S.A. ENGINEERING COLLEGE

Sponsored by Dharma Naidu Educational and Charitable Trust
Accredited by NBA, NAAC with 'A' Grade & ISO 9001 : 2008 Certified Institution
Approved by A.I.C.T.E. and Affiliated to Anna University

Poonamallee - Avadi Main Road, Thiruverkadu, Chennai - 600 077.
Phone : 2680 1999, 2680 1499, Fax : 2680 1899

Dr. P.K.NAGARAJAN, M.E., Ph.D.,
PRINCIPAL

Date : **31.08.2018**

To
The Director,
National Assessment and Accreditation Council,
P.O. Box no.1075, Nagarbhavi,
Bangalore – 560072, Jarnataka,
India.

Sir,

Sub: S.A. Engineering College, Chennai – IQAC cell – Submission of Internal Quality Assurance Report (Academic year 2017-18) – Reg.

S.A. Engineering College started by Dharma Naidu Educational and Charitable Trust during 1997-1998 in accordance with the policy of Government of Tamil Nadu. The college is affiliated to Anna University, Chennai and the courses approved by All India Council for Technical Education, New Delhi and also accredited by National Board of Accreditation of AICTE. In recognition of the quality system of higher caliber being implemented for the administration of the Institution and achievement of its goals, TUVNORD have accorded ISO 9001:2015 Certification. The college offers 6 Undergraduate Courses and 6 Postgraduate courses programmes.

We submit herewith the Internal Quality Assurance Report of our college for the academic year 2017-2018. All the detailed documents are enclosed along with this letter for your kind perusal. So we request you to consider this report and acknowledge the receipt of the same.

Thanking you,

PRINCIPAL

Encl: Internal Quality Assurance Report (2017-2018)

Dr. P.K. NAGARAJAN, M.E.,Ph.D.
PRINCIPAL
S.A. ENGINEERING COLLEGE
POONAMALLEE - AVADI ROAD,
VEERARAGHAVAPURAM,
THIRUVERKADU, CHENNAI - 600 077

The Annual Quality Assurance Report (AQAR) of the IQAC (2017-2018)

All NAAC accredited institutions will submit an annual self-reviewed progress report to NAAC, through its IQAC. The report is to detail the tangible results achieved in key areas, specifically identified by the institutional IQAC at the beginning of the academic year. The AQAR will detail the results of the perspective plan worked out by the IQAC. *(Note: The AQAR period would be the Academic Year. For example, July 1, 2012 to June 30, 2013)*

Part – A

1. Details of the Institution

1.1 Name of the Institution

> S.A. ENGINEERING COLLEGE

1.2 Address Line 1

> POONAMALLEE - AVADI MAIN ROAD

Address Line 2

> VEERARAGHAVAPURAM

City/Town

> THIRUVERKADU POST

State

> TAMIL NADU

Pin Code

> 600077

Institution e-mail address

> SAEC@SAEC.AC.IN

Contact Nos.

> 044-26801999 , 044- 26800999

Name of the Head of the Institution:

> DR.P.K.NAGARAJAN

Tel. No. with STD Code:

> 044-26801499

Mobile:

> +91-9789815744

Name of the IQAC Co-ordinator: Dr.S.SRIDHAR

Mobile: 91-984121318

IQAC e-mail address: SAECIQAC@SAEC.AC.IN

1.3 **NAAC Track ID** *(For ex. MHCOGN 18879)* TNCOGN19691

1.4 **NAAC Executive Committee No. & Date:**
(For Example EC/32/A&A/143 dated 3-5-2004.
This EC no. is available in the right corner- botto
of your institution's Accreditation Certificate)

EC(SC)/05/A&A/033

1.5 Website address: WWW.SAEC.AC.IN

Web-link of the AQAR: www.saec.ac.in/pdf/AQAR-2017-2018

For ex. http://www.ladykeanecollege.edu.in/AQAR2012-13.doc

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1st Cycle	A	3.11	2015	March 02,2020

1.7 Date of Establishment of IQAC : DD/MM/YYYY 02-07-2014

1.8 **AQAR for the year** *(for example 2010-11)* 2017-18

1.9 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC (*(for example AQAR 2010-11submitted to NAAC on 12-10-2011)*
   i.   AQAR(IQAC-2014-15 ODD) Submitted to NAAC on (02/12/2014)
   ii. AQAR(IQAC-2014-15 EVEN) Submitted to NAAC on (21/08/2015)
   iii. AQAR(IQAC-2015-16 ODD) Submitted to NAAC on (17/02/2016)
   iv. AQAR(IQAC-2015-16EVEN) Submitted to NAAC on (07/09/2016)
   v.   AQAR(IQAC-2016-17) Submitted to NAAC on (30/06/2017)

1.10 Institutional Status

University   State ☐   Central ☐   Deemed ☐   Private ☐

Affiliated College   Yes ✓   No ☐

Constituent College   Yes ☐   No ☐

Autonomous college of UGC   Yes ☐   No ☐

Regulatory Agency approved Institution   Yes ✓   No ☐

(eg. AICTE, BCI, MCI, PCI, NCI)

Type of Institution   Co-education ✓   Men ☐   Women ☐

                    Urban ✓   Rural ☐   Tribal ☐

Financial Status   Grant-in-aid ☐   UGC 2(f) ☐   UGC 12B ☐

                Grant-in-aid + Self Financing ☐   Totally Self-financing ✓

1.11 Type of Faculty/Programme

Arts ☐   Science ✓   Commerce ☐   Law ☐   PEI (PhyEdu) ☐

TEI (Edu) ☐   Engineering ✓   Health Science ☐   Management ✓

1.12 Name of the Affiliating University *(for the Colleges)*   ANNA UNIVERSITY,CHENNAI

1.13 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc

Autonomy by State/Central Govt. / University ☐

University with Potential for Excellence ☐   UGC-CPE ☐

DST Star Scheme ☐   UGC-CE ☐

UGC-Special Assistance Programme [ ]   DST-FIST [ ]

UGC-Innovative PG programmes [ ]

UGC-COP Programmes [ ]

Any other (*Specify*) | Approved by AICTE &
Affiliated to Anna University |

2. IQAC Composition and Activities

2.1 No. of Teachers | 10 |

2.2 No. of Administrative/Technical staff | 9 |

2.3 No. of students | 10 |

2.4 No. of Management representatives | 02 |

2.5 No. of Alumni | 03 |

2. 6 No. of any other stakeholder and

   community representatives | 01 |

2.7 No. of Employers/ Industrialists | 04 |

2.8 No. of other External Experts | 01 |

2.9 Total No. of members | 40 |

2.10 No. of IQAC meetings held | 2 |

2.11 No. of meetings with various stakeholders   No. | 01 |

2.12 Has IQAC received any funding from UGC during the year?   Yes [ ]   No | ✓ |

    If yes, mention the amount   [   ]

2.13 Seminars and Conferences (only quality related)

    (i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC

Total Nos. | 10 | International | 2 | National | 8 | State | - | Institution Level | - |

    (ii) Themes | WORKSHOPS ON ACCREDIATION STRATEGIES |

2.14   Significant Activities and contributions made by IQAC

The Internal Quality Assurance Cell (IQAC) of the college has taken initiatives in preparing the perspective plan by collecting inputs from all stakeholders, their expectations, management policies and goals and objectives of the college. Internal Quality Assurance Cell ensures the quality of the teaching-learning process and its outcome through internal and external audits conducted at regular intervals.

1.IQAC is constantly evaluating teaching learning process through feedback.

2. Strengthening the campus placements process to provide job opportunities for the Students.

3. Strengthen the Environmental Projects for Green Campus.

4. Value Addition Programmes / career oriented technical training programmes for students to improve their technical acquaintance.

5. Management supports for Research Projects and encouraging research collaborations

6. On timely basis upgradation of Lab Equipment‟s to meet with the advanced technology across the departments.

7. Encouraging Students for Industrial Visits to understand and to gain the knowledge of new concepts.

8. Orientation programmes are conducted for Teaching and Non Teaching Staff Members. Staff and Students are Encouraged to apply their innovative projects to get funding from various Granting Agencies.

9. Supplementary encouragement is given to Students to participate in different events like Sports / NSS / CSR activities

10. Regular interaction with class representatives and class advisors of each and every department for maintaining and sustaining quality education as directed by IQAC.

11. University Rank Holders were felicitated with cash awards and mementoes

12. Co-ordinated online Examination conducted by Government of India.

13. Organised International workshop in Power system studies using ETAP & DIgSILENT by Dr. Somasundaram, Anna University & Mr. Selvakumar, ABB on 4th & 5th May 2017.

14. Organised Workshop on Operational data analysis using R software by Mr.P.Murugesan, Senior Academician and Professional Analyst IAEME & Founder & CEO Tulsi Consultancy services on 17th March 2017.

15. Organised National Conference in VUCA world 17 by Mr. Rajendran Dandapani, Director of Engineering, SOHO Corporation, and Chennai on 20th Feb 2017.

2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year *

Plan of Action	Achievements
Proposal and plan to conduct National Level Seminars,Conferences,workshops,symposiums,FDP etc.,	National level conference,workshops,seminars,symposiums,FDP were conducted across the departments.
Plan for Industrial visit and Educational Tours.	Visiting various Industries for updating current scenario to students.
Research Activities.	Faculty Members were encouraged to apply for research projects to various funding agencies and also they have monitored for the same.

More number of community activities to be initiated.	Community activities initiated through NSS,YRC.
Practices to reform and improve the student's success rate.	Various practices such as daily class test,question bank for slow learners,assignment,remedial classes.
Sports and Cultural Activities.	Students have actively participated in Sports and cultural activities in other Inter collegiate competitions. The students have enlightened the college status by winning the various competitions
Arrangement for feedback response from students,parents and other stakeholders on quality related institutional processes.	Preparing a review report on the feedback received from the stakeholders for continuous improvement.
Encourage students to apply theoretical knowledge and come up with innovative projects.	An Entrepreneurship development programme was organized for the benefit of the students.All sorts of assistances were provided for students innovative projects from Entrepreneurship cell.

Annexure I- Academic Schedule

Annexure II- Event Planner

2.15 Whether the AQAR was placed in statutory body   Yes   ✓   No   ☐

Management   ✓   Syndicate   ☐   Any other body   ☐

Provide the details of the action taken

The Management and IQAC members approved the Annual Quality Assurance Report (AQAR) after a detailed discussion. They also suggested to strengthen the placement, industry institution interaction, and research & consultancy activities. The follow -ups were done periodically through the HODs meeting and other department level meetings

Criterion – I

1. Curricular Aspects

1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD	5	-	5	-
PG	6	-	6	VAC-2 COP-4
UG	6	-	6	VAC-32 COP-18
Total	17	-	17	56

1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options
     (ii) Pattern of programmes:

Pattern	Number of programmes
Semester	6 UG 6 PG
Trimester	
Annual	-

1.3 Feedback from stakeholders*   Alumni   Parents   Employers   Students
   (On all aspects)

        Mode of feedback   :   Online   ✓   Manual   Co-operating schools (for
PEI)

*Please provide an analysis of the feedback in the Annexure

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.

> **YES,** Our S.A.Engineering college is affiliatd to Anna University , As per new regulations 2017 syllabus has been upgraded to meet the industry standards and to satisfy the prerequisite of Outcome based Education.

1.5 Any new Department/Centre introduced during the year. If yes, give details.

> NO

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of
permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
264	184	53	27	---

2.2 No. of permanent faculty with Ph.D.

33

2.3 No. of Faculty Positions
Recruited (R) and Vacant (V)
during the yea

Asst. Professors		Associate Professors		Professors		Others		Total	
R	V	R	V	R	V	R	V	R	V
55	-	1	-	1	-	3	-	60	-

2.4 No. of Guest and Visiting faculty and Temporary faculty

-		2		-

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	32	167	26
Presented papers	132	56	0
Resource Persons	6	6	19

2.6 Innovative processes adopted by the institution in Teaching and Learning:

S.No	Innovative methodologies	Assessment Method	Nature of subject	Highlights/Improvements
1	Project based learning	Project presentation	Analytical Design	Students are encouraged to do projects such that it must incorporate new

				design and technology to meet societal needs and also innovative .
2	Team based learning	Tutorials	Theoretical	In team based learning students are organized into diverse teams and work together in the class
3	Lab based learning	Conducting experiments	Theory and analytical	Occurs in a laboratory environment and is a form of learning through practical experimentation. Students undertake practical work which develops experimental and design skills, data collection and analytical capabilities, problem solving skills and professional practice
4	Poster Design	Content and presentation	Analytical and design	In poster design, posters with text and graphics are prepared to make classes more interesting.
5	Guest lecture	Quiz	Theory and analytical	Guest lecture has been arranged to students with well-known experts in their fields to share their knowledge with the students.
6	Mini Project	Presentation	Design system and development	Mini project a kind of assignments given to the students especially at the end of the semester to improve the fundamentals through effective applications of theoretical knowledge .
7	Assignments	Content and presentation	Theory and analytical	Assignments were given to the students as part of the course of study.
8	Seminar	Presentation	Theory and analytical	Seminars has been conducted which provides an opportunity to explore more by discussions

2.7   Total No. of actual teaching days   158
        during this academic year

2.8 Examination/ Evaluation Reforms initiated by

the Institution (for example: Open Book Examination, Bar Coding,
Photocopy, Online Multiple Choice Questions)

1. Examinations are conducted with replicating answer booklets as to the norms and standards of the affiliating university.
2. Common evaluation is practiced for uniformity in valuation.
3. Apart from three internal assessment examinations specified by affiliating university, we conduct two additional examinations to create an ease platform for the students.
4. A separate team (which was trained) is used for the scrutiny before, during and after examination for maintaining the standards which are set as benchmark for the institutions.
5. Feedback mechanism is always practiced to ascertain the standards.

2.9 No. of faculty members involved in curriculum restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop

| 1 | 2 | - |

2.10 Average percentage of attendance of students

| 91% |

2.11 Course/Programme wise distribution of pass percentage:

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
CIVIL	67	1.49	47.76	25.57	-	74.6
CSE	158	-	74.68	10.2	-	84.8
ECE	169	1.77	77.51	10.05	-	89.34
EEE	120	2.5	64.16	20.8	-	87.5
IT	57	-	82.45	3.5	-	85.96
MECH	138	1	81.6	17.5	-	87
M.E.(CAD/CAM)	5	-	100	-	-	100
M.E.(CSE)	5	20	80	-	-	100
M.E CSE(PT)	1	-	100%	-	-	-

M.E.(COMM.SYS)	7	14.28	71.42	-	-	85.71
M.E(EST)	1	-	100	-	-	100
M.E.(PED)	3	100	-	-	-	100
MBA	91	2.20	81.31	16.49	-	100
MCA	65	3.22	88.7	8.06	-	95.38

2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes :

- All the departments are having highly qualified and experienced faculty members with well-equipped and Modern Laboratories.
- Faculty members are preparing Lesson Plan as per the schedule prescribed by the Affiliated University (Anna University).
- Lab Manuals, Tutorial Note books, Question bank with answer and Study materials for slow learners are prepared by the faculty members which is effectively implemented to enhance the student's academic performance.
- All departments have a well-equipped seminar hall with smart board and class rooms with multimedia projectors.
- NPTEL Video Lectures and Real time Videos are shown to the students to enhance their technical knowledge.
- Value Added Courses, Guest Lectures, Industrial Visits, Seminars, Conferences, Short term training programs and workshops are regularly conducted in every academic year to equip students with recent advancement in technologies.
- Faculty members are encouraged to participate in FDP, Seminars, Conferences, Short term training programs and workshops to enhance their knowledge in current trends.
- Continuous and comprehensive evaluation process is followed with three internal examinations, end semester exam in each course. Complete transparency is a key feature of our evaluation system.
- Students are empowered to design time table of examination to consider the convenience but to adhere with the examination schedule.
- The performances of the students are determined by evaluating the answer scripts and the results are declared in time. Special coaching given to slow learners.

- Weekly an hour is allotted for counseling, library and seminar programme in regular time table itself.
- Extra-Curricular activities like Culturals, Sports, Annual function, fresher's welcome and farewell functions are organized periodically.
- Induction Programme and interdepartmental matches are periodically conducted for all the department students.

Monitor/Evaluate the Teaching & Learning processes:

- The subjects have been allotted to the faculty who are specialized in particular field.
- The Tutorial hours have been allotted and classes has been scheduled within Academic schedule
- Special Coaching classes have been scheduled and monitored by AEC committee to conduct coaching classes in an effective way.
- Various methodology followed to evaluate the Teaching & Learning Process are:
  Academic Calendar, Teaching Plan, Progress Reports, Feedback ISO External and internal Audit.

2.13 Initiatives undertaken towards faculty development

Faculty / Staff Development Programmes	*Number of faculty benefitted*
Refresher courses	20
UGC – Faculty Improvement Programme	25
HRD programmes	6
Orientation programmes	2
Faculty exchange programme	-
Staff training conducted by the university	17
Staff training conducted by other institutions	98
Summer / Winter schools, Workshops, etc.	131
Others	54

2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	18	5	4	-
Technical Staff	80	13	16	-

Criterion – III

3. Research, Consultancy and Extension

3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

> ❖ 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.

3.2 Details regarding major projects:

	Completed	Ongoing	Sanctioned	Submitted
Number	01 (DST-FIST)	04 (DST,CVRDE(2),MSME)	01 (CVRDE)	111
Outlay in Rs. Lakhs	40	303.05	11.56	703.15

3.3   Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	04	-	04	12
Outlay in Rs. Lakhs	0.39400	-	0.39400	12

3.4Details on research publications

	International	National	Others
Peer Review Journals (1)	318	18	-
Non-Peer Review Journals (2)	-	207	-
e-Journals – total	318	18	-
Conference proceedings	119	84	-

3.5 Details on Impact factor of publications:

Range   Citations - 9195   Average   i10 index-37   h-index   18

Nos. in SCOPUS(Till Feb 2018)   40

3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations

Nature of the Project	Duration Year	Name of the funding Agency	Total grant sanctioned	Received
Major project -1 **Design and Development of Offline Analysis Software for Analyzing Automotive Trial Data**	1.6 Years	CVRDE	11,56,663	6,22,000
Minor Projects -1- An IoT Based Expert System For Smart Agriculture	6 Months	TNSCST	9500	9500
Minor Projects – 2 – IOT enabled smart mirror for physically challenged	6 Months	TNSCST	10,000	10,000
Minor Projects – 3 – Modernized wheelchair for physically challenged with height adjustment	6 Months	TNSCST	10,000	10,000

mechanism				
Minor Projects – 4 – Traffic Simulation Modelling and automated road for unmanned railway crossings	6 Months	TNSCST	9,900	9,900
Interdisciplinary Projects	-	-	-	-
Industry sponsored	-	-	-	-
Projects sponsored by the University/ College	-	-	-	-
Students research projects *(other than compulsory by the University)*	-	-	-	-
Any other(Specify)	-	-	-	-
Total	-	-	11,96,063	6,61,400

3.7 No. of books published   i) With ISBN No. **11**   Chapters in Edited Books **04**

ii) Without ISBN No. **03**

3.8 No. of University Departments receiving funds from –**Not Applicable**

UGC-SAP -   CAS -   DST-FIST -

DPE -   DBT Scheme/funds -

3.9 For colleges   Autonomy -   CPE -   DBT Star Scheme -

INSPIRE -   CE   Any Other (specify)

3.10 Revenue generated through consultancy   **Rs.1,51,500/-**   DST-HSRS,DST-SERB,DST-FAST TRACK,ISRO,AICTE,CVRDE,TNSCST

3.11 No. of conferences organized by the Institution

Level	International	National	State	University	College
Number	02	02	-	-	-
Sponsoring agencies	IEEE	ISTE			

3.12 No. of faculty served as experts, chairpersons or resource persons   103

3.13 No. of collaborations International   -   National   8   Any other   -

3.14 No. of linkages created during this year   8

3.15 Total budget for research for current year in lakhs :

From Funding agency   13.50040   From Management of University/College   67.95000

Total   81.45040

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	04
	Granted	Published -04
International	Applied	-
	Granted	-
Commercialised	Applied	-
	Granted	-

3.17 No. of research awards/ recognitions   received by faculty and research fellows
Of the institute in the year

Total	International	National	State	University	Dist	College
05	04	01	-	-	-	-

3.18 No. of faculty from the Institution
who are Ph. D. Guides   18

and students registered under them   83

3.19 No. of Ph.D. awarded by faculty from the Institution   06

3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)

JRF   01   SRF   Project Fellows   Any other

3.21 No. of students Participated in NSS events:

University level   -   State level   3058

National level   -   International level   -

3.22 No. of students participated in NCC events:

University level | - | State level | - |

International level | - | National level | - |

3.23 No. of Awards won in NSS:

University level | - | State level | - |

International level | - | National level | - |

3.24 No. of Awards won in NCC:

University level | - | State level | - |

International level | - | National level | - |

3.25 No. of Extension activities organized

University forum | | College forum | |

NCC | | NSS | 09 | Any other | |

3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

- Blood donation Camp

- Tree Plantation

- Voters Awareness Programme

- Cleanliness program in college and nearby villages

- International Yoga Day

Consolidated Social Service Activities 2017-18(odd)

S.No.	Date	Name of the Programme	Venue	Organized	Beneficial
1	21.06.2017	International day of yoga	SAEC	NSS unit & The world community service centre	1000 students
2	27.07.2017	Remembrance Of Dr. A P J Abdul Kalam Of Human Chain	SAEC	NSS Unit of SAEC	200 Students
3	05.08.2017	Tree Plantation	SAEC	NSS Unit of SAEC	100 Students &600 Saplings
4	19.08.2017	Dental Camp	SAEC	NSS Unit &Rotaract club	1000 students
5	22.09.17	Human chain programme on "cleanliness is service	SAEC	NSS Unit &Rotaract club	200 students
6	25.09.17	Adoption of village	Perumal pattu village	NSS Unit &Rotaract club	50 students
7	09.11.2017	Camp For Enrolment Of Young Voters	SAEC	NSS unit and AVADI Taluk office	137 students

Consolidated Social Service Activities 2017-18(Even)

S.No.	Date	Name of the Programme	Venue	Organized	Beneficial
1	13.2.2018	Blood donation Camp	SAEC	NSS Unit and Aarthi scans	207 Units
2	14.2.2018	Blood donation Camp	SAEC	NSS Unit and Lions club	164 units

Criterion – IV

4. Infrastructure and Learning Resources

4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	25.58 acres	-	Self	25.58
Class rooms	73	-		
Laboratories	83	-		
Seminar Halls	12	-		
No. of important equipments purchased (≥ 1-0 lakh) during the current year.	1	53	Self finance	53
Value of the equipment purchased during the year (Rs. in Lakhs)	-	26.54488	Self finance	26.54488
Others				

4.2 Computerization of administration and library

Our SAEC central Library fully automated with integrated Library Management Software System. (Auto Lib Software) Our Library users access the resources through OPAC (Online Public Access Catalogue). E- Resources

4.3 Library service

	Existing		Newly Added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	55732	13016942.81	250	130643.14	55982	1,31,47,585.96
Reference Books	2916	-	732	-	3648	-
E-Books	1609	-	1609	-	1609	-
Journals	455	1517213.00	130	362400.00	585	1879613.00
E-Journals	IEL, IEEE, ASME, ASCE, FKA DEL, SCIENCE DIRECT	4743579.20	IEEE, SCIENCE DIRECT	1166424.00	IEEE, SCIENCE DIRECT	5910003.20
Digital Database	DELENT	97000.00	DELNET	13298.00	DELNET	110298.00
CD & Video	6616	-	797	-	7413	-
Magazines	315	353467.00	114	158407	429	501974.00

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Depart-ments	Others
Existing	1152	20	45Mbps	1	1	1	8	
Added	24	-	55 Mbps	0	0	0	0	
Total	1176	20	100 Mbps	1	1	1	8	

4.5 Computer, Internet access, training to teachers and students and any other programme for technology
   upgradation (Networking, e-Governance etc.)

> 1. Workhop on Google forms
>
> 2. Workhop on Latex
>
> 3. Training on Insproplus (ERP application for college administration)

4.6 Amount spent on maintenance in lakhs :

   i) ICT   3.54000

   ii) Campus Infrastructure and facilities   213.88800

   iii) Equipments   86.17254

   iv) Others   2385.81708

                              Total :   2689.4176

Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- Students can register their grievances through college website.
- Students are provided with an individual mail ID along with a class group mail ID and e circular are circulated within the websites.
- Women empowerment programs are conducted regularly to encourage the need of education and career.
- Class committee meetings are conducted regularly to full fill the requirements of the student.
- Students with 100% attendance are rewarded .

5.2 Efforts made by the institution for tracking the progression

- Students internal assessments are updated via SMS to parents
- Students University results are updated to parents via postal service
- Students those who are lagging in academic performance undergo coaching classes at 4.05pm to 5.00pm
- Parents teacher meeting are conducted to the students those are very poor in academics

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
3065	406	-	-

(b) No. of students outside the state

4

(c) No. of international student

-

Men

No	%
2097	60.41

Women

No	%
1374	39.58

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
306	371	5	2772	-	3454	335	375	3	2758	-	3471

Demand ratio =   95.14% (3471/3648)   Dropout = 1%

5.4 Details of student support mechanism for coaching for competitive examinations (If any)

S.A. Engineering College students are given GRE Training to plan for pursuing higher studies abroad. Training and Placement Cell organizes various kinds of training for students. Among them noteworthy is GRE training. Every year MoU is signed with an esteemed centre and an awareness programme is conducted to bring it to the notice of the students. Interested candidates of all branches are identified and given GRE training at an affordable fees. The candidates who attend this training is becoming eligible for any competitive examination. In the year 16-17 alone 28 candidates got registered for the training and got trained.

Apart from this a cell in the department of English is giving guidelines for a self-preparation for various examinations. The students can utilize the sources available in the department for preparation. The cell is facilitated with 2 computers with Internet connection, Books and CDs.

No. of students beneficiaries   40

5.5 No. of students qualified in these examinations

NET [NIL] SET/SLET [NIL] GATE [NIL] CAT [NIL]

IAS/IPS etc [NIL] State PSC [NIL] UPSC [NIL] Others [NIL]

5.6 Details of student counselling and career guidance

Student Counselling

- 20 students are allotted for each faculty members to guide and encourage them in order to improve their performance towards academics and non-academics.

- Counselling are provided to the students after each assessments in order to track and improve the performance of each individual

- Mentoring efficacy is done at the end of the semester

- Professional counselling is also done for the needy students.

Career Guidance

- Technical training program was conducted for final year students in odd semester by Launch Pad

- Aptitude training program was conducted for third year students in both odd and Even semester by SMART

- Business English Certificate program was conducted for second year students in odd semester by Strides Consultancy

- In even semester, aptitude training was given to the second year students by SMART

- Cocubes and AMCAT Assessment Test was conducted for final year students

- Company based training was given to the eligible students before Capgemini and Aspire Systems campus drive

No. of students benefitted [318]

5.7 Details of campus placement

On campus			Off Campus
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
157	1025	445	246

5.8 Details of gender sensitization programmes

> 1. Her Health Hygiene on 21.07.2017.
>
> 2. Competition to create awareness about legal rights of women on 07.11.2017.
>
> 3. Women's day celebration on 08.03.2018

5.9 Students Activities

5.9.1   No. of students participated in Sports, Games and other events

State/ University level   163   National level   15   International level

No. of students participated in cultural events

State/ University level   15   National level   Nil   International level   Nil

5.9.2   No. of medals /awards won by students in Sports, Games and other events

Sports : State/ University level   4   National level   2   International level

Cultural: State/ University level   -   National level   -   International level   -

5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution	-	-
Financial support from government	1144	Rs.1,62,88,690
Financial support from other sources	11	Rs.40,000
Number of students who received International/ National recognitions	-	-

5.11   Student organised / initiatives

Fairs   : State/ University level [-]   National level [-]   International level [-]

Exhibition: State/ University level [-]   National level [-]   International level [-]

5.12   No. of social initiatives undertaken by the students [09]

5.13 Major grievances of students (if any) redressed:
(sample attached)

ACADEMIC YEAR :   2017-18   (ODD)
DEPARTMENT: EEE
YEAR/SEMESTER   :   II/III

S.NO	NAME OF THE STAFF/STUDENTS	YEAR/SEC	COUNSELLOR NAME	PURPOSE OF COUNSELLING	SUGGESTION BY COUNSELLOR	DESCRIPTION BY THE STAFF/ STUDENTS
1	Vijay.S	II/B	Mrs.N.Rajavinu	Interested In CCA Activities but needed guidance.	Encouraged and guided how to present /participate in events.	**Got first prize in Robot race and second prize in Line follower.**
2	M.Mythili	II/B	Mrs.Archana	Interested more in sports activies, less concentration on studies	Motivated how to balance between sports and studies	**Improved academic results**

| 3 | B.Aravinth | III/A | Mrs.L.Nagalak shmi | Less attendance Percentage due to Health issue | Asked him to take care of his health and also to be regular to college. | Student turn up for regular classes. |
| 4 | Kaushik Varma | IV/A | Mrs.A.Prabha | Interested In CCA Activities but needed guidance. | Encouraged and guided how to present /participate in events. | **His project selected for ARM contest held at Bangalore** |

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

Vision
To transform our institution into quality technical education center imparting updated technical knowledge with character building.
Mission
To create an excellent teaching and learning environment for our staff and students to realize their full potential thus enabling them to contribute positively to the community. To significantly enhance the self-confidence level for developing creative skills of staff and students.

6.2 Does the Institution has a management Information System

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. The screen shot of the MIS software is depicted below.

S. A. ENGINEERING COLLEGE

Admission	Student	Attendance	Mark	Schedule
Black Box	Question	SMS	Chart	Request
Feedback	Finance	HR	Inventory	Hostel
Office	Transport	COE	I Patch	
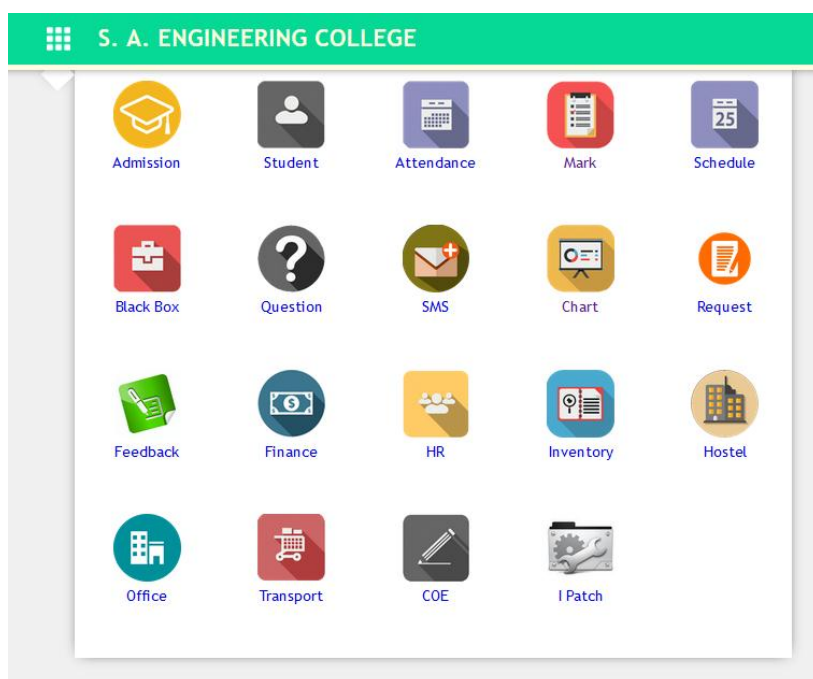
6.3 Quality improvement strategies adopted by the institution for each of the following:

6.3.1   Curriculum Development

Since the institution is affiliated to university ,it is supposed to follow the curriculum framed by the university. But it can identify the curricular gap through the Department Advisory Committee can suggest the required inputs that is taken from various stake holders like companies that visit for placements, experts that visit the college on various occasions, alumni, etc

6.3.2   Teaching and Learning

1. Teaching and learning is regularly monitored by the Principal, and HOD of the concerned department.
2. Feedback form of the students are collected at least two times in a year and appropriate actions are initiated for improvement of quality in teaching and learning process.
3. New methods like brain mapping and brainstorming sessions are encouraged, to develop critical learning ability among the students.
4. Guest lectures are arranged to supplement class room teaching with expert opinion.
5. Modern technology is employed to develop interest among the students for the subject.
6.Collaborative learning is undertaken through internship with industries, field trips, group projects and simulations.

8.As per the affiliating university norms in every semester three internal assessment examinations are conducted. For the same the committee with trained resource are executing the process to the expected levels of standard prescribed by examination office. This committee will cater to check the quality of question paper, conduction of examination and evaluation of answer scripts. Based on the performance of candidates their internal marks are awarded (as per the norms of the affiliating university).

6.3.3 Examination and Evaluation

- Upgrading the infrastructure facilities for evaluation and conduct of Examination.
- Constant evaluation of progress through class test, Paper presentation, Participation in research activities/ Group Discussion.
- Internal Marks allocation done after evaluation of Test Papers for both Theory and Practical Session.
- Acting as a nodal agency of the institution for quality-related activities

6.3.4 Research and Development

Encouragement to faculty for Departmental research activities, preparation of project, Research Forum for monitoring research activities.
Faculty members are actively involved in research& development and consultancy activities.

6.3.5 Library, ICT and physical infrastructure / instrumentation

E-Resources, Journals, CD's, E-Learning Centre, E-books, E-journals

6.3.6 Human Resource Management

Optimum utilization of skills and talent, Participation of Teachers in
1. Curricular & Extra Curricular Activities.
2. Extension activities.
3. Administrative Committee.
4. Basic Research Activities.
5. Research & Development Committee

6.3.7 Faculty and Staff recruitment

As per University / Govt., Norms .
To seek talent and qualified research Oriented Faculty
Faculty appointment approved by Management representative.

6.3.8 Industry Interaction / Collaboration

- All the departments have signed MoU with various Industries like Vi-Microsystems, Yokogawa, Trident Technologies, CADD Centre, RC Golden Granites, PANTech Sol. and ExcellaCom etc. to execute consultancy work.

- Faculties are advising for the student's vision to become a good human being along with the success in professional and personal front.

- The faculty members and students are motivated to submit their innovative projects for applying patent.

6.3.9   Admission of Students

> As per University guidelines and guide line issued by AICTE

6.4 Welfare schemes for

Teaching	PF, Insurance
Non teaching	ESI/PF
Students	Insurance

- Safety insurance to all.
- Fee concession to the wards of faculties in college and school.

6.5 Total corpus fund generated

> 13,87,43,359

6.6 Whether annual financial audit has been done   ☑ Yes   ☐ No

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	YES	TUV NORD	Yes	Co-ordinators
Administrative	YES	TUV NORD	Yes	Co-ordinators

6.8 Does the University/ Autonomous College declares results within 30 days?

For UG Programmes   Yes ☐   No ☑

For PG Programmes   Yes ☐   No ☑

6.9 What efforts are made by the University/ Autonomous College for Examination Reforms?

> Not applicable

6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?

> Not applicable

6.11 Activities and support from the Alumni Association

> ➢ S.A. ENGINEERING COLLEGE conducted the Alumni Meet on 26.1.2017 at its college premises.
> ➢ 575 Alumni attended the Alumni meet on 26.1.17
> ➢ Alumni are invited for the Programme Advisory Committee meeting along with other stake holders.
> ➢ Alumni feedback is obtained through questionnaires and utilized for measuring the Programme Outcomes and for applying corrective measures
> ➢ Alumini are invited to deliver guest lectures.
> ➢ They actively involve in symposiums and seminars.

6.12 Activities and support from the Parent – Teacher Association

PTA meetings are conducted in regular intervals. This meeting invites discussion between the faculty advisor and the parent of the ward. The discussion will be on performance of the ward during the lecture hours as well as in the three internal assessment examinations. The meeting will also invites the class advisor, subject handling faculty, professor (Senior Academician) and the Head of the department for any further course of discussion needed. This PTA meeting helps the parents to understand the performance of the ward and also the expectation of the institution from their ward. The motto of PTA is always two way communications and not one way dictation.

6.13 Development programmes for support staff

8 Programmes were organised

1. FDP on "TEAM BUILDING"
2. National Level Workshop on "Mathematical Modelling of Wireless Networks
3. Workshop On Internet of Things (IoT)
4. Workshop on "NS2 for Network Security
5. Seminar on "Avoiding Plagiarism"
6. Seminar on "E2E"
7. National Workshop on Data Science Research
8. International conference on Information, Communication and Embedded Systems(ICICES2017)

6.14 Initiatives taken by the institution to make the campus eco-friendly

---

a. **Use of renewable energy**
   Solar power is utilised for street lights.
   Solar water heaters in hostels.
b. **Rain water harvesting**
   All the buildings have rainwater harvesting systems.
c. **Energy conservation**
   In our college Class rooms have large windows, so natural light are sufficient
   during day time instead of using electric lights.RO technology
   Two power factor   controllers to conserve energy.
d.**Green plantations**
   Our campus is covered with green plantations. Tree plantations are organized
   regularly to create clean and green campus.
e. **Water treatment plant**
   Water treatment plant is available in the campus to treat all the waste water.
f. **Hazardous waste management**
   Hazardous chemicals are kept separately in the store room away from the reach of
   the students**.**
g. **e-waste**
   The e-waste generated is given to the authorized dealers who purchase the scrap
   and reuse the useful components.

Criterion – VII

7. Innovations and Best Practices

7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

> Induction programme (Bridge course) for all the students that join first year B.E. Programme that was initiated earlier gave good result and a clear change in the attitude of the students is evidently see and has been decided to continue this practice.

7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

> Series of curriculum workshops were organized with the help of senior and experienced faculty members in the IT industries.
>
> Rotaract Club Indore organized 'Blood Donation Camp',
>
> It was decided to improve the utilization of ICT resources, thus, a firewall has been installed in the whole campus. This helped in tracking the ICT usage level of students as well to restrict the unauthorized access.

7.3 Give two Best Practices of the institution *(please see the format in the NAAC Self-study Manuals)*

1. Assessment of Programme Outcome

2. Collabrative Research Activities

7.4 Contribution to environmental awareness / protection

> - NSS Unit of SAEC organized Human chain programme on "cleanliness is service"
> - Recycled water is utilized for maintaining green campus.
> - Rain water harvesting is done.
> - The leaves are buried in the soil itself. Waste materials are packed and disposed to the ITC vendor.
> - Two power factor controllers and uses of solar energy are the projects to improve and conserve energy.
> - Only emission tested vehicles are allowed inside the campus.
> - R.O installed in each and every floor of the blocks are tested for purity and maintenance done in replacing membranes periodically by Exel water systems private ltd.,
> - Sewage Treatment Plant of capacity 125 KLD is erectioned and commissioned by Sri Krish Entec private ltd., with raw sewage transfer pumps of flow 7.8 m^3/ hr , head 8m to 10m and sludge transfer pumps of flow 7.8 m^3/ hr , head 15m.
> - Also received Certificate of Appreciation from ITC LTD for recycling of waste materials and saving 100 trees.

7.5 Whether environmental audit was conducted?   Yes √   No

7.6 Any other relevant information the institution wishes to add. (for example SWOT Analysis)

Strengths of the Institution

Quality Education with an Environment of Academic Discipline
- Qualified and highly experienced Faculty.
- Fully Coputerized Library with high standards Standards.
- State of the art computing and Internet facilities (Wi-fi enabled).
- Extensive professional Co-curricular and Extra-curricular Activities.
- Intense Institute Industry Interaction and Partnership (CIIC).
- Personality,Communication,Soft Skill and Life Skill Development.
- Value added courses for enhancing Employability and Placement (CLX).
- Currriculum based Entrepreneurship Development associated with Governmental agencies,NGO's.
- Personalized mentoring and professional councelling.
- Student(SDP),Faculty (FDP),Management (MDP)&Leadership (LDP) Development Activities.
- Initiatives,Regular Publications of Department Newslet,College magazine and peer Reviewed International Journal.
- Research and Consultancy Projects with Nationalised agency and Industries.
- Exclusive Business Incubation centre funded by Government agencies.
- WIPO appreciated IP activities through CIPL.
- Located well within the Metropolis.
- Efforts for continuous Improvement through Planning,Dvelopment and adoption of kaizen Principle.

Weakness for the Institution
- Lack of adequate placements in core companies.
- The funding from International and National agencies to be improved.
- Lack of Research Publication in high impact factor journals and high h-factor index.

Opportunities for the Institution
- To become an autonomous Institute.
- Competence development process in the students may be improved so that a National level bench mark may be established.
- More MOUs with the Industry and academic universities/colleges.
- Apply for funding from various agencies.
- Improve the consultancy work.

Threats for the institution
- Foreign Universities and Deemed Universities (for new course and Management quota seats).
- Lack of commitment of a small group of students.
- Students with diverse background with the diverse needs.

8. **Plans of institution for next year**

> - Strengthening on existing international MOUs and entering newer MOUs
> - Enhancing the scope of consultancy and MDPs
> - Aiming for higher salary for students in placements
> - Quality improvements wherever possible in Administration, Examination and other processes

Name _____   *Name_____*

_____   _____

Signature of the Coordinator, IQAC   *Signature of the Chairperson, IQAC*

_____***__

Abbreviations:

CAS	-	Career Advanced Scheme
CAT	-	Common Admission Test
CBCS	-	Choice Based Credit System
CE	-	Centre for Excellence
COP	-	Career Oriented Programme
CPE	-	College with Potential for Excellence
DPE	-	Department with Potential for Excellence
GATE	-	Graduate Aptitude Test
NET	-	National Eligibility Test
PEI	-	Physical Education Institution
SAP	-	Special Assistance Programme
SF	-	Self Financing

SLET	-	State Level Eligibility Test
TEI	-	Teacher Education Institution
UPE	-	University with Potential Excellence
UPSC	-	Union Public Service Commission

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Annexure I- Academic Schedule

Annexure I- Academic Schedule

S.A ENGINEERING COLLEGE, CHENNAI – 600 077

ACADEMIC SCHEDULE FOR II SEM B.E/B.TECH,II SEM M.E&II SEM MBA ONLY

1. Reopening Day	:	22.01.2018
2. Unit Test I	:	09.02.2018 to 16.02.2018
3. Internal Assessment I	:	26.02.2018 to 05.03.2018
4. Unit Test II	:	14.03.2018 to 21.03.2018
5. Internal Assessment II	:	02.04.2018 to 07.04.2018
6. Completion of Lab Experiments	:	28.03.2018
7. Date of Syllabus Completion	:	16.04.2018
8. Date of Revision	:	17.04.2018 to 21.04.2018 (5 days)
9. Internal Assessment III	:	23.04.2018 to 30.04.2018
10. University Practical Exam	:	07.05.2018 to 12.05.2018 (Tentative)
11. Last Working Day	:	28.04.2018
12. Study Holidays	:	02.05.2018 to 06.05.2018 & 13.05.2018 to 16.05.2018 (10 Days)
13. University Theory Exam commences on	:	17.05.2018 (Tentative)
14. Reopening day for next Semester	:	Will be intimated later
15. Syllabus	:	a. IA I : Unit I and Unit II
		b. IAII : Unit III and Unit IV
		c. IA III : All five units

Note: 1.Model practical exam must be conducted in last lab class without fail.

2. Syllabus must be completed as per the lesson plan in time.

Copy to :

1.Principal
2.All HODs
3.Exam Cell
4.Data Processing Committee

DIRECTOR

S.A. ENGINEERING COLLEGE, CHENNAI - 77
SEMESTER PLAN FOR EVEN SEMESTER JANUARY 2017 -MAY 2018
(APPLICABLE FOR IV SEM B.E/B.TECH,II SEM VI/&II SEM MBA ONLY)

S.A. ENGINEERING COLLEGE, CHENNAI – 600 077

ACADEMIC SCHEDULE FOR IV,VI,VIII SEM B.E/B.TECH,IV SEM M.E/MCA/MBA & VI SEM MCA ONLY

1. Commencement of EVEN semester	:	13.12.2017
2. Unit Test I	:	10.01.18 to 19.01.18
3. Internal Assessment I	:	31.01.2018 to 07.02.2018
	:	31.01.2018 to 05.02.2018 (VIII Semester- B.E / B.TECH)
4. Unit Test II	:	19.02.18 to 26.02.18
5. Internal Assessment II	:	07.03.18 to 14.03.18
	:	07.03.2018 to 12.03.2018 (VIII Semester- B.E / B.TECH)
6. Completion of Lab Experiments	:	02.03.17
7. Date of Syllabus Completion	:	22.03.18
8. Date of Revision	:	23.03.18 to 29.03.18(5 Days)
	:	26.03.2018 to 28.03.2018 (VIII Semester- B.E / B.TECH)
9. Internal Assessment III	:	02.04.18 to 07.04.18
	:	02.04.2018 to 05.04.2018 (VIII Semester- B.E / B.TECH)
10. University Practical Exam	:	12.04.18 to 18.04.18
11. Last Working Day	:	07.04.18
12. Study Holidays	:	09.04.18 to 11.04.18 & 19.04.18 to 22.04.18
	:	06.04.2018 to 11.04.2018
		& 19.04.18 to 22.04.18 (VIII Semester- B.E / B.TECH)
13. University Theory Exam commences on	:	23.04.18
14. Reopening day for next Semester	:	Will be intimated later
15. Syllabus	:	a. IA I : Unit I and Unit II
		b. IA II : Unit III and Unit IV
		c. IA III: All five units

Note: 1. Model practical exam must be conducted in first lab class without fail.
2. Syllabus must be completed as per the lesson plan in time.
3. Third Saturday is working day for all faculty members.
4. All must complete Value added course before IA I

Copy to :
1.Principal
2.All HODs
3.Exam Cell
4.Data Processing Committee

DIRECTOR

S.A. ENGINEERING COLLEGE, CHENNAI - 77
SEMESTER PLAN FOR EVEN SEM DECEMBER 2017 - APRIL 2018
ACADEMIC SCHEDULE FOR IV, VI SEM B/B.TECH., IV SEM M.E/MCA/MBA & VI SEM MCA ONLY

Annexure II- Event Planner

S.A ENGINEERING COLLEGE
EVENT ACTIVITY PLANNER FOR DEC- APRIL 2017 (EVEN SEMESTER)

Annexure III

PRO F01

S.A ENGINEERING COLLEGE, CHENNAI – 600 077

ACADEMIC SCHEDULE FOR IV SEM M.C.A & II SEM M.E AND M.B.A ONLY

1. Reopening Day	:	09.01.17 (II. Year M.C.A)
	:	18.01.17 (I Year M.B.A & M.E)
2. Internal Assessment I	:	15.02.17 to 22.02.17 (for M.E)
	:	15.02.17 Onwards (for M.B.A & M.C.A)
3. Internal Assessment II	:	23.03.17 to 31.03.17 (for M.E)
	:	23.03.17 Onwards (for M.B.A & M.C.A)
4. Date of Syllabus Completion	:	05.04.17
5. Date of Revision	:	06.04.17 to 07.04.17
6. Internal Assessment III	:	10.04.17 to 17.04.17 (for M.E)
	:	10.04.17 Onwards (for M.B.A & M.C.A)
7. University Practical Exam	:	18.04.17 to 21.04.17(TENTATIVE)
8. Last Working Day	:	17.04.17
9. Study Holidays	:	24.04.17 to 09.05.17
10. University Theory Exam commences on	:	10.05.17
11. Reopening day for next Semester	:	Will be intimated later
12. Syllabus	:	a. IA I : Unit I and Unit II
		b. IA II : Unit III and Unit IV
		c. IA III : All five units

Note: 1.Model practical exam must be conducted in last lab class without fail.

2. Syllabus must be completed as per the lesson plan in time.

3.Third Saturday is working day for all staff members.

Copy to :

1.Principal
2.All HODs
3.Exam Cell
4.Data Processing Committee

DIRECTOR

Analysis of feedback

STUDENT FEEDBACK CONSOLIDATION
Academic Year: 2017-18 EVEN

S.No	Name of the faculty	Class	Subject handled	Feedback obtained	Action taken	Corrective measures	Follow-up action
1.	Mr.D.Prakash	IV-B	HVDC	Need to encourage students to ask questions and then provides appropriate answer	HOD suggested to be more interactive to the students	Faculty spent some time to ask questions before every class	No such feedback from the students in next semester

Academic Year: 2017-18 ODD

S.No	Name of the faculty	Classes	Subject handled	Feedback obtained	Action taken	Corrective measures	Follow-up action
1.	Mr.Kamalakannan.R	II	EVS	Failed to do some methods to hold students maintain interest in course	HOD suggested to provide some videos related to the course	Shown NPTEL videos	Recorded in Logbook
2.	Mr.P.Vinothkumar	III	PPE	Less Interactive delivery skills	HOD suggested to be more interactive by asking some questions and by forming group activities	Organized group activities and thereby made the class interactive	Recorded in Logbook

Annexure IV- Best Practices

1. Title of practice:

Assessment of Programme OutcomeGoal:

2.Goal:

The aim of the practice " Assessment of program outcome" followed by the institute is to create a platform to increase Students Performance and Placement, motivation for higher studies to improve global economy and faculty productivity.

3.The Context:

Analysis of the semester result is done by Academic Council to evaluate the performance of the students in every semester and corrective actions are taken to improve the results if required. The placement records of every year are regularly analyzed and industry feedbacks are taken for their employees from this Institute. More industry oriented training is imparted to students for enhancing their skill. Innovative project works are given to students to enhance their ability to take up higher education and research in the recent technological fields.

Student"s feedback is taken for each respective faculty in every semester and the same is analyzed by the Academic Committee to fill up any gap area associated with their performance. 360 Degree evaluation (Students feedback, Head of the Department,s report, Principal,s report, Administrative feedback) for faculty is done. Weaknesses of the faculty members are foundand accordingly, training and orientation programme are arranged for them as corrective action.

All faculty members are encouraged to take up research work and 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

Mapping the distribution of responsibilities in teaching and learning to effect significant Strategic change and enforce institution-wide policies. Capability of the concernedfaculty is identified for successful implementation of reforms within and acrossdepartments to strengthen their commitment to improving quality teaching.Heads of departments is given explicitresponsibilities for fostering quality teaching and learning and to ensure that the leadership responsibilities arematched with the resources and the tools needed to deliver results.

An environment is created where everyone (teacher, student, support staff, etc.) operates within a clearly identifiable leadership structure. It is ensured that the teaching and learning framework can be easily adapted by each faculty member to reflect their values, ethos and modus operandiand then applied in their own teaching practice.

Progress in implementing the teaching and learning framework across each levelof the institute is monitored and reports are analyzed by the heads of departments and Principal. Appropriate platforms exist for sharing experience andinitiatives across the institute.

5. Evidence of Success

Evidence of success in performance against targets and benchmarks andreview of results exist. The student"s performance in university examinationhas been gradually improving. Many faculty members have completed andawarded Ph.D. degree and some more are inthe final stage of submission of their Ph.D Thesis. This practice helps inincreasing the number of research publications nationally and internationally by the faculty members. Students are also highly motivated for doing innovative projects and won prizes in technical competitions and published their research papers inconferences and workshops. Students are also inclined to pursue

highereducation to quench their thirst to acquire knowledge of modern technology.This helps to enrich the society and improve the quality of life.

6. Problems Encountered and Resources Required:

There are some problems in implementing this practice due to lack of concentration of the students in their studies. Sometimes more efforts have to be implemented to make the weak students to study well. The staff members are taking special classes for the weak students and conducting regular tests for the benefit of the students.Even though sometimes there will be decrease in percentage. Regular tests and separate assignment books are provided for problematic subjects to improve the knowledge of the student. Continuous monitoring and counseling are done to the students to bring out the best from them. The management provides full support to implement necessary things which helps to improve the the knowledge of the student. Continuous monitoring and counselling are done to the students to bring out the best from them. The management provides full support to implement necessary things which helps to improve the student's carrier. The institute also provides funds, which greatly helps in upgrading research laboratories for conducting seminars, symposiums and for promoting this practice.

2) 1. Title of the Practice:

Collaborative Research Activities

2. Objectives of the Practice

- The Research & Development is to facilitate academic research for the development of the academicians and the institution.

- It aims to bring about a dynamic equibrillium 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

Research at SAEC is nutured through various academic programs run by the different departments. The sponsored research has contributed in terms of development and technology. SAEC is committed to knowledge transfer and engage in technology transfer and economic development activities that benefit the society .

4. The Practice

- o Devise strategies to assist the research scholars in meeting their research objectives.

- o Periodical review of research strategies and plans of individual department through road map

- o Analysing the roadmap areas for initializing inter disciplinary research

- o   Identification of new initiatives and opportunities in the innovation areas

- 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 Centre 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

The research activities are funded from organization such as AICTE, MRNE, SERB,CSIR, DRDO,etc., more grants are received for various projects. More number of staff is doing their PhD's. Staff has published papers in various Journals and in International Conferences.

6. Problems Encountered and Resources Required

The reception of funds for the implementation part of the project. Sometimes high cost is involved in executing research activities specifically concerning capital equipments. The management partially provides optimum funds to implement the research practice to the possible extend. The institute also receives funds from outside agencies, which greatly helps in upgrading research laboratories and promoting this practice.

To start interdisciplinary course/programme to bring out consultancy work.