



Yearly Status Report - 2019-2020

Part A

Data of the Institution

Part A	
Data of the Institution	
1. Name of the Institution	S.A. ENGINEERING COLLEGE
Name of the head of the Institution	G.S.KUMARASAMY
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	044-26801499
Mobile no.	9444035504
Registered Email	saec@saec.ac.in
Alternate Email	principal@saec.ac.in
Address	Poonamalle-Avadi Road,Veeraraghavapuram, Thiruverkadu post
City/Town	CHENNAI
State/UT	Tamil Nadu
Pincode	600077

2. Institutional Status					
Autonomous Status (Provide date of Conformant of Autonomous Status)	17-Oct-2019				
Type of Institution	Co-education				
Location	Rural				
Financial Status	private				
Name of the IQAC co-ordinator/Director	Dr .N. Anusha				
Phone no/Alternate Phone no.	04426801999				
Mobile no.	9941165566				
Registered Email	saec@saec.ac.in				
Alternate Email	iqac@saec.ac.in				
3. Website Address					
Web-link of the AQAR: (Previous Academic Year)	https://saec.ac.in/wp-content/uploads/2019/11/AOAR_2018-2019.pdf				
4. Whether Academic Calendar prepared during the year	Yes				
if yes,whether it is uploaded in the institutional website: Weblink :	https://saec.ac.in/wp-content/uploads/2019/11/ACADEMIC-CALENDER-19-20.pdf				
5. Accrediation Details					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	A	3.11	2015	03-Mar-2015	02-Mar-2021
2	A	3.11	2018	04-Dec-2018	31-Dec-2024
6. Date of Establishment of IQAC			02-Jul-2014		
7. Internal Quality Assurance System					
Quality initiatives by IQAC during the year for promoting quality culture					
Item /Title of the quality initiative by	Date & Duration		Number of participants/ beneficiaries		

IQAC		
No Data Entered/Not Applicable!!!		
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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
No Data Entered/Not Applicable!!!				
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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)

• IQAC has made contributions to get autonomy status and autonomy was granted on 17.10.2019 • IQAC has contributed to submit IIQA , on successful submission of IIQA ,SSR and DVV clarifications were completed in the academic year 201920. • College was granted NAAC A grade based on the Transition Autonomous colleges from 2019 to2024 • After grant of autonomy ,implemation of full fledged CoE office with supporting staff and faculty • Compliane report for NBA Accreditation to EEE Mechanical departments was submitted and grant of extension was given by NBA to MEchancial EEE departments • Reframing of ISO doceuments based on Autonomy was carried out

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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
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To obtain Autonomy status	Our Institution was granted Autonomy status for a period of 10 years
NAAC Accreditation	NAAC has granted A grade base on the autonomoy status
NBA accreditiaotn for EEE & Mechanical	NBA has granted accreditation up to 30.6.2021 based on the compliance report submitted
ISO implementation based on Autonomy	ISO standards were successfully incorporated
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14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body	Meeting Date
Academic Council , Governing Council	04-Nov-2020

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

Yes

Date of Visit

27-Aug-2019

16. Whether institutional data submitted to AISHE:

Yes

Year of Submission

2020

Date of Submission

17-Feb-2020

17. Does the Institution have Management Information System ?

Yes

If yes, give a brief descripton and a list of modules currently operational (maximum 500 words)

Yes. The institution has a MIS named Insproplus. It has 19 modules and each module is sectioned into Master, Operation and Report headers. The master module take cares of master setting activities that usually been performed once for a task. Operation module is the important modules that takes care of day to day activities. The operations such as mark entry, attendance entry, timetable entry etc., are performed by the individual staff, process owners, HR personnel, etc., finally, he important section is the Reports section where many reports are generated based on the data entered through operation modules. Almost all

the needed reports are generated by the reports section in all the modules

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
No Data Entered/Not Applicable !!!			
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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
No Data Entered/Not Applicable !!!				
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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 !!!		
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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	CSE	14/06/2019
BE	ECE	14/06/2019
BE	EEE	14/06/2019
BE	Mechanical	14/06/2019
BTech	Information Technology	14/06/2019
BE	Civil	14/06/2019
MBA	Master of Business Administration	14/06/2019
MCA	Master of Computer Applications	14/06/2019
ME	Communication Systems	14/06/2019
ME	Embedded System Technologies	14/06/2019
ME	CAD/CAM	14/06/2019
ME	CSE	14/06/2019

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
Advanced Python Concepts(4 Days) (Silicon Software Services)	13/08/2019	162
Java Programming(5 Days) (Silicon Software Services)	03/09/2019	165
Python With Mysql(3 Days) (SA Techno Solutions)	20/08/2019	167
J2EE And Mean Stack(5 Days) (Silicon Software Services)	17/02/2019	165
Php Web Development(3 Days) (Eye Open Technologies)	28/01/2019	167
PYTHON Training,	21/08/2019	169
JAVA Training	27/08/2019	169
Raspberry PI with Python Programming	24/07/2019	101
PYTHON Training	17/12/2019	165
Industrial Automation	17/12/2019	101
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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	56
BE	Civil	81
BE	ECE	138
BE	EEE	30
BTech	INFORMATION TECHNOLOGY	164
BE	CSE	85
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	No
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 development and growth of any organization, to a large extent depends upon a well functioning feedback system. It requires a thorough preparation to initiate, and implement the feedback system. This college has been practicing many feedback systems accommodating all the stakeholders including staff, students, alumni and parents for many years to help the individuals and organization as a whole to improve the performance and effectiveness of the Institution . The Institution established Academic Council in order to ensure and analyse the academic excellence at student and faculty levels. Periodical analysis is made by Academic Council from the following: student performance, faculty performance in every semester, utilization of infrastructure and requirements for quality enrichment. The college maintains an IQAC as a quality consistence and quality enhancement measure. In supervision of IQAC, various departments and committees like Career Guidance, AntiRagging etc FACULTY Feedback is obtained from both the faculty members in our college and other institutions who serve as chief guests for conducting workshops, seminars and Faculty Development programs. PARENTS Parents are important stake holders of this system. Parents meeting is periodically conducted in this college and their suggestions are regularly obtained and analyzed. The following parameters accommodated in the feedback are student's progress, communication skills, Cocurricular and Extra curricular activities and transport facilities. STUDENTS

- Students' feedback on staff received through Class Committee Meeting. It is conducted before the commencement of Internal Exams. It is intimated in the classroom and six students from each class are invited to attend meeting. At the end of the semester, the meeting is conducted for all the students. • At the end of the semester, feedback is collected through online for all the subjects. • The following parameters are considered to obtain feedback from Class Committee Meeting. They are • Academic Content • Use of teaching materials • Timelines of practical work • Fairness of evaluations • Interaction with faculties • Computer Facilities • Library Facilities • ExtraCurricular Activities • Sports Facilities • Hostel ALUMNI The college conducts annual Alumni Meet on January 26th every year, in which suggestions and feedback is received from Alumni students. Feedback from industrial management, R D establishments and professionals is obtained through college website's feedback blog. The provided feedback data is presented to the Academic Council Meeting for necessary implementation. Whenever any alumni visit the college, feedback is taken. As the alumni is found to be the brand ambassador(s) of our institute, the feedback, of the alumni is given, due considerations. • The alumnus has active representation. • The recommendations made by the alumni are subsequently discussed and approved

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
No Data Entered/Not Applicable !!!				
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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
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2019	2251	344	172	27	199
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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
199	199	5	49	49	4
View File of ICT Tools and resources					
View File of E-resources and techniques used					

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

Yes, Our institution has Students Mentoring system (presently Mentor- Mentee) The college has since last several years practiced a system of mentoring called the Mentor- Mentee system, whereby a Mentor was provided to every ward to look after his/her academic and psychological wellbeing and also monitors class attendance and performance. Under the Mentor system, the full-time teachers of the college have been engaged as mentors of each class. Students of each class in the college are having a full-time teacher as their mentor. The classes, where there are huge numbers of students, have been assigned more than one mentor. The mentors are responsible for academic progress and psychological wellbeing of their mentees. They are also entrusted with the task of monitoring the attendance and academic progress of the students. They also provide primary psychological counseling to those who need them and refer them for more professional counseling, if required. The mentors maintain the biographic details of each individual mentee including educational background and socio-economic status. They also maintain record of their class attendance, class-performance and academic progress. The mentors use both formal and informal means of mentoring. The mentor system, apart from its formal part, also exists as a robust informal mechanism to boost inclusiveness, gender sensitivity and social responsibility of students

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
2595	199	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
197	199	Nil	Nil	34

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.P.Sevvel	Professor	Institute of Engineers, Best Project Award
2019	Dr. G. Kavya	Professor	IEEE Madras Section, Best Project Award
2019	Dr.G.H.Kerinab Beenu	Professor	10th National Teachers Day award-2019 Senior

Educator Scholar Award, National Foundation for Entrepreneurship Development

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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	I year PG Courses	Odd/Nov Dec2019	11/01/2020	11/02/2020
BE	I year	Odd/Nov Dec2019	11/01/2020	11/02/2020
MCA	PG courses	Odd/Nov Dec2019	30/11/2019	10/01/2020
MBA	PG Courses	Odd/Nov Dec2019	30/11/2019	10/01/2020
ME	PG Courses	Odd/Nov Dec2019	30/11/2019	10/01/2020
BE	UG Courses	Odd/Nov Dec2019	30/11/2019	10/01/2020
MBA	I year PG Courses	Odd/Nov Dec2019	11/01/2020	11/02/2020
MCA	I year PG Courses	Odd/Nov Dec2019	11/01/2020	11/02/2020
BE	All UG I year Courses	Even/April May 2020	31/05/2020	30/09/2020
ME	All PG courses	Even/April May 2020	31/05/2020	30/09/2020

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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
Nil	2595	Nil

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://saec.ac.in/wp-content/uploads/2021/04/CO-for-All-Department.xls>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the	Number of students passed in final year	Pass Percentage
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			final year examination	examination	
621	MCA	Master of Computer Applications	33	33	100
631	MBA	Master of Business Administration	117	117	100
402, 403, 405, 431	ME	CAD/CAM, Communication Systems, Computer Science and Engineering, Embedded System Technology	16	16	100
205	BTech	Information Technology	54	54	100
114	BE	Mechanical Engineering	173	173	100
105	BE	Electrical and Electronics Engineering	83	83	100
106	BE	Electronic and Communication Engineering	169	169	100
104	BE	Computer Science and Engineering	161	161	100
103	BE	Civil Engineering	77	77	100
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2.7 – Student Satisfaction Survey

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

<https://saec.ac.in/wp-content/uploads/2021/04/2.7.1-Student-Satisfaction-Survey.pdf>

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

Nil

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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
National	Dr.P.Sevel	Best Project Award	26/06/2019	Institute of Engineers
National	Dr. G. Kavya	Best Project Award	08/05/2020	IEEE

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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
No Data Entered/Not Applicable !!!				

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3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

22

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
No Data Entered/Not Applicable !!!		

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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
Academic Professional ICON award	Dr.P.Sevel	Institute of Engineers	26/06/2019	Best Project Award
AUTONOMOUS CAR	Raghu U, Mohamed Ashraf Thaha, Hariharan V.C, Jagan P.	International ARM design Contest, conducted by Advanced Computing and Communication Society, Bengaluru.	20/06/2019	1st place and Received Rs.1,00,000
IOT Enabled Design And Fabrication Of	Dr. G. Kavya , Janani R. , Keerthana TRS ,	IEEE Madras Section	08/05/2020	Best Project Award

Wheelchair Cum Stretcher With Patient Monitoring and Home Automation	Reena Joseline A , Prasanna Krishnan P			
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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
Rural Entrepreneurship Development cell	National Rural Entrepreneurship	Mahatma Gandhi National council of Rural Education	REDC	Training, Placement, Personality development, Technology, Entrepreneurship and Rural engagement	02/10/2019
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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	1
Electronics and Communication Engineering	2
Information Technology	1
Humanities Science	3
Master of Business Administration -MBA	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)
National	Mechanical	1	Nil
National	Master of Business Administration -MBA	3	Nil
International	Civil	1	0.16
International	Mechanical	9	Nil
International	Electronics and Communication Engineering	19	Nil
International	Electrical Electronics Engineering	2	0.91
International	CSE	16	Nil
International	Information Technology	24	7.24

International	Humanities Science	4	1.6
International	Master of Business Administration -MBA	1	Nil
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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	2
Electronics and Communication Engineering	7
Master of Business Administration -MBA	29
MCA	2
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3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
A SYSTEM FOR REMOTE MONITORING OF MULTIPLE BIO- SIGNALS USING MULTICORE FPGA	Published	201741041772	24/05/2019
IoT integrated solar based smart irrigation system	Published	202041005568	14/02/2020
Food Storage Container/01-00 Design Application	Published	297668	17/05/2019
Helmet with integrated camera	Published	319553-001	11/07/2019
Solar Parabolic Utensil	Published	318707-001	16/08/2019
Method For Automatic Health Prediction Using Machine Learning	Filed	202041021783	24/05/2020
Smart Remote Garbage Monitoring System Based On Iot	Filed	59268	13/12/2019
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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
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No Data Entered/Not Applicable !!!

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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
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No Data Entered/Not Applicable !!!

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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	10	169	62	7
Presented papers	20	Nil	1	25
Resource persons	1	4	3	Nil

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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)
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No Data Entered/Not Applicable !!!

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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

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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
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No Data Entered/Not Applicable !!!

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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
10th National Teachers Day	Senior Educator Scholar Award-	National Foundation for	300

award-2019	Dr.G.H.Kerinab Beenu	Entrepreneurship Development	
NEW INDIA LEARNNATHAN-ONLINE COURSE	NEW INDIA LEARNNATHAN 2020	ICT ACADEMY	250
Blood Donation Camp	Appreciation Letter	Lions Club of Bharat	84
Medical Camp	Appreciation Letter	Lions Club of Bharat	62
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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
No Data Entered/Not Applicable !!!				
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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 !!!			
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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
No Data Entered/Not Applicable !!!					
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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
Coovum Advanced Institute for Science and Engineering Research	Nil	Nil	Nil
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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
37365000	283452357

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Others	Existing
Classrooms with Wi-Fi OR LAN	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Existing
Video Centre	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Seminar halls with ICT facilities	Existing
Classrooms with LCD facilities	Existing
Laboratories	Newly Added
Class rooms	Existing
Campus Area	Existing
Seminar Halls	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
AUTOLIB SOFTWARE	Fully	6.2 (Web Based)	2006

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	55982	2492478	250	136977	56232	2629455
Reference Books	3047	171271	Nil	Nil	3047	171271
e-Books	41607	227813	10862	13570	52469	241383
Journals	663	2089913	114	322500	777	2412413
e-Journals	6	6433818	2	1229584	8	7663402
Digital Database	1	13299	1	694747	2	708046
CD & Video	7585	Nil	455	Nil	8040	Nil
Library Automation	1	101875	Nil	Nil	1	101875

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

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Mr.S.Prabhu	Introduction to Computer Networks	Youtube	03/11/2019
Mr.S.Prabhu	Network topology	You tube	03/11/2019
Mr.S.Prabhu	Basics of Cisco Packet Tracer	Youtube	03/11/2019

No file uploaded.

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	1099	62	1099	1	1	1	9	100	0
Added	13	0	0	0	0	0	0	0	0
Total	1112	62	1099	1	1	1	9	100	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
Introduction to Computer Networks	https://www.youtube.com/watch?v=VwN91x5i25g&list=PLBlnK6fEygRgMCUAG0XRw78UA8qnv6jEx&index=1
Basics Networking Commands	https://www.youtube.com/watch?v=VwN91x5i25g&list=PLBlnK6fEygRgMCUAG0XRw78UA8qnv6jEx&index=20
Basics of Cisco Packet Tracer	https://www.youtube.com/watch?v=VwN91x5i25g&list=PLBlnK6fEygRgMCUAG0XRw78UA8qnv6jEx&index=21

4.4 – Maintenance of Campus Infrastructure

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

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
55918500	63085262	43924500	68878765

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 college ensures optimal allocation and utilization of the available financial resources for maintenance and upkeep of different facilities by holding regular meetings of various committees constituted for this purpose and using the grants received the college as per the requirements in the interest of students. Laboratory- Record of maintenance account is maintained by lab technicians and supervised by HODs of the concerned departments. Other measures to maintain laboratories are as follows: The calibration, repairing and maintenance of sophisticated lab equipments are done by the technicians of related owner enterprises. Centralized computer laboratory has been established and maintained in the college. Computer maintenance through well trained technical staff is done regularly and non-repairable systems are disposed off. Library- To promote a spirit of continuous learning among its students, we assure peaceful and enriching hours in the Central Library. Air conditioned central library that has a seating capacity of 300. In this fully automated library, students and staff members can search the books by author, title, Acc. No. Publisher or subject heading and their availability. Our Central Library is an institutional member of prestigious libraries such as the DELNET, AICTE - ELSEVIER, AICTE - IEEE Delhi. Sports: Regarding the maintenance of indoor games like Badminton, Table Tennis, Chess Carom, Gym Fitness Equipment and outdoor games like Foot ball, Cricket, Volley ball, basket ball etc. college sports coaches consult the management staff and based on allocated fund maintain the equipments. Classrooms- At the departmental level, HODs submit their requirements to the Principal regarding classroom furniture and other. The college development fund is utilized for maintenance of furniture and other electrical equipments. With the help of the full time sweepers cleanliness of class rooms is maintained. A complaint register is maintained in office in which students as well as faculty can register their problems which are resolved within a set time frame. Students are sensitized regarding cleanliness and motivated for energy conservation by careful use of electricity in classrooms. There are technicians, masons, plumbers, carpenters deputed by management who ensure the maintenance of classrooms and related infrastructure. Classrooms, Staffrooms, Seminar halls and Laboratories, etc are cleaned and maintained regularly by staff assigned for each floor. Wash rooms and rest rooms are well maintained. Dustbins are placed in every floor. The Green Cover of the campus is well maintained by a full time gardener. Optimum working condition of all properties/ equipment on the campus is ensured through annual maintenance contracts. Transport The College has a fleet of 30 buses to transport students and staff from various parts of the city and its neighborhood areas to the College and back home Transport facility will be arranged to every student. Every student is expected to avail the transport facility to enable him/her to be punctual to come to the College. Buses have been cleaned by the drivers and maintained by the transport Incharges.

<https://saec.ac.in/resources/>

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	Sakunthala Ammal Merit Scholarship	59	1191000
Financial Support from Other Sources			

a) National	Nil	Nil	Nil
b) International	Nil	Nil	Nil
No file uploaded.			

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

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Remedial coaching	22/07/2019	486	All Faculty
Career counseling	03/09/2019	1097	Alumni and Domain Experts from Industry
Bridge courses	15/07/2019	206	HS Faculty
Personal counselling	18/09/2019	2	Counselor
No file uploaded.			

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	Training program to GRE/ TOFEL / IELTS Career Counselling by Experts and Alumni	Nil	1097	Nil	689
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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
107	107	5

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
No Data Entered/Not Applicable !!!					
View File					

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

Year	Number of	Programme	Department	Name of	Name of
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	students enrolling into higher education	graduated from	graduated from	institution joined	programme admitted to
2020	1	BE	Civil Engineering	VIT(Vellore Institute of Technology)	M.Tech. Structural Engineering
2020	1	BE	Mechanical Engineering	Anna University	M.E. (Manufacturing Engineering)
Nil	1	BE	Mechanical Engineering	University of Windsor	M.Eng. Industrial Engineering
No file uploaded.					

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
No Data Entered/Not Applicable !!!	
View File	

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

Activity	Level	Number of Participants
Basketball tournament(Men) on 17.09.2019	Institution	192
Basketball tournament(Women) on 21.09.2019	Institution	96
Tennis tournament(Men) on 21.09.2019	Institution	30
S.A.Trophy state level inter college tournament from 20.02. to 22.02.20	State	857
Annual Sports day	Institution	320
No file uploaded.		

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
Nil	nil	Nil	Nil	Nil	Nil	nil
No file uploaded.						

5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

ACADEMIC ROLES: Class Committee: To improve the teaching-learning processes class committee is formed comprising the student members apart from the office bearers from the Faculty. The committee holds meetings 3-4 times a semester to

discuss the teaching learning processes and other academic and non-academic issues. During such meetings student's members are free to express their opinions, difficulties faced, if any and also suggestions to improve the overall ambience of learning. Alumni committee: Alumni are elected as Executive members of this committee to be a part of the running of the Alumni association .They do take active part along with the Faculty office bearers of the Alumni association in conducting the meetings every year. Alumni were invited for Lecture in the campus to make the students aware of the latest trends and also to guide the in their career. Alumni do take part in DAC meetings and offer their valuable suggestions on academic improvements. ADMINISTRATIVE ROLES: Anti-Ragging Committee: Students representatives were formed to look into ragging problems, if any, and confidential reporting to the committee coordinators Women Empowerment Cell: Girl students do participate in various programs organised by the Institution towards women empowerment so that these students will be aware of societal issues that are prevalent on the day and also learning about various empowerment strategies. Professional Societies: The institute has several professional societies under various departments and students are members of such society and do involve themselves in the administration of such committee. • ICI student chapter • Computer Society of India (CSI) • Institution of Engineers India Ltd

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The Alumni provide a strong support to our institution. S.A Alumni Association was formally inaugurated in the year of 2008 which had its first batch with an intention to bridge the gap between Alumni and the institution for the mutual benefit. Alumni Association is administered by an Alumni Committee. The alumni association is very active in promoting interactions and camaraderie among the alumni, staff and the management. Besides helping the alumni in all possible ways, it also lends its support to the college to achieve its cherished goals, its vision and mission. Alumni association of the Department has been playing a vital role in developing the student's knowledge. Alumni are elected as Executive members of this committee to be a part of the running of the Alumni association .They do take active part along with the Faculty office bearers of the Alumni association in conducting the meetings every year. An interaction program between the alumni and the students is being conducted every year on January 26. During this program career guidance towards the employability of students are discussed. Apart from Various technical skills desired by the employer at different domains, are also discussed for the benefit of the students. The profile of the company in which the alumni's working is also well discussed for helping the students.

5.4.2 – No. of registered Alumni:

878

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

658500

5.4.4 – Meetings/activities organized by Alumni Association :

Alumni meeting held on 26.01.2020 608 alumni attended Department wise Guest lectures and motivational Programmes were conducted

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

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

The institution believes in promoting a culture of decentralized governance system : The department decides on timetable, subject allocation, purchase of equipment and consumables, budgeted allocation, organizing guest lectures and workshops, recommends necessary industrial visits, implant trainings, MOUs and work to achieve its goals, vision and mission. All academic and administrative activities are decentralized and management decisions are taken based on discussion and deliberations in class committee meetings, department meetings, monthly faculty meetings and HODs meeting with principal and director. Finally the Principal coordinates between departments, administration and management. Minutes of these meetings are available. Participative management: Yes, the College promotes culture of participative management which enables staff and students to voice their opinions and suggestions which are considered for improvement. This system of communicative management gives freedom to express their opinions for improvement and address their requirements. Participative management allows collaboration between departments and thereby improves the quality of management. ? The various committees are formed to frame the guidelines, to take part in monitoring and controlling the entire processes of Academic, Finance, Research and Students welfare and Academic Evaluation which is a evidence of decentralization. The following committees are formed: 1. Internal Quality Assurance Cell 2. Planning Monitoring Committee 3. Academic Excellence committee 4. Research and Development Committee 5. Discipline committee 6. Alumni Committee 7. Professional Societies and Women Empowerment 8. Placement and Training Committee 9. Resource Management and Budget committee 10. Anti-Ragging and Social Service Committee 11. Grievance Redressal Committee 12. Internal Compliance Committee All the above committees are supervised by a coordinator with a committee member from each department which enables smooth functioning of the committee without any flaws. In addition to the above, various Stand-alone committees are also formed to administer the following: Library, Sports, Transport, Hostels, Office Administration and Health Care centre. Students also actively participate in NSS activities under the guidance of the Faculty which shows participative management in all aspects. Head of the Departments monitor the execution of academic, research, student activities, placement, and discipline in their respective departments. Assistant Head of the Department, Section Coordinators, Class advisors and Faculty advisors work as a team for the smooth functioning of the departments

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	S.A.Engineering College is an Autonomous institution affiliated to Anna University henceforth the curriculum is framed by concern department subject handling faculty. After getting approval from Board of Studies members, the curriculum is finalized and followed currently for First years. The II years, III years and IV years are following 2017 regulation as prescribed by Anna University. Course Coordinators after

discussing with the subject in charges decide any specific topics can be taught for better and easy understanding of the subjects. These topics are approved in DAC and framed as Content beyond Syllabus. CBS is followed for both practical and theory subjects.

Teaching and Learning

Academic Excellence Committee monitors the effectiveness of teaching and learning methods followed in the college. Academic schedule is framed by the committee and it is approved by the Principal. All academics follow up the academic schedule. Teaching pedagogy methods that is to be followed by each course is decided by the course coordinators and the same is incorporated. Microsoft teams software owned by college has been used to conduct classes effectively and for conducting meeting in online mode. Pedagogy methods include PowerPoint presentations, 3D presentation, Nptel videos, Lab based teaching, Google classroom, Usage of ICT tools, Mini projects etc,. In addition to the above Guest Lectures, Industrial visits are arranged to impart the industry standards to students. Class committee meetings are conducted thrice in a semester before the Internal assessments. Any grievances and difficulties reported are sorted out immediately so as to ensure the correctness of teaching learning methodologies. NSLB students are monitored affectively by conducting special classes

Examination and Evaluation

Exam cell wing headed by Controller of examination ensures the conduction of tests as scheduled in the academic calendar without any flaws. Checking the quality of question papers and answer book evaluation by subject experts in all departments Allocation of invigilation duties in a centralized manner Answer book evaluation is done by the concerned in charge, followed by answer book evaluation by subject experts. Mark entry in Palpap software without any deviations. Due to Pandemic COVID' 19, 2019-2020 Even semester results were published based on student's internal marks as per Government and Management order. .

Research and Development

Faculty with PG degree are encouraged

to register and pursue their doctorates. The cell motivates all faculty members of SAEC to submit proposals to various funding agencies to carry out research projects and to organize sponsored events like seminar, Workshops , Conferences etc. ?

Initiation taken to promote interdisciplinary projects . ? Support towards collaborative research ?

Promotes research by motivating the ideas/innovation of faculty and students through filing of patent and subsequent publication of the same. ? The centre not only focuses on research in core department but also on Science and Humanities. In continuation with this, Anna university research centre for the department of Mathematics was filed. Quality publications is another way of evaluating the research atmosphere in an institution. Hence, the cell appreciates and insist the student and faculty for publication of their research findings in reputed conferences and journals.

Library, ICT and Physical Infrastructure / Instrumentation

Providence College library plays a vital role in the life of students by being a centre of learning on the campus. The books meant for academics, learning and reference are extensively made available to them anytime from 8.30 am to 5.00 pm. Our library has become an inherent part of research, helping scholars with useful material. Our library is fully automated with MODERNLIB automation software. Books are issued and collected back using Bar-coded system. OPAC catalogue search is available. Smart board, computer Wi-Fi, Projector, PALPAP software, SWAYAM, Proquest-Journal, IEEE Journal, DELNET E-books Journal are the e- resources available in our library. Photo copying and printing services are provided to staff, students and outsiders ?

Library, ICT and Physical Infrastructure / Instrumentation Providence College library plays a vital role in the life of students by being a centre of learning on the campus. The books meant for academics, learning and reference are extensively made available to them anytime from 8.30 am to 5.00 pm. Our library has become an inherent part of research, helping scholars with useful material. Our library is fully automated with

MODERNLIB automation software. Books are issued and collected back using Bar-coded system. OPAC catalogue search is available. Smart board, computer Wi-Fi, Projector, PALPAP software, SWAYAM, Proquest-Journal, IEEE Journal, DELNET E-books Journal are the e- resources available in our library. Photo copying and printing services are provided to staff, students and outsiders. This year we added 330 new books worth of Rs.1, 05,659/- and subscribed for 1 new journal. ICT: Today's society shows the ever-growing computer-centric lifestyle, which includes the rapid influx of computers in the modern classroom. Information and Communication Technology can contribute to universal access to education, equity in education, the delivery of quality learning and teaching, teachers' professional development and more efficient education management.

Instructional Methods: Apart from Chalk and Black Board teaching method, some of the following methods are also used by the Faculty members to make the students for learning the subjects.

- SMART Class rooms and Exclusive seminar halls are available to have interactive sessions for all subjects.
- NPTEL video Lectures are available in the Department and the Main Library where the students can access learning materials at any time.
- Web based learning with access to online Journals and E books.
- The learning materials for every Course are available in the content server of the College which can be accessed by the students through the Internet facilities using Wi-Fi available during the College hours.

Human Resource Management

Human Resources aims at quality improvement of the faculty. Training On duty of 7 days is availed by faculty to attend FDPs, Conferences, Seminars, Workshops etc. Faculty are encouraged to take up NPTEL courses, NPTEL Registration fee is reimbursed by the management on successful completion of the course. In addition to this faculty are also motivated by providing vacation on successful completion of the course. ? The norms which were implemented previously such as Provident Funds, Insurance, Casual leave, Vacation (Summer Winter), Maternity leave with pay for 3 months

	is also in effect. ? Faculty's wards are given special fees concession in Sudharshanam Vidhyaashram School
Admission of Students	Students are admitted based on government norms. The management along with administrative staff review the admission process every year. Faculty members of each department assist in guiding the candidates and their parents during the admission. The College website and prospectus also gives details of eligibility norms for admission. It is given to the applicants along with the application form. A customised admission software package has been introduced to facilitate the admission process. Merit and option for the poor are the main criteria for admission
Industry Interaction / Collaboration	The institute has constituted IQAC Cell it has Industry representatives for suggestions with regards to curriculum development other academic activities. Our training placement cell continuously strives for networking with industries for placements internships. The Institute has signed MOU with many reputed companies like GOX, IMMARTICUS, G.K Power Expertise, These MOUS are signed for mutual benefits, mainly for value added courses, Certification courses, internships, incubation centers projects.

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

E-governance area	Details
Planning and Development	To use ICT in the process of planning college-events and activities, institute uses personal e-mails .Important notices and reports are also circulated via e-mails. E-governance is the integration of Information and Communication Technology in all the working processes of the system. It aims to minimize the manual efforts and improve the communication, create transparent system, and to be cost and time effective. To facilitate the same, our college is using Insproplus software, Palpap Ichinichi Software International Ltd. Chennai. with Student, Examination, Finance Account, Employee, Library Modules
Administration	To achieve the target of Paperless IQAC , committee members of it started

	<p>using Google facilities like ? Google sheet : For data collection from Various Departments. ? Google Docs :To prepare notices and activity reports. ? Google Forms : To prepare Feedback forms and get Online feedbacks of Students, Parents. ? Google Drives : To keep all department wise proofs. ? The college has Biometric attendance for teaching and non-teaching staff. ? The college campus is equipped with CCTV Cameras installed at various places of need. ? ICT has been introduced in the Administrative work. ? College staff uses smartphone with inbuilt social app like Gmail to communicate</p>
Finance and Accounts	<p>With the aim to produce immediate information in finance and Accounts The college uses the Tally software, KSV Tech Solutions, Chennai for the transparent functioning of Accounts department</p>
Student Admission and Support	<p>? Insproplus software, Palpap Ichinichi Software International Ltd.Chennai is developed so as to fulfill the need of Student admission and Support. The software is also used for student support like issuing Transfer Certificate, Bonafide certificates. Admission Forms, Issue of ID Cards ,Library cards.</p>
Examination	<p>? To achieve Paperless communication between Exam and other departments e-mails and Insproplus software, Palpap Ichinichi Software International Ltd, are used. Examination section uses Rovon soft ware for generating various reports like Hall-Ticket and result copy</p>

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
No Data Entered/Not Applicable !!!				
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	Title of the administrative training	From date	To Date	Number of participants (Teaching)	Number of participants (non-teaching)
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	programme organised for teaching staff	programme organised for non-teaching staff			staff)	staff)
No Data Entered/Not Applicable !!!						
View File						

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
No Data Entered/Not Applicable !!!				
View File				

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
199	199	192	192

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Provident Fund , Insurance, Fee Concession for wards of teaching faculty,	Provident Fund , Insurance	Scholarship, Insurance

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 and External financial audits are conducted. Audit statements are updated in the college website duly signed by Chairman and Auditor. The institution's financial resources are managed using various effective and efficient measures. The college has a fully computerized accounts department who makes sure that all the transactions are made via bank (Cheques DD) and is supported through cheques and only duly authorized personnel can operate through the bank. There is an efficient budget committee and purchase committee operating in the college who help in proper and efficient allocation and optimum usage of available funds. There is a two tier checking process, internal audit and external audit, to check and follow up on the utilization of financial resources - We have budgetary provisions for all administrative and academic activities. MONITORING FINANCIAL MANAGEMENT PRACTICES THROUGH INTERNAL AUDIT, FINANCIAL PLANNING, BUDGET ALLOCATION, AUDITING Financial planning is done at the start of each financial year. Budget planning is based on: Previous year's income-expenditure details Anticipated expenditure for the coming financial year. Early phase tax planning helps the institute to be up to date and on time with respect to tax payment. All financial matters such as fee collection, salary distribution, tax payment etc are taken care of by the finance department. Record of every transaction is maintained in the form of authentic receipts. Accounting system is computerized for all financial transactions. Budget allocation is based on requirements for different sections/departments. Budgetary provisions are proportionally utilized for administrative and academic activities in order to ensure maintenance and expansion of SAEC We have a Centralized Purchase Committee of SAEC. All

material requirements of our institute including stationery for the new academic year are calculated at the end of previous academic year. Material planning is done on the basis of earlier year's consumption and incoming year's expected student strength. Requisition is placed to the Purchase Committee for all requirements. The Committee prepares their financial planning based on requisition received from various departments. The requirements are supplied in an organized and professional manner. Emergency requirement is met with at local level. If a condition so arises that the available budget is inadequate, then the Institute can meet with the deficit by taking aid from Trust. In order to ensure reliability in terms of budget details and to avoid any form of discrepancy, regular auditing is done during which the planned budgetary details are compared with the factual data (fee receipts, bank statements, purchase service bills etc)

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
IEEE Madras section-ECE	10000	STUDENT PROJECT FUNDING SCHEME
View File		

6.4.3 – Total corpus fund generated

180000000

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	TUVNORD, TUV India Private Ltd	Yes	Expert Process owners- Faculty Auditors
Administrative	Yes	TUVNORD, TUV India Private Ltd	Yes	Expert Process owners- Faculty Auditors

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

1) On the day of re-opening of College, an orientation was given to both parents and students of first year about the college and its functioning with rules and regulations. 2) Parent- Teacher meetings are held twice a year for all students. 3) There is a constant interaction between staff and parents through phone calls and personal meetings throughout the year. 4) Counselling to students with the parents is done if necessity arises. 5) Feedback is taken from Parent – Teacher Association and suggestions are implemented

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

"IoT Training" by CSE Department on 13.05.19 TO 17/05/19 Virtual Training Renewable Energy Systems by EEE Department on 28.5.20, 29.5.20,30.5.20 Hands on Training on IoT, Robotics Industrial Automation by ECE Department on 1st week of April 2020

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

1. S.A Engineering college was conferred Autonomous status from 17 Oct 2019 for a period of 10 years 2. EEE Department and Mechanical Department have submitted Compliance report for NBA accreditation in the academic year 2019-20. Department of EEE Mechanical were provisionally accredited from June 2020 for a period of 1 year 3. Formation of MHRD-Institute Innovation Council headed by Dr.S.Baskar, Professor ,Mechanical department 4. Setting up of Virtual lab in association with Amritha labs 5. Inauguration of Citizen Consumer club 6. Inauguration of IEI-SAEC Student Chapter organized by Mechanical Department. 7. 4 Patents were granted at the mechanical department with the following title • Dr.P.sevvel-Food storage container- 17.05.2019 • Dr.R.Senthil Kumar Dr.P.sevvel - Solar Parabolic utensil-16.08.2019 • Dr.P.sevvel - Helmet with Integrated Camera-11.07.2019 • Dr.S.BaskarMr.Anantha Raman Lakshmi pathy - Smart Bio Transesterification • process for biodiesel Extraction-02.08.2019

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
No Data Entered/Not Applicable !!!					
View File					

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
International Yoga Day celebration	21/06/2019	21/06/2019	32	86
International Plastic bag free day	03/07/2019	03/07/2019	15	15
Cleanliness program in College campus	26/08/2019	28/08/2019	37	9
Citizen Consumer Club Inauguration	26/09/2019	26/09/2019	33	13
Poshan Abiyan	30/09/2019	30/09/2019	12	15
Remembrance of Dr. A.P.J . Abdul Kalam	15/10/2019	15/10/2019	Nil	15
Awareness	18/12/2019	18/12/2019	42	51

Program on KAVALAN SOS (Police Dept)				
Blood donation and Medical Camp	08/01/2020	08/01/2020	41	82
Cancer Awareness Program	29/02/2020	29/02/2020	49	66
Blood donation and Medical Camp- Lions Club	04/03/2020	04/03/2020	60	100

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
15

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Provision for lift	Yes	Nil
Ramp/Rails	Yes	Nil
Rest Rooms	Yes	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
2020	1	1	25/01/2020	1	AVADI CLEANING PROGRAM	Cleaning the village	112

No file uploaded.

7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
Handbook for Parents	Nil	We expect parents and visitors to: <ul style="list-style-type: none"> • Respect and model the caring ethos of our institution whenever on college premises or when communicating directly with the college. • Understand that college staff and parents need to work together for the benefit of all

		<p>Demonstrate that all members of the college community should be treated with tolerance and respect and therefore set a good example in their own speech, conduct and behavior. • Correct own child's behavior especially in public where it could otherwise lead to conflict, aggressive behavior or unsafe behavior. • Approach the right member of college staff to help resolve any issues or concern</p>
Handbook for Alumni	Null	<p>Display respect and courtesy for employees, other volunteers, other alumni and friends of the college, event participants, opposing institution alumni and friends and property • Keep staff informed of progress, concerns and problems within the program(s) in which I participate. • Make every effort for all actions of self and fellow network leaders to be within the guidelines and policies. Apart from above code of Conduct, Alumni has also following responsibilities- Nurture loyalty, pride and tradition , Communicate openly, Promote collaboration ,be passionate</p>
Handbook for Code of Conduct Students	Null	<p>Institute exercise jurisdiction over conduct which occurs offcampus violating the ideal student conduct and discipline as laid down in this Policy and other regulations, as if the conduct has occurred on campus which shall include a) Any violations of the Sexual Harassment Policy of the Institute</p>

against other students of the Institute. b) Physical assault, threats of violence, or conduct that threatens the health or safety of any person including other students of the Institute c) Possession or use of weapons, explosives, or destructive devices offcampus d) Manufacture, sale, or distribution of prohibited drugs, alcohol etc. e) Conduct which has a negative impact or constitutes a nuisance to members of the surrounding offcampus community. The Institute, while determining whether or not to exercise such offcampus jurisdiction in situations enumerated hereinabove, the Institute shall consider the seriousness of the alleged offense, the risk of harm involved, whether the victim(s) are members of the campus community and/or whether the off campus conduct is part of a series of actions, which occurred both on, and offcampus

Service Rule Employee

Nill

A teacher has to lead by example and his / her conduct in a college environment has great impact on students. As responsible, educated adults, teachers need to shoulder certain norms.

1. Knowingly or willfully neglect his/her duties.
2. Discriminate against any student on the ground of caste, creed, language, and place of origin, social and cultural background.
3. Indulge in, or encourage, any form of malpractice connected with examination or any other school activity.
4. During the period of your

service, you cannot join any college or pursue any course of studies without the prior approval of the Head of Institution.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Celebration Indian Constitution Day	26/11/2019	26/11/2019	209
No file uploaded.			

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

- Plantation Drives-Tree plantation programmes are organized by NSS
- The campus to be declared "plastic free" zone
- Tobacco smoking, chewing of pan-masalas and gutka is prohibited in the college campus.
- Use of Renewable Energy- Solar powered water heaters provide hot water to the students in the boys and girls hostels
- Solar power is utilized for 21 Streets lights. (Per day Average of 76 KWHR Power saved)
- The college is using solar powered heaters which have been installed in the boys hostel from 2007.
- The Institute has in place, two rain water harvesting structures in order to increase the water table, as a part of conservation and preservation of natural resource-water
- 6.Energy conservation by preventing carbon emission. DESCRIPTION: Energy conservation In our college, classrooms have number of large windows, so natural light are sufficient instead of using the electric lights. Solar heaters are installed in our hostel to conserve energy. The college has 80 Solar Panels to preserve energy. In our campus, two Power factor controllers available to conserve energy.(1000 KVAR and 400 Amps for each). Installed during HT (High Tension) line commission on 28/06/2010.RO technology is used to purify drinking water.
- Organic farming is initiated by avoiding pesticides.
- Efforts for Carbon neutrality -The college has made arrangements for the parking at the entrance itself. This helps inkeeping the campus as much as possible clean.The college has taken up preventive measures to check the emission of carbondioxide. Only emission tested vehicles areallowed inside the campus. The dead leaves and the waste papers are not allowed to be put on fire. The leaves are buried in the soil itself.
- The labs are well ventilated and spacious and equipped with exhausts. 24 hours water supply is available in labs and safety of the students is given top priority in planning a facility

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Title of the practice CONFORMABILITY WITH CHANGING NEEDS

1.GOAL OF THE PRACTICE: • To adapt with changes in academic and related activities. 2.The context This college serves to the changing requirements of the society and this is reflected in its overall functioning. Skill and outcome based curricula, excellent academic and sport infrastructure facilities, extensive use of ICT in administration, research, examination and evaluation are being implemented. Special attention is given for the overall development of students. Students are given oppurtuinity to exhibit their skills

3.The practice The college is extremely alert to the changing circumstances, academic as well as social, and is proactive in accepting and adapting to the needs. The college uses ICT in academic, research and examination activities, which helps it to stay abreast with the global trends. Online resources like Google classroom, Microsoft Teams etc. are used for effective teaching-learning and Free and Open Source Software like Latex, are also encouraged. The college

encourages students and staff to do 'SWAYAM and MOOC Courses Centre' to promulgate online learning platforms. The university has developed skill and outcome based curriculum with seamless integration with other disciplines for UG and PG programmes. It offers CBCS and credit transfer scheme and flexibility to learn at learner's pace through value-added courses, online courses offered on SWYAM/NPTEL/MOOC platforms. ICT boards are installed in all schools and training is provided on routine basis with regards its usage. This has facilitated the teaching-learning process.

4. Evidence of success The number of students successfully completing the courses is on continual rise.

6. Problems encountered and Resource required I Students find difficulty in connectivity issues especially in remote areas II. Gadget usage creates health issues for few number of students

BEST PRACTICES I. Assessment of Programme Outcome Faculty Development II. Daily Attendance Monitoring Title of the Practice

1. Assessment of Programme Outcome Faculty Development 2. Goal: The aim of the practice "Assessment of Programme Outcome" followed by the Institute is to create a platform to enrich Students Performance and Placements, motivate to do higher studies to improve global economy and faculty productivity.

3. The Context: Every semester, Result Analysis is done to evaluate students' performance and corrective measures are taken for further improvement. Placement records are analyzed every year and feedback from the employers is also collected. Industry oriented training is imparted to the students to enhance their employability skills. Up gradation in acquiring updated technical skills is ensured through innovative projects.

360 Degree evaluation (Students feedback, Head of the Department's report, Principal's report, and Administrative feedback) for faculty is done. Academic Excellence Committee analyses the same and takes measures to fill the gap in teaching efficacy by arranging training and orientation programmes to enrich the eminence. All faculty members are encouraged to take up research works to obtain higher degree and research project funds from outside agencies to establish world class research laboratories and increase the status of the Institute.

4. The Practice Distribution of responsibilities in teaching and learning is mapped to effect significant Strategic change and enforce institution-wide policies. Caliber of the faculty is identified for successful implementation of reforms to strengthen their commitment to improve quality teaching. Heads of departments are given explicit responsibilities for nurturing quality teaching and learning and ensure that the leadership responsibilities are utilized to achieve the desired results. A conducive atmosphere is created for everyone (teacher, student, support staff, etc.) to identify a clear leadership structure. It is ensured that the teaching and learning framework can be easily adapted to reflect teaching faculty's values, ethos and modus operandi. Progress in implementing the framework is monitored and reports are analyzed by the department heads and Principal. Appropriate platforms exist for sharing experience and initiatives across the institute.

5. Evidence of Success Evidence of success, benchmarks and review of results exist. The students' performance in university examinations have been gradually improving. Many faculty members have completed and awarded Ph.D. degree and some more are in the verge of submission of their Thesis. This practice helps increasing the number of national and international research publications. Students are highly motivated in innovative projects and won prizes in technical competitions and published research papers in conferences and workshops. Students are also inclined to pursue higher education to quench their thirst in modern technology. This helps to enrich the society and the quality of life as well.

6. Problems Encountered and Resources Required: Some students' lack of concentration in studies necessitates the implementation special attention through special coaching classes. Regular tests are also conducted through there may be decrease in percentage sometimes. Students are thrown open to the practice in problematic subjects through Assignment books. Counseling rendered through continuous monitoring to bring out the best of them. Consistent

monetary and moral support is extended from the management in upgrading research laboratories, conducting seminars, workshops, symposia for enhancing the students' career. . BEST PRACTICES II 1. Title of the practice II. Daily attendance monitoring 2. Goal To achieve 100 attendance in each class 3. The context Difficulty in coping with the studies results in disinterestedness towards studies. Some such students are inclined to slight learning and absent themselves to the classes. In view of evading unnecessary absence to the classes. 4. The practice Students' attendance is monitored everyday by the Faculty advisors. If any absence is identified, the parents are intimated and reason for absence is obtained. An entry of the same is done in a register exclusively maintained for this purpose. The register is taken to the perusal of the Head of the departments and the Principal and acknowledged by them. The absentees are counseled by the Faculty advisors to make them committed to their studies which eventually fetch a good attendance. 5. Evidence of success This regular follow up of students and parents every day, aids to track the students and keep them in the streamline. The number of students produce 100 attendance is getting enhanced 6. Problems encountered and Resource required In alignment with the absence, some parents do not respond the faculty properly which may affect the result of the students. Contingent upon the parental response they are given an understanding of the necessity of the attendance to cope with the studies. Students are also counseled and guided individually in bringing up the interest in learning. Identified repetition in individual's absence is taken to the attention of the Head of the department and the student is counseled by the department head. Long absence is also encountered occasionally due to the ill-health of some students and notification is sent to the parents for a meeting in person. Parents and students are counseled for unaffected continuance of studies.

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

<https://saec.ac.in/wp-content/uploads/2021/04/BEST-PRACTICES-FOR-AOAR-19-20.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

Research and Development 2. Objectives of the Practice to reach its vision • ?? To build a research eco-system for promotion of research and innovation in core and interdisciplinary areas catering to local and national needs. • To encourage faculty and researchers to undertake projects and seek patents. ? The Research Development is to facilitate academic research for the development of the academicians and the institution. ??It aims to bring about a dynamic equilibrium with its social and economic environment for excellence in education, research and service to the nation. ??To explore unreached areas by bringing openness in multi-disciplinary research. ??To provide a supportive research environment in which scholars, at every stage of their career, can flourish and develop. 3. The Context of priority SAEC has been the key contributor of Research and Development in nurturing the faculty and students through various academic programs conducted by the different departments. Students and staff have been encouraged to carry out innovative, sponsored research works in the departments in terms of development and technology. As a part of the career enhancement, faculty members are thrown open to the opportunities to register for PhD degrees. The number of publications in reputed, peer-reviewed journals, which is a good sign of research output, has been quite substantial during the last three years. Interdisciplinary approach is being used to address common issues in society. 4. The Practice of Thrust over the achievement o Devise strategies to assist the research scholars in meeting their research objectives o Periodical review of research strategies

and plans of department developments through road map o Analyzing the road map areas for initializing inter disciplinary research o Identification of new initiatives and opportunities in the innovation area o Effective publication of the research works in reputed journals and conferences o Identification of social issues and bringing about a solution to the issues 5.Evidence of Success S. A. Engineering College has been recognized as a Research Center Approved by Anna University, Chennai for the following Departments. 1. Department Of Mechanical Engineering 2. Department of Electronics and Communication Engineering 3. Department of Electrical and Electronics Engineering 4. Department of Computer Science and Engineering The institute has executed many major Research and Development projects funded by government and non-government organizations such as AICTE, MRNE, SERB, CSIR, and DRDO etc. Ample number of staff have registered for their Ph.D. programmes and pursuing with the same. The Research Centers help the staff and students to render a consistent attentiveness towards their research works as a part of their professional enrichment. Students and staff have published papers in various reputed Journals and National and International Conferences. 6.Problems Encountered and Resources Required The reception of funds for the implementation part of the projects. Sometimes high cost is involved in executing research activities specifically concerning capital equipment. The management partially provides optimum funds to implement the research practices to the to the possible extent. The institute also receives funds from outside agencies, which greatly helps in upgrading research laboratories and promoting the practice.

Provide the weblink of the institution

<https://saec.ac.in/wp-content/uploads/2021/04/INSTITUTIONAL-DISTINCTIVENESS-for-AOAR-19-20.pdf>

8.Future Plans of Actions for Next Academic Year

1. To introduce new programmes 2. To adopt changes in curriculum. 3. To implement Autonomy innovative process in teaching, learning evaluation are to be enhanced in forthcoming days 4. To carry out examination evaluation reform as per autonomous colleges. 5. To undertake initiatives towards faculty development program. 6. To improve Institute Industry Collaboration and Industry Oriented labs 7. To promote Extension Activities and Social Responsibilities. 8. To materialize technology up gradation. 9. To enhance coaching for competitive examination, counselling for career guidance and placement cell. 10. To boost student activities in cultural and games and sports at state, national and international level.