual students. Updation: updated before the end semester examinations. 3. Exam Fees Description: To specify the fees for subject,

| | application, and mark sheet. Updation: updated before the end semester examinations. 4. Time Table Description: Used to put the schedule for the end semester examinations. Updation: updated at the beginning of every semester. 5. Hall Details Description: This form contains details of the hall and its number, row-wise and column-wise strength. Updation: updated if there is a changes in the halls. 6. Hall Plan Description: This Entry form is to enter the Halls needed for End Semester Examinations. Updation: updated during the starting process of the exam 7. Hall Chart Description: This Entry form to enter the place allotted for student during exams. Updation: updated during the starting process of the exam 8. Attendance Entry (Exam) Description: This Entry form used to enter the attendance for end semester examination for each subject. Updation: updated during each day of semester end examination 9. Dummy Number Entry Description: Auto Generated dummy number will be allotted for each student after the Semester end examinations. Updation: updated after the end of end semester examination 10.Exam Cell: Reports Description: Entry form to take the various Exam Related Reports. 11.Question Paper Issue Description: This form displays the strength of students subject wise to issue question paper and Report will be generated for pasting label in question paper cover includes exam details. Updation: updated during the starting process of the exam 1. Exam Lab attendance Description: Entry form to feed the student attendance for semester end practical exams. Updation: Updated during the practical exams. 2. External Mark Entry a.Theory Description: Used to enter the theory mark of the student subject wise. Updation: updated during the mark entry at end of semester exam valuation. b.Practical Description: Used to enter the Practical mark of the student. Updation: updated during the time of mark entry at end of the semester exam valuation. |

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.M.Sakthivel	NexGen Technologies	Sengunthar Charitable Trust	500
2020	Dr.B.Suajtha	NexGen Technologies	Sengunthar Charitable Trust	500
2020	Dr.G.Jayamurugan	NexGen Technologies	Sengunthar Charitable Trust	500
2020	Mr.K.Ashokkumar	NexGen Technologies	Sengunthar Charitable Trust	500
2020	Dr.S.Radha	NexGen Technologies	Sengunthar Charitable Trust	500
2020	Dr. C. Venkatesh	NexGen Technologies	Sengunthar Charitable Trust	500
2020	Dr.C Aarathi	NexGen Technologies	Sengunthar Charitable Trust	500
2020	Mr.A Rahul	NexGen Technologies	Sengunthar Charitable Trust	500
2020	Mr.S.Murugesan	NexGen Technologies	Sengunthar Charitable Trust	500
2020	Mrs. N.Krithika	NexGen Technologies	Sengunthar Charitable Trust	500
		[View File]()		

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	Campus Connect Programme	Campus Connect Programme	12/06/2019	14/06/2019	75	10
2019	Yono SBI Awareness Programme	Yono SBI Awareness Programme	27/11/2019	29/11/2019	50	5

2020	SCI Lab Workshop	SCI Lab Workshop	13/02/2020	13/02/2020	75	10

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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
Faculty Development Program on Organised by SIIMS Standalone Business School, Pollachi	1	07/06/2020	12/06/2020	5
Online FDP on "Technological Advancements In Mechanical Engineering" organised by Balaji Institute of Technology Science, Warangal	1	29/06/2020	03/07/2020	5
Faculty Development Programme on Renewable Energy Resources by Panimalar Institute of Technology	1	08/06/2020	12/06/2020	5
AICTE Training and Learning (ATAL) Program for Faculty Development on Robotics	1	01/06/2020	05/09/2020	5
Faculty Development Programme organised by Sri Sai Ram Institute of Technology, Chennai in the title of Materials for	1	20/05/2020	24/09/2020	5

Thermal and Renewable Energy Research				
National Level FDP organised by Codegen IT Solutions in Association with P.B.Siddhartha college of arts and science, Vijayawada and Computer Society of India (CSI), Vijayawada Chapter	2	18/05/2020	22/09/2020	3
FDP On Insights into Quality Research and Innovation organised by Vivekanadha College of Engineering for Women	1	13/05/2020	20/05/2020	7
Online FDP Programme on "Evolution of TL process - Post COVID 19" Organised by Bharath Institute of Science and Technology	1	11/05/2020	15/05/2020	5
FDP on Concepts of Thermodynamics, Fluid Mechanics and Dynamics for Mechanical Engineers Organised by SRM Valliammai Engineering College	2	11/05/2020	15/05/2020	5
Faculty Development Programme organised by Tagore Institute of Engineering and Technology in	3	30/04/2020	08/05/2020	5

association with IIT Bombay in the title of MOODLE on Learning Management Session (LMS)

No file uploaded.

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
14	14	0	0

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Maternity leave with salary for the female faculty members • Free medical facility in the campus • Free transport facility for the faculty members • Foods for subsidized prices in the college hostel • Financial support to the faculty members for participation in Conference / Seminar / Workshop in National and International Level Programmes. • Teaching faculty members pursuing Ph.D. and research activities are encouraged with Onduty and usage of infrastructural facilities in the campus for their research activity • Loan at very low interest through SIEWF Scheme for the faculty members • Facilities to enhance the earned leave if not availed • Cash Awards and certificate for the faculty members publication in Anna University Referred Journals • Cash Award during the Annual day celebration to the teaching faculty members for those who produce Cent Percent result at	Free medical facility in the campus • Free transport facility for the faculty members • Foods for subsidized prices in the college hostel • Loan at very low interest through SIEWF Scheme for the faculty members • Facilities to enhance the earned leave if not availed	• Wifi Enabled Campus • Dispensary in college campus to look after the medical needs • College has a tie up with Sumathi Child Care Centre, Tiruchengode for emergency medical treatment • One Sovereign Gold Coin and "VIT Chancellor Award" for the best outgoing students • Sengunthar Charitable Trust Scholarship for poor students • Sports Scholarship by SCT • Free transport for all students • Ramps for Physically disabled students • Medical Insurance for all students • Fee waiver schemes • Separate Gym and recreation centre for Girls and Boys • Cash incentive for best performers during Annual day Sports day Programmes.

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 financial audit is with the support of Account Section Incharges under the supervision of Management Representatives and the external financial audit is don by the Institution Charted Accountant. annually for each financial year.

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
TNSCST, Entrepreneurship Development Institute of India, Ahmedabad	27000	Students Innovative Projects Organising Entrepreneurship Awareness Camp

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6.4.3 – Total corpus fund generated

10000000

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	BSCIC, Haryana	Yes	Internal Audit Committee
Administrative	Yes	Management Nominee	Yes	Management Representative

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

The college does not have a Parent – Teacher Association at present. College has MentorWard system in which a group of students is allotted to a faculty member in to care of all the issues related to the allotted students. A Mentor acts as a surrogate parent to the students. The communication with the parents regarding the attendance and other issues is taken care by the Mentor through Class Adviser. The meeting with the parents are also scheduled if requires. Dean Student Affair is the chief Mentor to coordinate the activities of Mentor Ward system

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

Various technical training programs in the domain are arranged by departments for their technical support staff to improve their competency levels. The few staff members are also sent outside for the training. Expenses incurred to attend the external programmes are sponsored by the Management

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

Our Institution has introduced various systems for the effective functions and result oriented concepts for the institutions upliftment and development. Few are 1. Learning Management System (LMS) 2. Finlands Education System (FES) 3. Communication Sill Improvement (CSI) 4. Analytical Application and Design Development (AADD)

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	Yes
c)ISO certification	Yes
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
2020	NexGen	20/03/2020	20/03/2020	21/03/2020	850
2020	Technical Discussion	06/03/2020	06/03/2020	06/03/2020	650
2020	Idea to IPR	08/01/2020	08/01/2020	10/01/2020	175
2019	Conversation of Student as Studentpreneur	18/12/2019	18/12/2019	20/12/2019	100
2020	Tech Symposium	20/09/2019	20/09/2020	21/10/2020	700

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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
Feminine Hygiene	21/08/2019	21/08/2019	232	0
International Women's Day Celebration	07/03/2020	07/03/2020	232	0

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

Percentage of power requirement of the University met by the renewable energy sources
1. "SOLAR INVERTER" is designed and installed at the department of Electrical and Electronics by our final year B.E. – EEE students. 2. "WIND MILL SYSTEM " is also designed and installed at our college to harness the renewable energy source by our final year B.E. – EEE students. 3. Renewable Energy (Solar Energy) Utilization 4. Four 10W LED Solar Street Lights in Sengunthar Engineering College Campus Total Cost: Rs. 10,8000/ (Date of installation:03.11.2010) 5. Current – two 100 KW Transformers are available in the Campus for Electric Consumption apart from 200 KW available at Hostel Campus 6. Generator Capacity 15 KVA , 125 KVA, 62.5 KVA Cummins 125 KVA

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	709

Ramp/Rails	Yes	709
Rest Rooms	Yes	709
Scribes for examination	Yes	709
Special skill development for differently abled students	Yes	1

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	14/09/2019	4	Swachhata Hi Seva Campaign	Cleaning of unwanted plastic and disposable wastes	52
2019	1	1	03/10/2019	1	Fit India Plog Run at Kosavampalayam villages	Created awareness among the the people about the Cleanliness and healthy living	150
2020	1	1	11/03/2020	1	Blood Identification Donation Camp	Blood SPonser for Needy	75
2020	1	1	14/04/2020	1	Covid – 19 Awareness video created and published in youtube. More than 760 members viewed the video. Link: https://yout	Covid – 19 Awareness to the common pepples and students	5

2020	1	1	02/04/2020	1	Our secretary has contributed the basic groceries to the needy people of Barathi Nagar, Near to Our College.	Basic groceries supplied to needy people	5
2020	1	1	20/07/2020	1	Video on Guidliness for Applying Tamil Nadu Engineering Admission 2020 is created and published in Youtube. More than 260 students viewed the video. Link: https://youtu.be/XCOoSy0b63M	Guidliness given for the plus two students to apply TNEA2020 through online.	5

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7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
Academic Calendar	01/07/2020	A code of conduct and responsibilities for students are specified in the Academic Diary.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Effective Training on Values and Ethics	27/02/2020	27/02/2020	100
SRO incorporating	11/05/2020	15/05/2020	5

Universal Human values in Technical Education			
International Yoga Day	21/06/2019	21/06/2019	207
Paid Tribute Missile Man Dr. A.P.J. Abdulkalam	28/07/2019	28/07/2019	546
"One Student, One Tree" - Tree plantation	15/08/2019	15/08/2019	152
National Integration Day - Integrity Pledge	21/10/2019	21/10/2019	620
Unity Run/ Unity Pledge - Rashtriya Ekta Diwas Pledge Taken	31/10/2019	31/10/2019	634
Effective Training on Values and Ethics	11/05/2020	15/05/2020	5
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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

- Formation of Green Club: Creating awareness about environment and energy conservation. • Vermi composting Plant is established to decompose the biodegradable wastes generated at our college campus and also demonstrated to the students about the construction of plant. Solid waste such as fallen leaves and kitchen wastes are collected from the various point of sources and segregated according to their nature. Nutrient rich manure is produced from the biodegradable wastes by Vermi Composting Process. The vermi compost is used in the College garden. • Water Conservation: Rain Water Harvesting facilities are available in every building that helps to promote the ground water level. Instruction board was displayed to reduce the consumption and wastages of water. • Energy Conservation through awareness, Use of renewable energy-Solar lambs and wind enery, Efforts for Carbon Neutrality and Implementation of Swatch Bharat Abhiyan in College Campus • Promoting Paperless Environment and Plastic free campus • Water conservation: Students made sprinkler system for Greenery • Lawn Plantation is made in major places by the Campus and maintained to make campus as eco friendly

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Our Institution implements various best practices for the development of Students and Faculty Members. Out of those, we can submit SCI and AADD Concept as the best practices for the current year.

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

http://scteng.co.in/documents/IQAC/Best%20Practices.pdf

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

The Vision and Mission statement of our institution clearly pointed towards rural based education and development of the rural people at large. A value based education based on the curriculum of the University which combines with the core values attached for the improvement of the students. The institute which in the verge of completing 20 years, has a strong bonding with the local and rural people of Tamilnadu. The institute wishes to emerge as a Centre of Academic Excellence by providing students opportunities for teaching the subjects to earn the desired degree and also help them to gain knowledge and skills in subjects beyond the course to make the students ready for the present global job market and mould them to skilled professionals. The institute promotes nnovation, research and development for the faculty and students. Some projects are identified and the institute promotes and sponsors them to encourage their zeal towards research. Often the students come up with innovative ideas for startup which are funded by the Management through various lab equipments. For upgrading faculty skills the institution encourages and sponsors them for Ph.D., research, seminars, conferences. Publication of articles and papers and membership of professional bodies are supported by the Management. This has resulted in good number of publications to direct the institute to achieve its goal to become a centre of excellence. The institute also creates an enabling environment to foster research culture. The college makes information related to research and innovation available by circulating related notices. The institute organizes different activities to enhance the students' personality. Students are trained and groomed to enhance their Employability skills by imparting technical training, Soft skill, GD and Aptitude classes etc. to make the student, industry ready to face the current job market successfully. To upgrade their knowledge and enlighten them on the present trends of the technological advancements regular lectures by eminent professors and industrialists, seminars, workshops, quiz contests are conducted. Students who wish to pursue higher studies are given free GATE and competitive examination classes. Majority of students have emerged as a professionals of corporate houses. Apart from the above activities our institute offers a best in class of Entrepreneurship Activities in different dimension to bring out the entrepreneurial talents among the students through frequent organizing of Entrepreneurship Awareness Camp with the support of Entrepreneurship Development Institute of India, Ahmadabad and Sengunthar Entrepreneur Expo twice in a year. Some students have become entrepreneurs and established their own companies with the support of this cell. Also our institution gives priority to Co curricular and Extra Curricular activities and physical activities, such as Sports, Cultural, Yoga, and Meditation etc.

Provide the weblink of the institution
http://scteng.co.in/documents/IQAC/Institutional%20Distinctiveness.pdf

8.Future Plans of Actions for Next Academic Year

To work towards upgrading teaching, learning and evaluation process by using advanced tools. Advanced Online Resources shall be used to increase the curiosity in learning and inculcating self learning practice among the students with constitutes monitoring committee members.To apply for National Board of Accreditation to elevate the college status and to assure the quality education and research. To aim at a minimum of two international conferences conduction and national workshop conduction. To prepare and implement of Strategic Plan activities for improving Research and Development. To motivate the students to do at least 10 active projects per year. Innovative ideas of students are incubated for development and become patent. Entrepreneurship skills are to be encouraged among the students by providing more practical exposure through Entrepreneur Development Cell. To get approval of a R D centre for boosting research thirst of the students and the faculty members. Tie up with leading Industries to enhance

the placement activities. To offer an exclusive placement training to the all clear students of final year students to strengthen placement cell. To involve the Students to submit the projects under MSME-HI/BI Projects, My GOV Projects, TNSCST Projects, The FOSSEE (Free/Libre and Open Source Software for Education) project, SIH, Ideathan, etc. To motivate the faculty members to pursue Ph.D. programme in their domain for the growth of themselves and the Institution.