Annual Quality Assurance Report (AQAR) of the IQAC
Academic year: 2016-2017

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.

Part – A

1. Details of the Institution

1.1 Name of the Institution

> S.A.ENGINEERING COLLEGE

1.2 Address Line 1

> POONANMALLEE – 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:

> Mr.S.Sridhar

Mobile:

> 91-9841213183

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:** | EC(SC)/05/A&A/033
(For Example EC/32/A&A/143 dated 3-5-2004.
This EC no. is available in the right corner- bottom
of your institution's Accreditation Certificate)

1.5 Website address: | WWW.SAEC.AC.IN

Web-link of the AQAR: | www.saec.ac.in/IQAC/IQAC-REPORTS/AQAR-2016-2017.pdf

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)* | 2016 - 17

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 (IQAR_- 2014-2015 ODD) submitted to NAAC on (02/12/2014)
 ii. AQAR (IQAR_- 2014-2015 EVEN) submitted to NAAC on (21/08/2015)
 iii. AQAR (IQAR_- 2015-2016 ODD) submitted to NAAC on (17/02/2016)
 iv. AQAR (IQAR_- 2014-2015 EVEN) submitted to NAAC on (07/09/2016)

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 ☐

(AICTE Approved)

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 (Phys Edu) ☐

     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
09

2.2 No. of Administrative/Technical staff
10

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
02

2.7 No. of Employers/ Industrialists
02

2.8 No. of other External Experts
02

2.9 Total No. of members
40

2.10 No. of IQAC meetings held
01

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 | 2 | State | - | Institution Le | 6

(ii) Themes

Workshops on Accreditation

2.14 Significant Ad

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 feedbacks

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.
To perform regular Academic Audits during Semester	Under the steering of Principal, regular academic audits were conducted to ensure the standing of syllabus completion, augmented syllabus, Internal Assessments, Seminars, Best Projects, Best Results etc.
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 and advanced 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 sort of assistances were provided for students innovative projects from Entrepreneurship cell

Annexure I – Academic Calendar

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.

Part – B

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	4	-	4	-
PG	7	-	7	VAC -2 COP - 3
UG	6	-	6	**VAC- 18** **COP-3**
Total	17	-	17	26

Interdisciplinary	-	-	-	2

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

Pattern	Number of programmes
Semester	6 UG 7 PG
Trimester	-
Annual	-

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

Mode of feedback   :   Online | √ | Manual

The Annual Quality Assurance Report (AQAR)

*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.

All NAAC accredited institutions will submit an annual self-reviewed progress

NO

its IQAC. The report is to detail the tangible results achieved in key areas, sp

institutional IQAC at the beginning of the academic year. The AQAR wi

perspective plan worked out by the IQAC. *(Note: The AQAR period would*

1.5 Any new Department/Centre introduced during the year. If yes, give details. No

Part – A

I. Details of the Institution

1.1 Name of the Institution

1.2 Address Line 1

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
264	185	49	30	2

2.2 No. of permanent faculty with Ph.D.

33

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

Asst. Professors		Associate Professors		Professors		Others		Total	
R	V	R	V	R	V	R	V	R	V
42	0	1	0	4	0	0	0	47	0

2.4 No. of Guest and Visiting faculty and Temporary faculty

-	1	-

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	79	81	NIL
Presented	143	50	NIL
Resource Persons	15	6	8

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

during this academic year

| 166 |

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

| - | 2 | - |

as member of Board of Study/Faculty/Curriculum Development workshop

2.10 Average percentage of attendance of students

| >92 |

2.11 Course/Programme wise   distribution of pass percentage:

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
B.E - CIVIL	67	1.49	49.25	19.4	-	70.15
B.E CSE	158	-	77.21	6.9	-	84.17
B.E (ECE)	169	1.77	76.33	8.96	-	85.79
B.E (EEE)	120	1.66	65	16.6	-	83.33
B. Tech (IT)	57	-	78.9	3.5	-	82.45
B.E(MECH)	142	-	74.64	4.9	-	79
M.E (CAD/CAM)	5		100		-	100
M.E(CSE)	5	20	80	-	-	100
M.E(Comm. Sys)	7	14.28	71.42	-	-	85.71
ME (EST)	1	-	-	-	-	-
ME (PED)	3	100	-	-	-	100
MBA	86	2.32	77.9	5.81	-	86.04
MCA	59	3.38	88.13	1.69	-	93.22

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.
- Counseling and seminar programme conducted regular intervals.
- 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*
Staff training conducted by the university	65
Staff training conducted by other institutions	134
Summer / Winter schools, Workshops, etc.	214
Others	5

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	-	2	-
Technical Staff	176	-	53	-

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	02	03	03	82
Outlay in Rs. Lakhs	28.2	316.58	16.80	716.33

3.3   Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	03	-	03	8
Outlay in Rs. Lakhs	0.3	-	0.3	1.05

3.4   Details on research publications

	International	National	Others
Peer Review Journals	208	4	-
Non-Peer Review Journals	68	-	-
e-Journals	276	4	-
Conference proceedings	126	109	-

3.5 Details on Impact factor of publications:

Range [Citations - 1135] Average [i10 index- 37] h-index [18] Nos. in SCOPUS [63]

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 Detection and Discrimination of Coral Reefs using Hyperspectral Data	3	DST-HSRS	26,58,700	19,00,000
Major project -2 – Study of Sensors and Signals for Health and usage monitoring System (HUMS) for ECJB of ARJUN MBT	2	DRDO-CVRDE	14,90,000	Will Receive the First instalment during the year 2017-18
Major project-3- Study encompass Load flow Fault studies, Transients and critical clearing type	1	Universiti Tenanga Nasional, Malaysia	RM13,500 (Rs.2,29,500)	Amount yet to receive
Major projects	3	DST(ICPS)	2658700.00	1450000.00
Minor Projects	6 months	Net Academy	Rs.26,000	Rs.26,000
Minor Projects -1- **Management Device with Smart Vivasayam app to aid the Farmers**	6 Months	TNSCST	10,000	10,000
Minor Projects – 2 - **Harvesting Energy From Piezo-Electric Pavement**	6 Months	TNSCST	10,000	10,000
Minor Projects – 3 - **Generation and**	6 Months	TNSCST	10,000	10,000

Testing of Bio oil from prospisjuliflora				
Interdisciplinary Projects	-	-	-	-
Industry sponsored	6 months	65 companies	Rs.1,31,500	Rs.1,31,500
Projects sponsored by the University/ College	-	-	-	-
Students research projects *(other than compulsory by the University)*	3 months	Arm University	Rs. 4000	Rs. 4000
Any other(Specify)	-	-	-	-
Total	-	-	7228400.00	3541500

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

ii) Without ISBN No. | **-01** |

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

3.9 For colleges   Autonomy | - | CPE | - | DBT Star Scheme | - |

INSPIRE | - | CE | - | Any Other (specify)

| DST-HSRS, DST-SERB, DST-FAST TRACK, ISRO, AICTE CVRDE, TNSCST |

| **Rs.4,22,000/-** |

DST-ICPS | 1 |

3.10 Revenue generated through consultancy   NIL

3.11 No. of conferences organized by the Institution

Level	International	National	State	University	College
Number	02	01	NIL	NIL	NIL
Sponsoring agencies	IEEE	ISTE	NIL	NIL	NIL

| 76 |

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

3.13 No. of collaborations (MOU)   International - National 05   Any other -

3.14 No. of linkages created during this year   05

3.15 Total budget for research for current year in lakhs :

From Funding agency   Rs.46,61,656   From Management of University/College   Rs.89,44,000/-

Total   **Rs.1,36,05,656/-**

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	02
	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
36	6	13	3	8	-	6

3.18 No. of faculty from the Institution   20
who are Ph. D. Guides
and students registered under them   91

3.19 No. of Ph.D. awarded by faculty from the Institution   5

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   540

National level -   International level -

3.22 No. of students participated in NCC events: NIL

University level [-]   State level [-]

National level [-]   International level [-]

3.23 No. of Awards won in NSS:

University level [-]   State level [-]

National level [-]   International leve [-]

3.24 No. of Awards won in NCC: NIL

University level [-]   State level [-]

National level [-]   International level [-]

3.25 No. of Extension activities organized

University forum [-]   College forum [-]

NCC [-]   NSS [04]   Any other [-]

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

Consolidated Social Service Activities 2016-17

S.No.	Date	Name of the Programme	Venue	Organized	Beneficial
1	26.1.2017	Tree plantation	SAEC	NSS Unit of SAEC	100 Saplings
2	4.2.2017	Cancer Awareness program	SAEC	NSS Unit &Rotaract club	500 students

3	13.3.2017	Blood donation Camp	SAEC	YRC Unit and Lions club	400 Units
4	14.3.2017	Blood donation Camp	SAEC	NSS Unit and Aarthi scans	270 units
5	14.3.2017	Digital India Awareness program	MBA Seminar hall	NSS Unit &Rotaract club	200 students

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	38457 m^2	4296 m^2	Trust	
Class rooms	63	-		63
Laboratories	28	-		28
Seminar Halls	07	-		07
No. of important equipments purchased (≥ 1-0 lakh) during the current year.		33	Self Finance	33
Value of the equipment purchased during the year (Rs. in Lakhs)		33.26 LAKHS	Self Finance	33.26 lakhs
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 available to access the e- resources through intranet and Mobile Application.

4.3 Library services:

	Existing		Newly added		Total	
	No.	**Value**	**No.**	**Value**	**No.**	**Value**
Text Books	51072	11914790	1139	169397	55732	12084187
Reference Books	2886	700870	30	4578	2916	705448
e-Books	9715	NIL	9715	NIL	8148	
Journals	85	1280503	98	2,36,710	183	1513713
e-Journals	IEL, IEEE, ASME,ASCE,FKA -DEL	3819530	IEEE, SCIENCE DIRECT	1119109	IEL, IEEE, ASME, ASCE, FKA-	4938639

					DEL, SCIENCE DIRECT	
Digital Database	DELNET	126500.00	DELNET, NDL	13598.00	DELNET	140098
CD & Video	6088	NIL	528	NIL	6616	-
Others (specify)	-	-	-	-	-	-

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Depart-ments	Others
Existing	*1123*	**19**	**45 Mbps**	**1**	**1**	**1**	**9**	
Added	29	2 (IT RD & ECE)	19	0	0	0	0	
Total	1152	21	64	1	1	1	9	

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

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

4.6 Amount spent on maintenance in lakhs :

i) ICT   24.67132

ii) Campus Infrastructure and facilities   88.97893

iii) Equipments   23.60628

iv) Others   156.17827

Total :   293.43480

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
3070	384	-	-

(b) No. of students outside the state

4

(c) No. of international students

-

Men

No	%
2129	61.63

Women

No	%
1325	38.37

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
450	407	4	2621	-	3482	306	371	5	2772	NIL	3454

Demand ratio = 84.16 %   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

47

5.5 No. of students qualified in these examinations

NET `0` SET / SLET `0` GATE `01` CAT `0`

IAS/IPS etc `0` State PSC `0` UPSC `0` Others `3`

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 `638`

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
142	868	589	125

5.8 Details of gender sensitization programmes

1. **AWARENESS PROGRAM ON CYBER SECURITY (CYBER BULLYING AND HARASSMENT) IN SOCIAL MEDIA" ON 06-02-2017**

2. **Leadership on 3/3/2017**

5.9 Students Activities

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

State/ University level 606 National level 25 International level

No. of students participated in cultural events

State/ University level 422 National International level

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

Sports : State/ University level 60 National level International level

Cultural: State/ University level 4 National level International level

5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution	-	-
Financial support from government	1374	Rs.20714160
Financial support from other sources	-	-
Number of students who received International/ National recognitions	-	-

5.11   Student organised / initiatives

Fairs   : State/ University level [   ]   National level [2]   International level [   ]

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

5.12   No. of social initiatives undertaken by the students   [7]

5.13 Major grievances of students (if any) redressed:

DATE	DEPT	NAME	CLASS/ SEM	NATURE OF THE COMPLAINT	ACTION TAKEN
30.12.2016	MBA	KAVYA.G	II/III	Ladies Rest room door not locking	RECTIFIED
23.01.2017		AKSHYA.R	I/I	LH1 Projector Not Working	RECTIFIED
26.05.2017		WINSTON BENJAMIN	II/III	Ground floor cooler- water smell	RECTIFIED
27.06.2016	ECE	LAKSHMI JASHMITHA	II/III	Cooler not proper and leaking in I floor ECE block	RECTIFIED
11.02.2017		PREMA.S.V	II/IV	Breakfast are not provided in proper timing in ladies hostel	RECTIFIED
20.02.2017		ATLAAPRAVEEN KUMAR	IV/VIII	ECT04 Projector not working	RECTIFIED

10/02/17	IT	S.Meena	II/III	Unit 2 completed Lecture notes and question bank is required	RECTIFIED
04/08/2016		M.Pavithra	II/III	More Explanation needed Concepts not understood in some topics in Unit 1 & Unit 2	RECTIFIED
10.10.17		D.Jayashree	IV/VII	BENCH DAMAGED	RECTIFIED
17.8.16		Sangeethja.A	IV/VII	Water log in the second Floor	RECTIFIED
19.8.16		Prinyanka.S	IV/VII	Light is Blinking in the class room	RECTIFIED
11.01.17	CIVIL	GopalaKrishnan	III/VI	Railways,Airport and Harbour engineering-Students needed to be dictated and power point presentation for explanation	RECTIFIED
09.03.17		Aarthi Krishna	II/IV	Strenght of Materials: Need more problems to be solved for practices.	RECTIFIED
06.03.17		Prakadesh.R.T.	II/IV	Quality of hostel food is not good.	RECTIFIED
14.10.17		V.ABIRAMI	I/I	Computer Programming: Not able to understand programming. Fast in teaching the programs	RECTIFIED
07.11.16		SANJU KUMAR . V	I/I	COMPUTER PROGRAMMING :FEW STUDENTS ARE UNABLE TO UNDERSTAND PROGRAMMES	RECTIFIED
10.02.17		PREETHI.S	I/II	TECHNICAL ENGLISH II TEACHING IS NOT CLEAR AND TOO FAST	RECTIFIED

		M. PRAVIN KUMAR	I/II	BASIC ELECTRICAL AND ELECTRONICS ENGINEERING:NOT ABLE TO UNDERSTAND. NEED MORE EXPLANATION	RECTIFIED
10.02.17					
14.03.17		K. AMAL MOHAN	I/II	BASIC CIVIL AND MECHANICAL ENGINEERING Students need notes.	RECTIFIED
30.03.17		E.SABARICEN	I/II	PROGRAMMING AND DATA STRUCTURES:Teaching is understandable. Students need notes	RECTIFIED
08.08.16		DEVARAJ. A M	II/III	LINEAR INTEGRATED CIRCUITS AND APPLICATIONS: NEED SOME BASIC IDEAS TO UNDERSTAND CLEARLY.	RECTIFIED
07.08.16	EEE	AKSHAYA.S	III/V	POWER SYSTEM ANALYSIS : NEED MORE DETAILED EXPLANATION FOR PROBLEMS.	RECTIFIED
04.10.16		KANNAN.S	III/V	CANTEEN FOOD IS NOT GOOD	RECTIFIED
10.8.16		SARASWATHI	IV/VII	NEED WHITE BOARD FOR IV-B STUDENT	RECTIFIED
31.03.17		PON NIVEDHA	III/VI	NEED FIRST HOUR FOR PREPARING TO THE IA-II TEST.	RECTIFIED

Criterion – VI

6. Governance, Leadership and Management

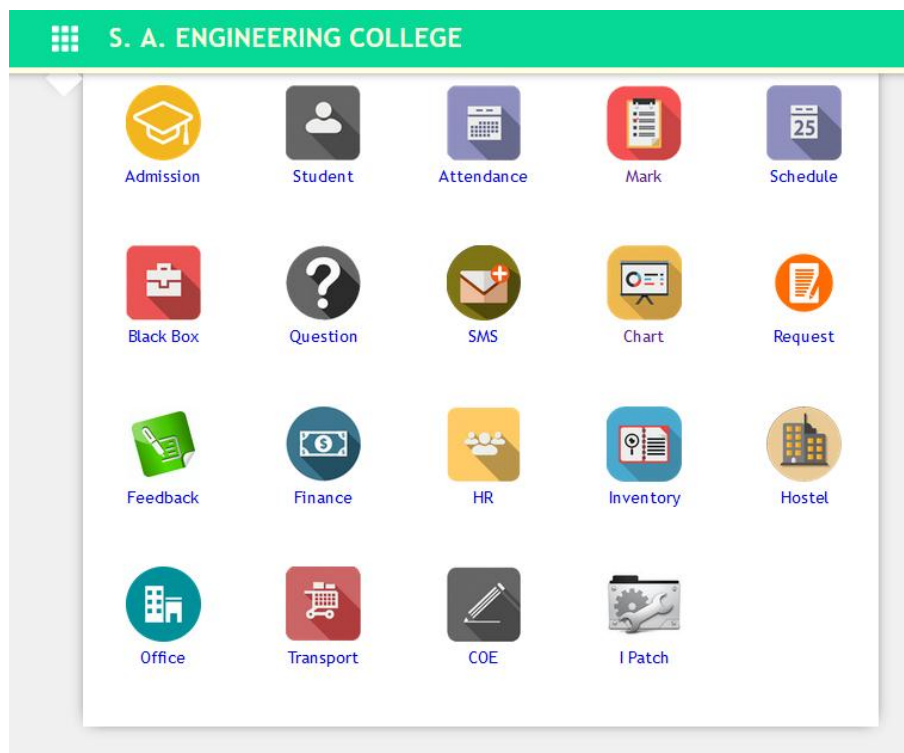6.1 State the Vision and Mission of the institution

> **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.

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.

7.Independent learning is encouraged through e-learning. Critical thinking is sharpened in the final year through a research project. Some innovative teaching methods used include learning through projects, case studies,poster,lab,web etc.

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 are signed MoU with various Industries like Vi-Microsystems, Yokogawa, Trident Technologies, CADD Centre, RC Golden Granites, PANTech Solutions and ExcellaCom etc. to execute consultancy work.

- The above industries are periodically providing In-Plant Training and Internship Training to our students to improve their practical exposure with latest technological development.

- Exploring new horizons of all department area towards corporate entry, selection and success.

- 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.
c.   **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 area as well as the experts from the IT industries. All Six semester of BCA have been revised and implemented.
>
> 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. It has reduced the problem of viruses at major level and helped in protection of data

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. Collaborative 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 Computerized 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).
- Curriculum based Entrepreneurship Development associated with Governmental agencies, NGO's.
- Personalized mentoring and professional counselling,
- Student (SDP), Faculty (FDP), Management (MDP) & Leadership (LDP) Development Activities.
- Initiatives; Regular Publication of Departmental 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, Development and adoption of Kaizen Principle.

Weakness for the Institution
- Lack of adequate placements in core companies
- The funding from International and national agenises 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 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 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

****

Annexure I - Academic Calendar

PROF01

S.A ENGINEERING COLLEGE, CHENNAI – 600 077

ACADEMIC SCHEDULE FOR V SEM&VII SEM BE/B.TECH ONLY   Revised -I.

1. Reopening Day	:	23.06.2016
2. Unit Test I	:	18.07.2016 to 25.07.2016
3. Internal Assessment I	:	03.08.2016 to 10.08.2016
4. Unit Test II	:	22.08.2016 to 29.08.2016
5. Internal Assessment II	:	07.09.2016 to 14.09.2016
6. Completion of Lab Experiments	:	09.09.2016
7. Date of Syllabus Completion	:	21.09.2016
8. Date of Revision	:	22.09.2016 & 23.09.2016 (2 days)
9. Internal Assessment III	:	26.09.2016 to 01.10.2016
10. University Practical Exam	:	03.10.2016 to 08.10.2016(Tentative)
11. Last Working Day	:	20.10.2016
12. Study Holidays	:	09.10.2016 to 23.10.2016(10 days)
13. University Theory Exam commences on	:	24.10.2016
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 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

SEMESTER PLAN FOR ODD SEMESTER JUNE 2016 -OCTOBER 2016

(APPLICABLE FOR V &VII SEM B.E/B.TECH ONLY)

PROF01A

DATE	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER
1		RC 7	RC 28	RC 50	RC 71 (IA III ENDS)
2		SAT	RC 29(UNIT II COMPLETION)	RC 51	SUNGANDHI JAYANTHI)
3		SUN	BC 30(IA I STARTS)	SAT	RC 72(UNIVERSITY PRACTICAL EXAM COMMENCES)(TENTATIVE)
4		RC8(PLACEMENT TRAINING)	RC 31	SUN	RC 73
5		RC9(PLACEMENT TRAINING)	RC 32	HOLIDAY(VINAYAKAR CHATHURTHI)	RC 74
6		RC10(PLACEMENT TRAINING)	SAT	RC 52(UNIT IV COMPLETION)	RC 75
7		RC11(PLACEMENT TRAINING)	SUN	RC 53(IA II STARTS)	RC 76
8		RC12(PLACEMENT TRAINING)	RC 33	RC 54	RC 77 (UNIVERSITY PRACTICAL EXAM ENDS)(TENTATIVE)
9		(PLACEMENT TRAINING)	RC 34	RC 55(LAB SYLLABUS COMPLETION)	SUN
10		SUN	RC 35(IA I ENDS)	SAT	HOLIDAY(AYUTHA POOJA)
11		RC 13	RC 36	SUN	HOLIDAY(VIJAYA DASAMI)
12		RC 14	RC 37	RC 56	RC 78(MUHARRAM)
13		RC 15	SAT(SYMPOSIUM)	RC 57(BAKRID)	RC 79
14		RC 16	SUN	RC 58(IA II ENDS)	RC 80
15		RC 17(UNIT I COMPLETION)	HOLIDAY(INDEPENDENCE DAY)	RC 59	SAT
16		SAT	RC 38	RC 60	SUN
17		SUN	RC 39	SAT	RC 81
18		RC 18(UNIT TEST I STARTS)	RC 40	SUN	RC 82
19		RC 19	RC 41(UNIT III COMPLETION)	RC 61	RC 83
20		RC 20	SAT	RC 62	RC 84 (LAST WORKING DAY)
21		RC 21	SUN	RC 63(UNIT V COMPLETION)	
22		RC 22	RC 42(UNIT TEST II STARTS)	RC 64(REVISION)	SAT
23	RC 1(RE OPENING DAY)	SAT	RC 43	RC 65(REVISION)	SUN
24	RC 2	SUN	RC 44	SAT	UNIVERSITY THEORY EXAM COMMENCES
25	SAT	RC 23(UNIT TEST I ENDS)	RC 45	SUN	
26	SUN	RC 24	RC 46	RC 66(IA III STARTS)	
27	RC 3	RC 25	SAT	RC 67	
28	RC 4	RC 26	SUN	RC 68	
29	RC 5	RC 27	RC 47(UNIT TEST II ENDS)	RC 69	SAT(DEEPAVALI)
30	RC 6	SAT	RC 48	RC 70	SUN
31		SUN	RC 49		

DIRECTOR

PROF01

S.A ENGINEERING COLLEGE, CHENNAI – 600 077

APPLICABLE FOR III SEM M.E, III &V SEM MCA&III SEM MBA ONLY Revised

1. Reopening Day	:	04.07.2016 (III SEM M.E, V SEM MCA&III SEM MBA)
	:	11.07.2016 (V SEM MCA)
2. Internal Assessment I	:	17.08.2016 to 24.08.2016
3. Internal Assessment II	:	21.09.2016 to 28.09.2016
4. Completion of Lab Experiments	:	30.09.2016
5. Date of Syllabus Completion	:	07.10.2016
6. Date of Revision	:	12.10.2016&13.10.2016(2 Days)
7. Internal Assessment III	:	14.10.2016 to 21.10.2016
8.University Practical Exam	:	24.10.2016 to 26.10.2016 (Tentative)
9. Last Working Day	:	08.11.2016(ME&MCA)
	:	15.11.2016(MBA)
10. Study Holidays	:	29.10.2016 to 13.11.2016 (15 days For M.E&MCA)
	:	29.10.2016 to 20.11.2016 (22 days For MBA)
11. University Theory Exam commences on	:	14.11.2016(M.E&MCA)
	:	21.11.2016(MBA)
12. Reopening day for next Semester	:	Will be intimated later
13. 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.

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

DIRECTOR

S.A. ENGINEERING COLLEGE, CHENNAI - 77
SEMESTER PLAN FOR ODD SEMESTER JULY 2016 -NOVEMBER 2016
(APPLICABLE FOR III SEM M.E,III &V SEM MCA&III SEM MBA ONLY)

PROF01A

DATE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER
1		RC 16	RC 38 (UNIT III COMPLETION)	SAT	RC 80
2		RC 17	RC 39	SUN(GANDHI JAYANTHI)	RC 81
3		RC 18	SAT	RC 59	RC 82
4		RC 19	SUN	RC 60	RC 83
5		RC 20	HOLIDAY(VINAYAKAR CHATHURTHI)	RC 61	SAT
6		SAT	RC 40	RC 62	SUN
7		SUN	RC 41	RC 63 (UNIT V COMPLETION) (SYLLABUS COMPLETION)	RC 84
8		RC 21	RC 42	SAT	RC 85 (LAST WORKING DAY FOR ME&MCA)
9		RC 22	RC 43	SUN	
10		RC 23	SAT	HOLIDAY(AYUTHA POOJA)	
11	RC 1	RC 24	SUN	HOLIDAY(VIJAYA DASAMI)	
12	RC 2	RC 25(UNIT II COMPLETION)	RC 44	RC 65 (MUHARRAM)(REVISION)	SAT
13	RC 3	SAT(SYMPOSIUM)	RC 45 (BAKRID)	RC 66 (REVISION)	SUN
14	RC 4	SUN	RC 46	RC 67(IA III STARTS)	(UNIVERSITY EXAM STARTS FOR ME&MCA)
15	RC 5	HOLIDAY(INDEPENDENCE DAY)	RC 47	SAT	(LAST WORKING DAY FOR MBA)
16	SAT	RC 26	RC 48	SUN	
17	SUN	RC 27(IA I STARTS)	SAT	RC 68	
18	RC 6	RC 28	SUN	RC 69	
19	RC 7	RC 29	RC 49	RC 70	
20	RC 8	SAT	RC 50(UNIT IV COMPLETION)	RC 71	SAT
21	RC 9	SUN	RC 51 (IA II STARTS)	RC 72(IA III ENDS)	SUN
22	RC 10	RC 30	RC 52	SAT	(UNIVERSITY EXAM STARTS FOR MBA)
23	SAT	RC 31	RC 53	SUN	
24	SUN	RC 32 (IA I ENDS)	SAT	RC 74(UNIVERSITY PRACTICAL EXAM STARTS)(TENTATIVE)	
25	RC 11	RC 33	SUN	RC 75	
26	RC 12	RC 34	RC 56	RC 76(UNIVERSITY PRACTICAL EXAM ENDS)(TENTATIVE)	SAT
27	RC 13 (UNIT I COMPLETION)	SAT	RC 55	RC 77	SUN
28	RC 14	SUN	RC 56 (IA II ENDS)	RC 78	
29	RC 15	RC 35	RC 57	SAT(DEEPAVALI)	•
30	SAT	RC 36	RC 58(LAB SYLLABUS COMPLETION)	SUN	
31	SUN	RC 37		RC 79	

DIRECTOR

PROF01

S.A ENGINEERING COLLEGE, CHENNAI – 600 077

ACADEMIC SCHEDULE FOR III SEM B.E/B.TECH ONLY   Revised I

1. Reopening Day	:	04.07.2016
2. Unit Test I	:	26.07.2016 to 03.08.2016
3. Internal Assessment I	:	10.08.2016 to 18.08.2016
4. Unit Test II	:	25.08.2016 to 01.09.2016
5. Internal Assessment II	:	12.09.2016 to 19.09.2016
6. Completion of Lab Experiments	:	16.09.2016
7. Date of Syllabus Completion	:	21.09.2016
8. Date of Revision	:	22.9.2016&23.09.2016
9. Internal Assessment III	:	26.09.2016 to 01.10.2016
10.University Practical Exam	:	03.10.2016 to 08.10.2016 (Tentative)
11. Last Working Day	:	20.10.2016
12. Study Holidays	:	09.10.2016 to 23.10.2016 (10 days)
13. University Theory Exam commences on	:	24.10.2016
14. Reopening day for next Semester	:	Will be intimated later
15. Syllabus	:	a. IA I : Unit I and Unit II
		b. IAII : UnitIII 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 ODD SEMESTER JUNE 2016 -OCTOBER 2016   PROF01A
(APPLICABLE FOE III SEM B.E/B.TECH ONLY)

DATE	JULY	AUGUST	SEPTEMBER	OCTOBER
1		RC 21	RC 43(UNIT TEST II ENDS)	RC 64 (IA III ENDS)
2		RC 22	RC 64	SUN(GANDHI JAYANTHI)
3	SUN	RC 23(IA II ENDS)	SAT	RC 65 (UNIVERSITY PRACTICAL EXAM STARTS)(TENTATIVE)
4	RC 1(RE OPENING DAY)	RC 24	SUN	RC 66
5	RC 2	RC 25	HOLIDAY(VINAYAKAR CHATHURTHI)	RC 67
6	RC 3(BEC)	SAT	RC 45	RC 68
7	RC 4 (RAMZAN)	SUN	RC 46	RC 69
8	RC 5	RC 26	RC 47(UNIT IV COMPLETION)	RC 70(UNIVERSITY PRACTICAL EXAM ENDS)(TENTATIVE)
9	SAT(BEC)	RC 27(UNIT II COMPLETION)	RC 48	SUN
10	SUN	RC 28(IA I STAR'S)	SAT	HOLIDAY(AYUTHA POOJA)
11	RC 6(BEC)	RC 29	SUN	HOLIDAY(VIJAYA DASAMI)
12	RC 7	RC 30	RC 49 (IA II STARTS)	RC 71 (MUHARRAM)
13	RC 8	SAT(SYMPOSIUM)	RC 50 (BAKRID)	RC 72
14	RC 9(BEC)	SUN	RC 51	RC 73
15	RC 10	HOLIDAY(INDEPENDESCE DAY)	RC 52	SAT
16	SAT	RC 31	RC 53(LAB SYLLABUS COMPLETION)	SUN
17	SUN	RC 32	SAT	RC 74
18	RC 11 BEC	RC 33(IA I ENDS)	SUN	RC 75
19	RC 12 BEC	RC 34	RC 54(IA II ENDS)	RC 76
20	RC 13 BEC	SAT	RC 55	RC 77 (LASTWORKING DAY)
21	RC 14	SUN	RC 56(UNIT V COMPLETION)	SAT
22	RC 15	RC 35	RC 57(REVISION)	SUN
23	SAT	RC 36	RC 58(REVISION)	
24	SUN	RC 37(UNIT III COMPLETION)	SAT	(UNIVERSITY THEORY EXAM COMMENCES)
25	RC 16(UNIT I COMPLETION)	RC 38(UNIT TEST II STARTS)	SUN	
26	RC 17(UNIT I STARTS)	RC 39	RC 59(IA III STARTS)	
27	RC 18	SAT	RC 60	
28	RC 19	SUN	RC 61	
29	RC 20(BEC EXAM)	RC 40	RC 62	SAT(DEEPAVALI)
30	SAT	RC 41	RC 63	SUN
31	SUN	RC 42		STUDY HOLIDAYS

DIRECTOR

Annexure II – Event Planner

S.A.ENGINEERING COLLEGE
(ACCREDITED BY NBA, NAAC WITH 'A' GRADE & ISO 9001:2008 CERTIFIED INSTITUTION)
EVENT ACTIVITY PLANNER FOR DEC -APRIL 2017 (EVEN SEMESTER)

M	DECEMBER GU	DECEMBER IV/	JANUARY GUEST	JANUARY IV/	FEBRUARY GUEST	FEBRUARY IV/	MARCH GUEST	MARCH	APRIL GUEST	APRIL IV/SEM/W
1			SUN	SUN					SAT	SAT
2					CSI				SUN	SUN
3			CSE GL		ECE III GL		ECE IV GL			
4			CSE GL		SAT	SAT	SAT	SAT	MECH GL	
5				CSE III - IV	SUN	SUN	SUN	SUN		
6			EEE II GL		ECE III -		CSI			ECE
7			SAT	SAT	IT II - GL	ECE III -	MECH GL			ECE
8			SUN	SUN	EEE II GL	ECE III -	IT IV - GL			
9					MCA SYMPO	IT IV - GL			SUN	SUN
10			CSE		MBA		MBA I WS			
11			ECE II -		SAT	SAT	SAT	SAT		
12			CSE GL	CSE II -IV	SUN	SUN	SUN	SUN		
13										
14			SAT	SAT	MBA MGT	IT III - GL			TAMIL	TAMIL
15			SUN	SUN	H&S - GL	IT II - IV/	MBA		SAT	SAT
16			UZHAVAR	UZHAVAR	III - GL	IT II - GL	EEE IV -		SUN	SUN
17					EEE IV GL	IT III -	IT III -			
18			CSE GL		MCA GL	I YR	COLLEGE			
19			EEE III GL		SUN	SUN	SUN	SUN		
20			ECE II GL		CIVIL II-GL	MECH IV				
21			SAT	SAT						
22			SUN	SUN		MECH IV	H&S	IT IV -		SAT	SAT
23				ECE II - IV	EEE III PG	MECH IV /		EEE SEM	SUN	SUN
24			MBA II			MECH IV /	MBA I GL			
25			EEE IV GL	ECE II - IV	CULTURAL -			GRADUATION DAY		
26	RE-	RE-	REPUBLIC	REPUBLIC	SUN	SUN	SUN	SUN		
27			H&S ISTE	EEE IV -	ECE IV GL					
28		CSE	SAT	SAT		MBA E				
29			SUN	SUN			TELUGU	TELUGU	SAT	SAT
30	ME		MBA I GL				MECH GL	CIVIL	SUN	SUN
31	SAT	SAT	MBA II GL	EEE IV - II				CIVIL		

PRINCIPAL

Annexure III - Analysis of feedback

Academic Year: 2016 – 2017　　　　　　　　　　　　　　　　**Semester: ODD**

YEAR/SEM:III/VI　　　　　　　　　　**Date: 24.09.2016**

Name of the Faculty: Mrs.B.RAMYA DEVI

S.No	Criteria in which Percentage got reduced	Percentage Received	Action Taken
1.	Rating of teaching level of faculty	Got 84% in Computer Graphics	1. After the Feedback, HOD suggested faculty to keep classroom environment to be focus on Practical Sessions.
2.	The commitment of faculty towards Teaching and Learning Process	Received 2.1% as low coverage of syllabus with 70% completion	2. HOD suggested the faculty to maintain new Teaching Aids and Online Assignments Techniques to explain the concepts with real time usage.

FOLLOW UP ACTION:

- After HOD suggestions on 19.09.16, the follow up action taken by monitoring her deliverance in class room.

- The class room observation was based on the Physical Settings, Subject knowledge, Delivery of Content and control of classroom.

- The Observation was made on 22.09.2016, and 23.09.2016, with continuous monitoring of above facts.

Class Room Observation and regular monitoring commitment for academic deliverance was improved.

Academic Year: 2016 - 2017   **Semester: ODD**

YEAR/SEM:IV/VII   **Date: 24.09.2016**

Name of the Faculty: Mrs.E.ABIRAMI

S.No	Criteria in which Percentage got reduced	Percentage Received	Action Taken
1.	Rating of teaching level of faculty	Got 82% in Graph theory and applications	1. After the Feedback, HOD suggested faculty to keep classroom environment to be focus on Practical Sessions.
2.	The commitment of faculty towards Teaching and Learning Process	Received 2.1% as low coverage of syllabus with 70% completion	2. HOD suggested the faculty to maintain new Teaching Aids and Online Assignments Techniques to explain the concepts with real time usage.

FOLLOW UP ACTION:

- After HOD suggestions on 19.09.16, the follow up action taken by monitoring her deliverance in class room.

- The class room observation was based on the Physical Settings, Subject knowledge, Delivery of Content and control of classroom.

- The Observation was made on 22.09.2016, and 23.09.2016, with continuous monitoring of above facts.

- On 26.09.2016, improvements found in the traits and her commitment for academic deliverance was improved.

Class Room Observation and regular monitoring

Academic Year: 2016 - 2017   **Semester: EVEN**

YEAR/SEM:II/IV   **Date: 25.03.2017**

Name of the Faculty: Mrs.B.Porkodi

S.No	Criteria in which Percentage got reduced	Percentage Received	Action Taken
1.	Rating of teaching level of faculty	Got 85% in Probability & Queuing Theory	1. After the Feedback, HOD suggested faculty to keep classroom environment to be focus on Practical Sessions.
2.	The commitment of faculty towards Teaching and Learning Process	Received 2.1% as low coverage of syllabus with 70% completion	2. HOD suggested the faculty to maintain new Teaching Aids and Online Assignments Techniques to explain the concepts with real time usage.

FOLLOW UP ACTION:

- After HOD suggestions on 18.03.17, the follow up action taken by monitoring her deliverance in class room.

- The class room observation was based on the Physical Settings, Subject knowledge, Delivery of Content and control of classroom.

- The Observation was made on 22.03.2017, and 23.03.2017, with continuous monitoring of above facts.

- On 26.03.2017, improvements found in the traits and her commitment for academic deliverance was improved.

EVIDENCE:

Class Room Observation and regular monitoring

YEAR/SEM:III/V   **Date: 25.03.2017**

Name of the Faculty: Mrs.RAMYA DEVI

S.No	Criteria in which Percentage got reduced	Percentage Received	Action Taken
1.	Rating of teaching level of faculty	Got 85% both in Theory and Practical Courses (C#)	1. After the Feedback, HOD suggested faculty to keep classroom environment to be focus on Practical Sessions.
2.	The commitment of faculty towards Teaching and Learning Process	Received 2.1% as low coverage of syllabus with 70% completion	2. HOD suggested the faculty to maintain new Teaching Aids and Online Assignments Techniques to explain the concepts with real time usage.

FOLLOW UP ACTION:

- After HOD suggestions on 18.03.17, the follow up action taken by monitoring her deliverance in class room.

- The class room observation was based on the Physical Settings, Subject knowledge, Delivery of Content and control of classroom.

- The Observation was made on 22.03.2017, and 23.03.2017, with continuous monitoring of above facts.

- On 26.03.2017, improvements found in the traits and her commitment for

  Class Room Observation and regular monitoring

Annexure IV – Best Practices

1) 1.Title of the Practice:

Assessment of Programme Outcome

2. Goal:

The aim of the practice "**Assessment of Programme Outcome**‖followed by the Institute is to create a platform to increase in StudentsPerformance 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

student˚s carrier. The institutealso provides funds, which greatly helps in upgradingresearch 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 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

Research at SAEC is nurtured 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.

As a part of the career development, faculty members have opportunities to register for Ph.D.degrees. A large number of faculty members in various departments are pursuing Ph.D. programmes as part of career advancement. Number of publications in reputed journals, which is a good indicator of research output, has been quite satisfying during the last three years. Interdisciplinary approach is being used to address common issues in 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 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

The research activities are funded from organizations 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.