

Sri Sivasubramaniya Nadar College of Engineering

Rajiv Gandhi Salai (OMR)

Kalavakkam – 603 110

Kanchipuram Dist.



SELF STUDY REPORT
(For Re-Accreditation - Cycle II)

VOLUME - I

Submitted to



NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

P.O. Box No. 1075

Nagarbhavi

Bangalore – 560072

June 2017

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SRI SIVASUBRAMANIYA NADAR COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi and Affiliated to Anna University)

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June 05, 2017

The Director
National Assessment and Accreditation Council
P. O. Box. No. 1075
Opp: NLSIU, Nagarbhavi
Bangalore - 5600072
Karnataka

Sir / Madam,

Sub: Submission of SSR – Re-Accreditation (Cycle II) – Sri Sivasubramaniya Nadar College of Engineering – Tamil Nadu – Reg.

Ref: (i) Track Id of NAAC: TNCOGN14229

With reference to the Track ID cited above, we are submitting the following for re-accreditation (Cycle II) of our institution:

- (i) Five hard copies of SSR
- (ii) Five hard copies of Evaluative Report of the Departments
- (iii) One CD containing the SSR and Evaluative Report of the Departments

Hence, we request you to kindly do the needful in this regard.

Thanking you,

Yours sincerely,

S. Salivahan

Dr. S. Salivahanan
Principal

Dr. S. Salivahanan
Principal

Sri Sivasubramaniya Nadar
College of Engineering
Rajiv Gandhi Salai (OMR)
Kalavakkam - 603 110



SSN

PREFACE

Sri Sivasubramaniya Nadar College of Engineering (SSN) was established by Dr. Shiv Nadar, Chairman of HCL Technologies, a \$ 7 billion Enterprise. SSN from a humble beginning in 1996 has grown into a reputed centre of academic excellence and research in emerging technologies.

The vision of SSN is founded on the belief that there is a lot of young talent in our country and with guidance and encouragement, we can rise to the highest levels globally in technology and leadership.

SSN is approved by All India Council for Technical Education (AICTE), New Delhi and affiliated to Anna University, Chennai. SSN is offering 8 B.E./B.Tech. degree programmes, 11 M.E./M.Tech. programmes in addition to MBA. NAAC had accredited the Institution in 2011 for five years with A Grade. All the programmes, eligible for accreditation, have also been accredited by National Board of Accreditation (NBA), New Delhi.

As an exemplary institution of learning, SSN follows an admission policy that strongly favors merit, even as it enables access to education for students from all strata of society through appropriate scholarships. SSN provides a stimulating environment for intellectual development, free thinking, and personal growth, challenging its students with dynamic learning opportunities and equipping them with the skills, insights, attitudes and practical experiences that are necessary to take up responsibilities in the industry and society at large.

With a highly qualified faculty and a technology enabled campus, SSN focuses on 360 degree development of its students. Students are encouraged to participate in research activities, sports, cultural, social, co-curricular and extra-curricular activities to ensure that they are well rounded graduates.

SSN graduates are thus the cream of the crop and are today working in a diverse range of organizations such as Microsoft, Caterpillar, Thoughtworks, Amazon, Ford Motors, Renault Nissan, Cognizant, Infosys and a host of others in India and abroad. SSN graduates are also active in a wide variety of areas in pure research and entrepreneurship thus demonstrating their ability to shine across geographies and industries.

SSN encourages its students and faculty to explore the world of technology, scale the heights of research, innovation and creativity and above all to transform the learning experiences to find practical solutions to social problems. Within a short period of time, SSN has significantly ramped up its research output in terms of publications and patents filed.

SSN has taken strides in both teaching & research and emerged as one of the premier institutions in the country. SSN intends to further excel and to attain a status of a world class institution.

PRINCIPAL

AN EXECUTIVE SUMMARY

Sri Sivasubramaniya Nadar College of Engineering (SSN) was established in the year 1996 by **Dr Shiv Nadar**, Chairman, HCL Technologies, as an unaided engineering college. The motive for establishing this institution was to provide quality education of global standards as a gesture **‘to give back to the society’** that nurtured him. The institution, run on **‘not for profit’** basis is located on a sprawling campus of 250 acres on the Rajiv Gandhi Salai, the Cyber Corridor of Chennai.

The institution, approved by the Government of Tamil Nadu and All India Council of Technical Education, is presently affiliated to the Anna University, Chennai.

Progress of the Institution

The Institution, started in 1996 with 68 students & 8 faculty, offered 3 B.E. degree programmes in EEE, ECE and CSE. It has now grown to a strength of around 4350 students and 275 faculty members offering 8 UG and 12 PG programmes. It also offers research programmes of MS and Ph.D. NAAC had accredited the Institution in 2011 for five years with A Grade. All the programmes, eligible for accreditation, had also been accredited by NBA earlier.

B.E. programs in EEE, ECE and CSE have completed two cycles of NBA accreditation and are currently accredited for 5 years with effect from 01.07.2015. B. Tech. program in IT has completed one cycle of NBA accreditation and is currently accredited for 5 years with effect from 01.07.2015. Also, B.E. program in Biomedical has been accredited by NBA, New Delhi, for a period of 5 years with effect from 01.07.2015. The M.E. degree programs in Power Electronics and Drives, Communication Systems, Applied Electronics and Computer Science and Engineering have completed one cycle of NBA accreditation and are currently accredited by NBA, New Delhi, for a period of 5 years with effect from 01.07.2016. Applications have been submitted to NBA, New Delhi, for the accreditation of all other eligible programs in B.E./B.Tech.

SSN has established itself as a much sought after Institution for aspiring students and their parents. The main reasons are high quality faculty **(199 of them with Ph.Ds)** supported by the following:

- Modern teaching methods
- Computerized library
- Wi-Fi enabled campus
- 24 hour internet (bandwidth of 310 Mbps)
- 86 well-equipped laboratories
- Best-in-class sports facilities
- Nurturing 360-degree development of students
- Hostels for about 3000 students
- Excellent Transport facilities

The Institution has achieved excellence in all spheres of activities. It is ranked first among 540 engineering colleges affiliated to Anna University. The students of all branches have achieved 135 University ranks in the year 2016. Ninety five percent of eligible students were placed in leading companies in the graduating batch of 2016. An estimated 108 students have gone abroad for higher studies in leading Universities such as Stanford University, University of Southern California, Arizona State University, University of Florida, North Carolina State University, Technical University of Munich, Hongkong University of Science and Technology, Carnegie Mellon University, Purdue University, Texas A&M University, University of Virginia, Hamburg University of Technology, Georgia Tech University, Delft University of Technology, University of Oxford, The University of Sydney, Ohio State University, University of Michigan

The Institution has an active Entrepreneurial Development Cell, “Lakshya”. This Cell organizes a number of events to promote awareness of entrepreneurship. Its flagship event is the SYCON during which various talks are organized for students of SSN and other Institutions.

The following recognitions stand testimony to the above:

- Ranked 5th among all private engineering colleges in India by NIRF
- Best Engineering College Award from ISTE
- “Asia’s Best Private Institute Award” for the year 2013 by World Consulting and Research Corporation
- High rankings by National Magazines like Data Quest, Competition Success Review and Outlook

A significant outcome is that the seats of the Institution are among the first to be filled during the Single Window Admissions of Anna University.

Philanthropy the main stay

The Institution distributes scholarships valued more than Rs.4 crores every year under different categories.

The college admits 25 students every year from Government Rural Schoolsof Tamil Nadu and offers completely free engineering education. The schools the students hail from are located in the rural areas of Tamilnadu where childrenhave limited access to education resources and information about higher education. After admission, special attention is given to ensure their success. A specially designed orientation program for 3 weeks is imparted prior to commencement of the regular classes with significant focus on communication skills and personality development. This is a transformational experience for the students with life-changing outcomes.

A “Walk-in-walk-out” scholarship is available to 25 students every year for those secure the top ten ranks in any Higher Secondary Board. They are exempt from all fees for the entire four years of education.

Sports is given due importance through 25 scholarships every year for students who have excelled in sports. They are also provided excellent facilities and coaching. Mr. Ravichandran Ashwin, Indian Cricketer and Ms. Anaka Alankamani, International Squash Player are the products of this Institution.

Students are awarded Merit scholarships and Merit-cum-Means scholarships. To promote all round development of the students, Classical Music Scholarships are awarded. The Alumni of the Institution and corporates such as CTS and Redington and many other individuals also contribute to the scholarships provided by the Institution.

Social Responsibility

The Institution inculcates social consciousness among its students through active forums such as Youth Red Cross and NSS. Anna University has recognized this by awarding the Best NSS Unit to SSN several times in the past.

Some of the social activities undertaken by the members of the Institutions are:

- Computer training to school children
- Training the women folk in the surrounding villages to establish information kiosks
- Training Police personnel to handle computers

SSN organized “Vidiyal”, an awareness program among students studying in 10th, 11th and 12th standards and their parents in rural areas about opportunities available to pursue higher education. Teams from SSN visited about 200 Government Higher Secondary schools in rural areas to promote the need for educating their wards and disseminating information about various options, opportunities and scholarships available. This effort was targeted at Government schools in educationally backward areas as the children who study there and their parents are from lower socio-economic strata. ‘Vidiyal’ is a Tamil word which means a new ‘dawn’.

“Samudhay” was a social project undertaken by faculty and students of SSN in 13 villages in nearby areas in association with the HCL Foundation in its efforts create model villages in India. The project was to identify the needs of the villages in the dimensions of – Health, Education, Sanitation, Electricity & Water, Women Empowerment and Youth Empowerment – and draw up a plan of action to be implemented by NGOs. Students of SSN conducted this study with support from faculty members.

Research a way of life

Research is an integral part of SSN and a way of life.

The departments of EEE, ECE, CSE, IT, Mechanical Engineering, Chemical Engineering, Biomedical Engineering, Mathematics, Physics,

Chemistry and English have been recognized by Anna University as 'Research Centres' by Anna University. These departments have 149 research supervisors. There were 151 full time and 300 part-time research scholars doing their Ph.D. in SSN in May 2017.

A Research Advisory Council comprising eminent researchers as given below guides the research activities of faculty members.

- | | |
|---|-------------------|
| 1. Dr. Shiv Nadar, Chairman, HCL Technologies Ltd. | Chairman |
| 2. Dr. Raj Reddy, Professor of Computer Science & Robotics
Carnegie Mellon University, USA | Member |
| 3. Dr. N. Balakrishnan, Associate Director, IISc, Bangalore | Member |
| 4. Dr. R. Natarajan, Former Chairman, AICTE, New Delhi | Member |
| 5. Dr. Damodar Acharya, Director, IIT Kharagpur | Member |
| 6. Ms. Kala Vijakumar, President, SSN Institutions | Member |
| 7. Dr. S. Salivahanan, Principal, SSN College of Engg. | Member |
| 8. Dr. S.V. Albal, Professor, SSN College of Engg. | Member |
| 9. Dr. P. Ramasamy, Dean (Research), SSN College of Engg. | Member- Secretary |

SSN Research Centre has been established to promote inter-disciplinary research within SSN. A Centre for Crystal Growth has been established for research in materials sciences. These efforts have paved the way for several projects being funded by different agencies. Several National and International Conferences have been organized and a large number of papers are published in leading journals of repute.

The SSN Trust supports research activity by faculty and students by way of generous grants. Since 2011, a sum of Rs. 518.80 lakh was sanctioned for internal funding for faculty and student projects. In 2015-16, Rs. 29.42 lakh was sanctioned for 150 student projects. In 2016-17, SSN faculty have published 466 papers and students have published 253 papers in peer reviewed international journals.

Way Forward

The college is affiliated to Anna University, Chennai and follows the curriculum and syllabi of the University. Faculty members of the Institution have been in the various Boards of Study (BOC) and Academic Council of the University and have contributed significantly to curriculum and syllabi development.

The Institution has initiated the process for autonomy status and, in due course, becoming a University. The aim is to be a multi-disciplinary, research-led Institution with multiple schools across engineering, management, liberal arts and sciences. The Institution will produce students with sufficient breadth and width of knowledge and skills required to lead in the 21st century.

SWOC analysis of the Institution and Future plans:**Strengths:**

- Dedicated and qualified faculty with diverse research interests
- 250 acre campus with state-of-the-art infrastructure
- Well-equipped labs and digitally enabled classrooms for effective learning
- Large number of externally funded research projects
- Meritorious students, many with interest in research
- Students winning several external awards in recognition of their projects
- Academic collaboration with Institutes of international repute, like Carnegie Mellon University
- Periodic research interventions like International and National Conferences and workshops on varied topics
- Structured system for inducting students into research at an early stage
- Seed funding by SSN Trust for promising research proposals of faculty and students
- Culture of all-round development in Academics, Sports, Music and Arts
- A large number of MoUs with industries and educational institutions of eminence.
- Innovation Centre and Incubation Centre to promote creativity and entrepreneurship
- Ranked among the top ten private engineering colleges in India by reputed agencies

Weaknesses:

- Limiting influence of affiliation status in curriculum, syllabi and forging external relationships
- Improvement required in Industry-Institute Interaction

Opportunities:

- Good recognition in industry circles evidenced by placement of students. This can help in building stronger links with industry in consultancy.
- Talented students who can be channelized into leadership positions in the years to come.
- Interaction with Assocham, CII, FICCI, IMTMA and professional bodies

- Tapping the knowledge resources of Alumni who are pursuing successful careers in industry or as Entrepreneurs.

Challenges:

- Commercialisation of the research work done in the Institution and converting them for industrial application
- Being an affiliated institution, it is difficult to integrate the rapidly changing technology

Future Plans

- To obtain autonomous or University status
- To diversify and offer programs in humanities and sciences
- To increase focus on product development and incubation of startups on campus

PROFILE OF THE COLLEGE

1. Name and address of the college:

Name:	Sri Sivasubramaniya Nadar College of Engineering		
Address:	Rajiv Gandhi Salai (OMR), Kalavakkam – 603110		
City: Off Chennai	Pin: 603110	State: Tamil Nadu	
Website:	www.ssn.edu.in		

2. For communication:

Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	Dr. S. Salivahanan	O: 044-27436700 / 752 R: 044-27497393	0944418 9433	044-27469772	salivahanans@ssn.edu.in
Vice-Principal	---				
Steering Committee Coordinator	Dr. N. Nallusamy	O: 044-27436700 R: 044-48512332	0944453 8798	044-27469772	nallusamyn@ssn.edu.in

3. Status of the Institution: **It is an Affiliated College**

4. Type of Institution:

- a. By Gender **It is a Co-educational College**
b. By Shift: **It is a Day college**

5. Is it a recognized minority institution?

It is not a recognized minority Institution.

6. Sources of Funding: **It is a Self Financing College**7. a. Date of establishment of the college: **15th October 1996**

b. University to which the college is affiliated: **Anna University, Chennai**

c. Date of UGC recognition: **Not Applicable**

d. Details of Recognition / Approval by Regulatory Bodies (AICTE)

Under Section / Clause	Approval of Programmes	Day, Month & Year	Validity	Remarks
B.E./B.Tech. Programmes				
	EEE		1996	First Approval (60)
	ECE		1996	First Approval (60)
	CSE		1996	First Approval (40)
	CSE		1999	40 to 60 Increase
	IT		1999	First Approval (40)
	ECE		2000	Increase from 60 to 90
	CSE		2000	Increase from 60 to 90
	IT		2000	Increase from 40 to 60
	IT		2001	Increase from 60 to 90
	EEE		2002	Increase from 60 to 90
	ECE		2002	Increase from 90 to 120
	CSE		2002	Increase from 90 to 120
	EEE		2004	Increase from 90 to 120
	Chemical Engg.		2004	First Approval (30)
	Biomedical Engg.		2005	First Approval (60)
	IT		2007	Increase from 90 to 120
	Mechanical Engg.		2007	First Approval (60)
	Chemical Engg.		2011	Increase from 30 to 60
	Mechanical Engg.		2011	Increase from 60 to 120
	Civil Engg.		2011	First Approval (60)
M.E./M. Tech. and MBA Programmes				
	MBA		2000	First Approval (60)
	Communication Systems		2003	First Approval (18)
	CSE		2003	First Approval (18)
	Applied Electronics		2004	First Approval (18)
	Power Electronics and Drives		2004	First Approval (18)
	Computer and Communication		2005	First Approval (18)
	Communication Systems		2010	Increase from 18 to 36
	CSE		2010	Increase from 18 to 36
	MBA		2010	Increase from 60 to 120

Under Section / Clause	Approval of Programmes	Day, Month & Year			Validity	Remarks
	VLSI Design			2011		First Approval (38)
	Software Engg.			2011		First Approval (18)
	Manufacturing Engg.			2012		First Approval (18)
	Energy Engg.			2013		First Approval (18)
	Medical Electronics			2014		First Approval (18)
	Environmental Science and Tech.			2014		First Approval (18)
	Current Approval			2016		All existing programmes

(Enclose the recognition/approval letter)

8. Does the University Act provide for autonomy of Affiliated / Constituent Colleges?

Yes ✓ No

If yes, has the college applied for autonomy?

Yes. Anna University inspection is completed.

9. Is the college recognized?

a. By UGC as a college with a potential for Excellence (CPE) **No**

b. For its performance by any other Governmental agencies: **Yes**

i. By ISTE : Best Chapter Award in Tamilnadu & Pondicherry In 2013

ii. By ISTE: Best Overall Performance in the field of technical education in the country, 2006

10. Location of the campus and area in Sq.m.:

Location	Rural
Campus Area in Sq.m.	10,00,000
Built up area in Sq.m.	1,69,835

11. Facilities available in the Campus:

a) Auditoria: 1000 seats capacity One
300 -do- One

Seminar halls 200 -do- Ten
All the above are Air conditioned.

b) Sports

Sl. No.	Description	Details	Area in Sq.m
1	Details of the indoor games available	1. Basketball	704
		2. Squash (2 Nos.)	146
		3. Table Tennis Hall	114
2	Details of the outdoor games available	1. Basketball (2 Nos.)	1800
		2. Football (1 No.)	7500
		3. Volleyball (2 Nos.)	2304
		4. Tennis Synthetic (2 Nos.)	2176
		5. Cricket Turf Wicket (1 No.)	21133
		6. Ball Badminton	414
		7. Throwball	380
		8. Handball (1)	175
		9. Athletics (400 m track)	16150
3	Details of gymnasium available	Two for men	200
		One for women	75
4	Total area of the play ground	Outdoor: 44532 Sq.m. Indoor: 2375 Sq.m.	

c) Hostels

Sl. No.	Details	Boys Hostel	Girls Hostel
1	Number of Hostels	7	7
2	Number of Rooms	999	934
3	Capacity (No. of Persons.)	1708	1605
4	Facilities	Room for indoor games, TV room, Basket ball court (for boys), Shuttle (for girls), medical facility (central facility), van for emergency, Wi-Fi connectivity for both the hostels are available	

International Hostel with 142 Airconditioned Rooms is also available to accommodate PIO students/delegates/guests.

d) Residential facilities

Type of Quarters	Allotted to	Number available
A	Principal	1
B	Professors	6
C	Associate Professors	10
D	Assistant Professors	30
E	Lab Technicians	6
F	Maintenance staff	12
Total		65

- e) Cafeteria** Canteen One
Coffee kiosks Four
- f) Health Centre** One full-time qualified Doctor
One full-time qualified Nurse
Dispensary with First Aid facility, Emergency care facility and two beds.

g) Other facilities:

- (i) an extension counter of a bank with ATM facility
- (ii) One book shop
- (iii) Bus facilities for day-scholars & faculty to commute from the city (42 buses); Pooled car pick up facility for Professors
- (iv) Eight Standby Generators with a total capacity of 1580 KVA
- (v) A full fledged Sewage Treatment Plant is available and treated water is used for gardening
- (vi) A pond in the campus is used for rain water harvesting and a network of channels discharge into the RWH system.
- (vii) The entire campus is Wi-Fi enabled
- (viii) Eco friendliness: Solar street lighting, solar water heaters, Limited Carbon Emissions, Copious Greenery.

12. Details of programmes offered by the institution:

[Current academic year 2016-17]

Sl. No.	Programme level	Name of the Programme/Course	Year of starting	Duration (years)	Entry Qualification	Medium of Instruction	Sanctioned students strength	Number of students admitted
1	UG	Electrical and Electronics Engineering	1996	Four	+ 2	English	120	128
2	UG	Electronics and Communication Engineering	1996	Four	+ 2	English	120	130
3	UG	Computer Science and Engineering	1996	Four	+ 2	English	120	128
4	UG	Information Technology	1999	Four	+ 2	English	120	128
5	UG	Chemical Engineering	2004	Four	+ 2	English	60	63
6	UG	Biomedical Engineering	2005	Four	+ 2	English	60	63
7	UG	Mechanical Engineering	2007	Four	+ 2	English	120	127
8	UG	Civil Engineering	2011	Four	+ 2	English	60	63
9	PG	Communication Systems	2003	Two	Engineering Degree	English	36	22
10	PG	Computer Science and Engineering	2003	Two		English	36	19
11	PG	Applied Electronics	2004	Two		English	18	8
12	PG	Power Electronics and Drives	2004	Two		English	18	12
13	PG	Computer and Communication	2005	Two		English	18	6
14	PG	VLSI Design	2011	Two		English	36	4

15	PG	Software Engineering	2011	Two		English	18	-
16	PG	Manufacturing Engineering	2012	Two		English	18	16
17	PG	Energy Engineering	2013	Two		English	18	7
18	PG	Medical Electronics	2014	Two		English	18	7
19	PG	Environmental Science and Tech.	2014	Two		English	18	-
20	PG	Master of Business Administration	2000	Two	Any degree	English	120	120
21	Ph.D.	In all disciplines except Civil Engg.						
Total							1152	1051

13. Does the college offer self financed Programmes?

The college being a self financed one, all the Programmes are self financed.

14. New Programmes introduced in the college during the last five years, if any:

Sl. No.	Name of the Programme	Year of starting	Sanctioned Intake
	UG Programme		
1	B.E. in Civil Engineering	2011-12	60
	PG Programmes		
2	M.E. in VLSI Design	2011-12	36
3	M.E. in Software Engineering	2011-12	18
4	M.E. in Manufacturing Engineering	2012-13	18
5	M.E. in Energy Engineering	2013-14	18
6	M.E. in Medical Electronics	2014-15	18
7	M. Tech. in Environmental Science & Technology	2014-15	18

15. List the departments:

Departments	Numbers
Department of Science & Humanities (comprising English, Mathematics, Physics and Chemistry divisions)	1
Arts (Language and Social sciences included)	Not Applicable
Commerce	
Any Other (Specify):Engineering	
Departments of EEE, ECE, CSE, IT, Chemical Engineering, Biomedical Engineering, Mechanical Engineering, Civil Engineering	8
Management	1
Total	10

16. Number of Programmes offered under Semester system:

All Programmes offered are under Semester system

17. Number of Programmes with

- | | |
|--|------------|
| a. Choice Based Credit System | Nil |
| b. Inter/Multi Disciplinary Approach | Nil |
| c. Any other (specify & provide details) | Nil |

All programmes are evaluated with courses assessed by marks earned by the student through two components i.e. Continuous Internal Assessment and an End Semester Examination. The marks earned by the student are then converted into letter Grades on a 10 point scale.

18. Does the college offer UG and /PG programmes in Teacher Education?

No

19. Does the college offer UG and / PG programmes in Physical Education?

No

20. Number of Teaching and Non-teaching positions in the Institution:

Sl. No.	Positions	Teaching Faculty						Non Teaching staff		Technical staff	
		Professor		Associate Professor		Assistant Professor					
		M	F	M	F	M	F	M	F	M	F
1	Sanctioned by UGC/varsity/State Government	Being a self financing college these do not arise									
	Recruited										
	Yet to recruit										
2	Sanctioned by the Mgmt.* / Society / other authorized bodies	31	17	80	39	48	60	53	14	61	8
	Recruited	All have been recruited									
	Yet to recruit	Nil									

(*) Sanctioned number is taken on the basis of student strength /faculty, ratio of 15 for teaching faculty of UG & MBA and 12 for M.E.; Technical staff is taken as one per lab. Non teaching staff is taken as 1.5% of student strength. There is no gender specification in any of the categories. The Cadre ratio, viz. Professor: Associate Professor: Assistant Professor is taken as 1:2:6 for UG & MBA and 1:1:1 for M.E. for an intake of 18.

21. Qualifications of Teaching Staff:

All those who are recruited, are permanent staff. There is no temporary or part-time staff.

Sl. No.	Highest Qualification	Professor		Associate Prof.		Assistant Prof.		Total
		M	F	M	F	M	F	
1	D.Sc./D.Litt.	-	-	-	-	-	-	-
2	Ph.D.	28	17	78	39	17	20	199
3	M. Phil.	-	-	-	-	2	-	2
4	PG	3	-	2	-	29	40	74
Total								275

22. Number of Visiting / Guest Faculty engaged with the college:

Guest Faculty from industry are engaged only for the School of Management. They will teach one segment of a course or a specific topic as the Professor might feel necessary. Number of such Guest faculty used during 2015-16 is 15.

23. Number of students admitted to the college during the last 5 academic years:

Sl. No.	Category	2012-13		2013-14		2014-15		2015-16		2016-17	
		M	F	M	F	M	F	M	F	M	F
1	SC	57	47	71	33	56	35	45	46	45	34
2	ST	4	5	0	2	3	3	6	-	1	4
3	OBC	368	331	382	177	329	224	307	213	307	209
4	General	179	138	197	165	147	136	189	135	163	142
5	Others										
	1. Sports	11	6	8	3	6	8	14	5	10	2
	2. WIWO	1	2	2	-	1	1	-	-	-	-
	3. Rural	10	15	14	11	11	14	11	14	14	11
	4. Others	1		1		1		1		1	

24. Details of students enrollment in the college during the current academic year (2016-17)

Sl. No.	Type of Students	UG	PG	M. Phil.	Ph.D.	Total
1	Students from the same state where the college is situated	773	96	-	58	924
2	Students from other States of India	57	5	-	1	67
3	NRI students	11	-	-	-	11
4	Foreign Students	11	-	-	-	11
	Total	852	101	-	59	1013

25. Dropout rate in UG and PG (average of the last two batches)
Those who have discontinued after Second year for UG and First year for PG only be considered, excluding Lateral entry students.

2015-16	UG	13 /780	PG	10/372
2016-17	UG	7 /780	PG	4/372

26. Unit Cost of Education

(Unit cost = total annual recurring expenditure (actual) divided by total number of students enrolled)

(a) Including the salary component = Rs. 2.29 Lakh

(b) Excluding the salary component = Rs. 0.88 Lakh

27. Does the college offer any programme in Distance Education Mode? **No**

28. Provide the Teacher-student Ratio for each of the Programme offered:

Sl. No.	Programme	Faculty - Student Ratio
UG PROGRAMMES		
1	Electrical & Electronics Engineering	1:15
2	Electronics & Communications Engg.	1:15
3	Computer Science & Engineering	1:15
4	Information Technology	1:15
5	Chemical Engineering	1:15
6	Biomedical Engineering	1:15
7	Mechanical Engineering	1:15
8	Civil Engineering	1:15
9	Science & Humanities	1:13
PG PROGRAMMES		
9	Computer Science & Engineering	1: 12
10	Communication Systems	1: 12
11	Power Electronics & Drives	1: 12
12	Applied Electronics	1: 12
13	Information Technology	1: 12
14	VLSI Design	1: 12
15	Soft ware Engineering	1: 12
16	Manufacturing Engineering	1: 12
17	Energy Engineering	1: 12
18	Medical Electronics	1: 12
19	Environmental Science & Engineering	1: 12
20	Master of Business Administration	1: 15

29. Is the college applying for Accreditation, Cycle 1 / Cycle 2 / Cycle 3

The college is applying for Accreditation Cycle 2

30. Date of Accreditation Cycle 1 08.01.2011
Accreditation Outcome: Grade A (3.13/4)

31. Number of working days during last academic year (2015-16)

180 + examination days for regular Odd & Even semesters

32. Number of teaching days during the last academic year (2015-16)

160 days

33. Date of establishment of Internal Quality Assurance Cell (IQAC)

SSN IQAC was established on 01.07.2011.

34. Details regarding submission of Annual Quality Assurance Reports to NAAC:

AQAR reports for the academic years 2011-12 to 2015-16 have been submitted.

35. Any other relevant data not covered:

Quality of Graduating Students for the last five years

Year	UG					PG				
	Appeared	FWD*	I Class	II Class	Pass %	Appeared	FWD	I Class	II Class	Pass %
2015-16	925	159	648	43	91.89	308	39	247	8	95.45
2014-15	922	147	666	51	93.7	327	39	251	26	96.64
2013-14	759	101	566	35	92.49	301	52	220	12	94.35
2012-13	675	88	508	35	93.48	276	43	203	18	95.65
2011-12	674	124	476	22	92.28	183	11	152	14	96.72

* First Class with Distinction

No. of Anna University Ranks

Year	UG	PG
2015-16	95	40
2014-15	103	63
2013-14	87	51
2012-13	69	38
2011-12	92	11

Students Achievements

- A team of four students from final B.E. (EEE) participated in Bosch Hackathon and bagged the First prize and cash prize worth Rs.2 lakh.
- Pavan Kumar and Sidarth, Final B. Tech. (Chemical) secured about 99 percentile in GATE with All India Rank 87 and 120 respectively.

Smart India Hackathon 2017

It is the world's biggest open innovation model which aims to create implementable and sustainable solutions to problems identified by various government departments



Team of SSN students led by J Adithya, Computer Science Department, won the first prize in the Skill Development category. The team received a cash prize of ₹1,00,000.



- Jose Rohan, III B.E. (Mech.) won Second place and a cash award of Rs.25,000 at Honeywell's Eureka Challenge for motorcycle safety equipment.
- A project by D. Ganesh Kumar, K.B.Dixit, S.Sakthivel, Final B.E. (BME) titled "A PDA to quantify driver's attention using EEG biofeedback" was awarded the second prize in CSI Project Colloquium-2017.
- R.N. Kirtana, II B.E. (CSE) presented a poster titled "An IoT based Remote HRV Monitoring System for Hypertensive Patients" and secured First prize in CSI Project Colloquium-2017.

VALEO INNOVATION CHALLENGE 2017
A competition for young students worldwide to make the car of 2030 for Valeo, a multinational automotive supplier based in France



Only two teams from India qualified for the final round comprising of 12 teams in total. Both the qualifying teams are from SSN, and led by Ankit Kumar and D Vishal – 2nd year students from the Department of Mechanical Engineering. They have won €5000 each and will compete for the first prize of €100000 in the final round.

- Siddharth S, IV B.E. (CSE) secured first place in Model United Nations held at St. Joseph College of Engineering.
- Sri Mugilan, III B. Tech. (Chem.) received the best paper award I prize in Shemcon 2015 organised by IICChE.
- Sri Navin P. III B. Tech. (Chem.) received a prize award of Rs.35,000/- in the event GAMETHON (Gravitas 2015) from VIT Vellore.
- Ramya R & R.Srivatsan, III B.E. (Mech.) won First place in Business Plan Event of Tier 3 SAE Student Convention held at VIT.
- Hamsa Zagriya, Hasha Vardhini, Dharani (2015 batch) received the ISTE-Manakula Vinayagar Award for best student project for the project titled, "Energy recovery scheme to harvest energy from partially shaded photovoltaic module" at 15th ISTE TN & Pondicherry Section Annual Convention for Engineering Students.

- Mr. Jerry George Thomas, III B.E. (ECE) was awarded the Best Delegate, Ms. S. Sanjana Smruthi, II B.E. (ECE), Gaya Prasad, III B.E. (CSE) were awarded the Special mention-II and Ms. C. Sreenithy was awarded the High Commendation in the Model United Nations Conference'15 held at VIT University, Chennai Campus.
- M. Aravind, R Sai Santhosh, II B.E. (Mech.) won the best paper award in 'Manufacturing' & also stood first in prelims of paper presentation at IIT Madras's Mechanical symposium 'Mechanica'16
- Ms. K.V. Iswarya, M.E. (PED) won the 1st Prize in “Danfoss-Innovator Project Award 2014-15” conducted by Danfoss Industries Pvt. Ltd. She has won a cash prize of two Lakh rupees and a certificate for her project entitled, "Velocity Control of Linear Switched Reluctance Motor" under the guidance of Dr. M. Balaji, Asso. Prof./EEE.
- Arun Srinivas P, Deepak N, Ganesh Kumar K, Navathej G, students of BME won Rs. 10000 in Texas Analog Design contest for their project “Design of a Switch Controller for Paralytic Patients using EEG” in 2013.
- Mukundan and M. S. Vishwanath (2009-2013) of CSE won first prize (iPad) in “CIO’s Challenge” National level contest conducted by CTS in year 2013.
- Archana J and Lakshmi, III B.E. (BME) won Sahajanand Laser Technology Sushrutha Innovation Award for innovation “A cost effective prototype for long term blood glucose monitoring using non-invasive adaptable laser technique” in 2012 (Rs.50,000/-).
- B. Sriram and M. Tarun, IV B.E. (Mech.) won the first prize in Tier-2 National Level SAE Student Innovation Contest 2012.
- Nirupa, IV B.Tech. (IT) won the award in National Social Entrepreneurship proposal contest to eliminate child labour in 2012.
- Kamal Prakash & Karthik Singaram students of EEE secured award for Best Algorithm for Robotic Design at NIT Trichy in year 2011 -12.
- 11 students from IT(3), EEE(3), BME(3), ECE (1), CSE(1) received the “BEST NSS Volunteer Award” from Anna University.
- Karthik Narayan student of CSE was the 1st runners up and received Rs. 3 Lakh in cash award in Tanishq Swarna Sangeetham.
- Students of Mechanical Engineering won the best endurance, best driver and 4th overall place in the Imperial Society of Innovative Engineers, National level design and Karting competition.
- Students of Biomedical Engineering won a cash prize of Rs.3.1 Lakh in Innovation Challenge – Smart Living contest for their project “Optimized switch control for elder and disabled patients using EEG”.

CRITERIA–WISE INPUTS

CRITERION I: CURRICULAR ASPECTS

1.1 Curriculum Planning and Implementation

1.1.1 The Vision and Mission statements of the institution are:

Vision Statement

To be a world-class institution for technical education and scientific research for the public good.

MissionStatement

SSN will strive continuously to

- *Make a positive difference to the society through education*
- *Empower students from all socio-economic strata to level the academic and professional playing field*
- *Be a centre of excellence in education in emerging technologies in tandem with the industry and industrial trends*
- *Build world class research facilities on par with the finest in the world and broaden students' horizons beyond classroom education*
- *Nurture talents and entrepreneurship and enable all-round personality development in students*

The Vision and Mission are communicated to the students, teachers, staff and other stakeholders by including the statements in the institute calendar which is issued to every student and faculty at the start of the academic year. The statements are displayed at all prominent places such as, laboratories, library, conference halls, seminar rooms, canteen etc. It is also indicated in the college website www.ssn.edu.in.

1.1.2 Action plan for the effective implementation of the curriculum

The Institution follows the curriculum defined by Anna University.

Well defined program outcomes and course outcomes aid in providing direction to teaching and other activities. Feedback from industry and alumni is given due importance in defining graduate attributes and design of course outcomes. A regular system of obtaining students' feedback helps in improving the learning outcomes.

1.1.3 Support the teacher receives from the college for effective translation of curriculum to class

The institution follows a student centric method of teaching. Technology is used extensively to ensure effective delivery of curriculum. Every teacher is provided with a personal computer and access to high speed internet. The Institution also provides access to online resources such Science Direct, Springer, IEEE, ACM etc to enable faculty enrich the content of teaching. A campus wide intranet assists dissemination of information and materials. All the classrooms are equipped with laptop, LCD projector and screen besides the conventional blackboards.

1.1.4 Initiatives by the institution for the effective curriculum delivery

SSN has put in place extensive infrastructure for technology led learning. The campus is fully wi-fi enabled with high speed internet access to all students and faculty. A campus wide intranet is used extensively to post course notes, learning material and discussions/circulars. Students are expected to be prepared for the topics being covered in the classroom.

The process of course allocation, planning and monitoring of delivery is ensured through departmental meetings and reviews.

The faculty members prepare the pre-class materials based on the approved course plans and use various teaching aids such as PPTs and projectors in the classrooms to effectively deliver the content.

The assessments aim to measure course outcomes as against the defined course objectives.

Class committees are formed for each section of class. They meet periodically and students provide their inputs on the progress of the course, issues in learning, if any and suggestions for further action. These meetings are minuted and relevant points shared with concerned faculty members.

On a semester-to-semester basis, written feedback is obtained from students for each course. These are used for better curriculum delivery in the subsequent semesters.

The Principal is provided with copy of the minutes of the class committee meetings for information and action, wherever necessary.

1.1.5 Interaction with research bodies and industry to improve operation of the curriculum

The interaction with the research bodies and Industry happens through guest lectures, industrial visits, tours and internships during vacation. Some of these lead to projects for students in their final semester. Guest lectures from industry and research laboratories give inputs about the current trends in the industry. During the conferences that are organized by departments, there is a

confluence of industrialists and scientists from reputed research organizations. Inputs from these sources are formally documented and put forward to the faculty who are members of the specific Board of Studies.

1.1.6 Contribution of the institution in the development of the curriculum

Some of the faculty members of the college are members of the Boards of Studies (BOS) in various disciplines and also Academic council of the University. They actively collect inputs from the Industrialists, Research Scientists and Alumni, collate them and make suitable recommendations to the BOS for incorporation/modification in the curriculum.

1.1.7 Independent development of the curriculum by any faculty

A faculty member can also recommend incorporating a subject / topics in the curriculum to enhance the employability of the students. In such cases, he can frame a syllabus and indicate the same to the BOS through the Principal that he is willing to teach the course. This is given due consideration by the respective Boards of the University and can be offered by the faculty as 'a directed study'.

1.1.8 Ensuring that the stated objectives are achieved

The essential objectives of an engineering education are that post completion of the programme a student should

- Possess a sound knowledge of the engineering concepts and their application
- Be strong in his analytical skills
- Have good communication skills
- Be able to work and contribute in a team environment
- Exhibit leadership potential
- Have a zest for lifelong learning

There are many mechanisms to ensure the achievement of the above objectives. They are:

- Student feedback during the class committee meetings.
- The examination results
- The placement interviews.
- Alumni achievements

All the above indicate the success achieved by the institution in ensuring development of high quality engineering graduates at SSN.

1.2 Academic Flexibility**1.2.1 Skill Development Courses offered by the Institute**

The students are given adequate training in the courses prescribed by the curricula to earn their degree. In addition, the following value added programmes are offered:

- i. Foreign language courses in German, French, Spanish and Japanese
- ii. Personality Development Programmes
- iii. Training in Communication skills resulting in BEC I, BEC II certificates of British Council
- iv. Special training programmes in C++, JAVA
- v. Aptitude training to enable success in the recruitment processes of various companies

1.2.2 Offer of twinning programmes

These are not possible as the Institution is affiliated to Anna University.

1.2.3 Institutional provisions for enrichment of the syllabi

The Regulations and Curricula are fixed by the affiliating University. Within this framework, the Institution offers a wide range of electives. These electives are sometimes common to many branches, viz. Environmental Science, Professional Ethics, and Engineering Economics. Wherever possible, the faculty members go beyond the syllabus to augment the learning outcomes of students.

Some courses are offered in an effort to provide additional inputs to the students, so that they have the built in capacity for self study and feel at home when they join an industry. For example, special short term courses like Wind Energy by EEE department, Advanced Imaging Techniques by ECE department and Fundamentals of Accountancy by the School of Management are offered, as non-credit courses, for students who desire to learn them.

1.2.4 Self financed programmes

The Institution is an unaided one and all the programs offered by it are self-financed.

1.2.5 & 1.2.6 Additional skill oriented programmes and Combining Conventional & Distance Mode Programmes

The University prohibits the conduct of distance mode programs.

The details of additional skill development programmes are given in section 1.2.1.

1.3 Curriculum Enrichment

1.3.1 Supplementing University's Curriculum

One of the goals of the institution is to make students ready for higher studies, employable and if possible train them to be entrepreneurs. In this direction the Foreign Language courses and Communication skill development courses are conducted. In addition training programs are conducted on entrepreneurship for aspiring entrepreneurs.

1.3.2 Efforts made by the institution to enrich and organize the curriculum to enhance the experiences of the students

Based on the suggestions from industry, students and faculty, a few courses can be included in the curriculum such as 'Mathematical modeling', 'Fibre reinforced plastics', 'Regional Language Key boards' etc. These are suggested to the appropriate Board of Studies, through our faculty who are also member of the Board thus, enhancing the experience of students.

We try to give our students exposure to such courses either through guest lectures or through online resources such as NPTEL or coursera.

1.3.3 Efforts for cross cutting issues such as Gender, Climate Change, Environmental education, Human rights and use of ICT etc.

A Model United Nation (MUN) club is available in the campus, in which students volunteer to discuss about global issues such as Terrorism, Racial Discrimination, Gender Bias, Global Warming, Human Rights, Capital Punishment etc. Environmental study is already a course in most of the UG curriculum, based on the dictum of the Legal Authorities of India.

Laptops are an integral part of academic life at SSN. The entire campus is Wi-Fi enabled, so that the students can browse the net from any part of the campus at any time. A lot of information is passed on to the students through their college email id. The access to the intranet, which has the lesson plans and study materials posted by the individual teachers, cycle test schedule, placement related information, information regarding the impending visit of eminent people to the campus are informed through the intranet. Hence, ICT is being used extensively in the campus.

There is a "Good Citizens Forum" on campus which strives to promote a culture of respecting all and appreciating diversity, being enthusiastic and reflective, focusing on continuous development of self and community and pursuing professionalism in doing one's best in all endeavors.

1.3.4 Programmes for the holistic development of the student

The following programs and activities help in the holistic development of students:

- Youth Red Cross
- NSS
- Symposia organized by students
- “Instincts”, a national level cultural fest
- Clubs for music, dance, theatre, literary, photography and quiz
- Visits to villages for health camps and blood donation camps
- Entrepreneurship Development Cell
- Sports activities

Every year, for about a week, the volunteers live with the villagers, helping them with information such as how to get an LPG connection, a ration card, a community certificate etc. besides arranging blood donation and health camps. Students frequently visit one particular village for about three years, so that they can physically see, all their efforts to make the village self sufficient, clean, self empowered, illiteracy eradicated, minimal reliance on government and above all with self respect, bearing fruits. It is gratifying to note that they have developed an attachment with the village, as evidenced by their timely help, as alumni, during recent ravaging floods.

1.3.5 Enrichment of the curriculum from feedbacks from stack holders

The feedback is collected from employers, who come for recruitment; Alumni who come to share their experience in industry and occasionally, parents. The institution consolidates this for consideration by the Boards of Study.

1.3.6 Monitoring the enrichment of the programme

The feedback from employers, the number of students who get placed after all the training programmes, number of students who go overseas for higher education, students who take up research as a career, feedback from the alumni, all will indicate the results of the enrichment training given to students. More and more companies come for placement and many of them recruit good number of students, many of them having multiple placements. These facts go well to indicate that our enrichment programmes have given good dividends.

1.4 Feedback system

1.4.1 Contribution of the college in the design of the curriculum

From among the faculty, there are faculty who are members of the Boards of Study and Academic Council of Anna University. They collect information from their colleagues in the college, from Industrialists, employers, Alumni and scientists, when they visit the college, and these are discussed among the faculty and the outcome of the discussions are put forward to the Boards for adoption in future years. As the number of colleges affiliated to Anna University is considerably large, the adoption of suggestions by the colleges for modifications to the curriculum cannot be but minimal.

1.4.2 Feedback mechanism

There is a full-fledged feedback mechanism as far as students are concerned. But it mostly relates to the teaching learning process. The employers when they come for recruitment give only oral comments that a certain item can be added to or deleted from the syllabus for having become obsolete, or that students are not aware of a particular aspect in a course. Even then, they are discussed in the faculty meeting and rectification to the extent possible is made, and those which could be carried forward to the Boards of Studies will be made.

1.4.3 New courses and their rationale

During the past four years, no new UG programmes have been added in the college. The policy of the Management is to have more PG programmes which will ultimately result in developing research scholars. Hence, a few PG programmes such as Manufacturing Engineering, Energy Engineering, Medical Electronics and Environmental Science and Technology have been added during the last four years. Chennai is the hub for automotive, manufacturing and electronics industries. All our energy sources are fast dwindling. Hence, a new PG programme in energy was added. The planning without understanding the impact of industries on the environment such as pollution of ground water, draught, flooding, disappearance of bird species etc. warrant study of environment and hence its inclusion.

CRITERION II TEACHING-LEARNING AND EVALUATION

2.1 Student Enrolment and Profile

2.1.1 & 2.1.2 Transparency, criteria in admissions, criteria adopted and process of admission

The admission to UG programmes in Self Financing Engineering colleges in Tamil Nadu is done in two parts,

- Single Window Counselling (SWC), by the Government
- Consortium of Self Financing Colleges (CA)

While the first part is for 65% of sanctioned strength, the second is for 35% of the sanctioned intake. In either case, the admission is through merit only, merit based on the qualifying marks (Q) earned by the candidate in his/her +2 examinations, following the reservations prescribed by the Government of Tamil Nadu, both for SWC and CA. The qualifying mark $Q = [M + (P+C)/2]$, where M, P and C are percentage marks earned by the student in his +2 examinations in the subjects Mathematics, Physics and Chemistry, irrespective of the Board.

The admission to PG programmes is based on the marks earned by the candidate in the Tamil Nadu Common Entrance Test (TANCET) only, irrespective of the programme. Even in this, 50 % of seats are admitted through SWC, while the balance is admitted by the Consortium. At SSN College of Engineering, all PG programmes are residential. No advertisement is given for admissions, be it UG or PG, and if at all an advertisement is given, it is only to indicate the programmes available in the college.

The popularity of the college can be easily gauged by the fact that there are as many as 6500 applications for 273 Consortium seats in the First year of the UG programme.

2.1.3 Minimum and Maximum marks for admission at entry level

The quality of intake of students as marked by the qualifying marks in their qualifying examinations for the preceding year 2016-17 is given below:

Qualifying examinations for the preceding year 2018-17 is given below:			
Sl. No.	Programme	Qualifying marks or TANCET marks	
		Maximum	Minimum
UG (for 200)			
1	Electrical & Electronics Engg.	200	181.75
2	Electronics & Communications Engg.	200	183
3	Computer Science& Engineering	198	184
4	Information Technology	200	180
5	Chemical Engineering	199.33	179.50
6	Biomedical Engineering	195.75	176.50
7	Mechanical Engineering	198.50	180
8	Civil Engineering	199.67	178
PG (percentage)			
9	Communication Systems	34.01	20.40
10	Computer Science & Engineering	32.71	21.98
11	Applied Electronics	33.53	21.83
12	Power Electronics & Drives	36.80	23.43
13	Information Technology	30.76	23.13
14	VLSI Design	29.06	21.16
15	Soft Ware Engineering	-	-
16	Manufacturing Engineering	31.53	22.43
17	Energy Engineering	36.40	24.25
18	Medical Electronics	36.74	20.49
19	Environmental Science & Technology	-	-
20	MBA	64	51.6

2.1.4 Mechanism in the institution to review the admission process and student profiles

The institution does not have a role in the admission process.

2.1.5 Diversity and inclusiveness in admissions

The reservation policy of the Government of Tamil Nadu, takes care of the marginalized sectors of the society, viz. SC/ST, OBC, Differently-abled and Minority communities, there being no segregation or preference based on gender.

The walk-in-walk out scholarships attract students from different higher secondary boards in India.

The scholarship scheme for rural government school students brings in diversity of students from socio-economic backgrounds that face challenging circumstances.

The sports scholarship attracts students across the country who excel in sports at State, National and international level competitions conducted by accredited Sports Boards.

This is further accentuated by admissions offered to students from Vidya Gyan in UP. This is an Institution run by the Shiv Nadar Foundation to offer totally free school education to students from underprivileged backgrounds from rural Uttar Pradesh.

2.1.6 The trend of admissions

The following Table gives the trend of admissions for various programmes offered by the college during the past four years, where X is the Number of applications received, Y the Sanctioned strength under Managemeeent quota and Z the Demand ratio X/Y . When the number of applications (especially for some PG programmes) is less than the sanctioned strength, the demand ratio is not given.

Sl. No.	Programme	2012-13			2013-14			2014-15			2015-16			2016-17		
		X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z
UG																
1	EEE	3640	42	86.7	3360	42	80	3450	42	82.1	4140	42	98.6	3500	42	83.3
2	ECE	3640	42	86.7	3360	42	80	3450	42	82.1	4140	42	98.6	3500	42	83.3
3	CSE	3640	42	86.7	3360	42	80	3450	42	82.1	4140	42	98.6	3500	42	83.3
4	IT	3640	42	86.7	3360	42	80	3450	42	82.1	4140	42	98.6	3500	42	83.3
5	Chemical	1890	21	90	2640	21	125.7	2360	21	112.4	3140	21	149.5	2450	21	116.7
6	BME	1890	21	90	2640	21	125.7	2360	21	112.4	3140	21	149.5	2450	21	116.7
7	Mechanical	3640	42	86.7	3360	42	80	3450	42	82.1	4140	42	98.6	3500	42	83.3
8	Civil	1890	21	90	2640	21	125.7	2360	21	112.4	3140	21	149.5	2450	21	116.7
PG																
9	Communication Systems	33	18	1.8	68	18	3.8	38	18	2.1	25	18	1.4	8	For Lapsed seats	
10	CSE	70	12	5.8	71	12	5.9	58	12	4.8	35	12	2.9	15		
11	Applied Electronics	11	6	1.8	22	6	3.7	28	6	4.7	10	6	3.3	4		
12	PED	32	6	5.3	65	6	10.1	35	6	5.8	21	6	3.5	12		
13	IT	6	3	2	12	3	4	8	3	2.7	5	3	1.7	2		
14	VLSI	38	18	2.1	71	18	3.9	44	18	2.4	18	18	1	12		
15	S/W Engg.	9	3	3	4	3	1.2	2	1	2	3	3	1	-		
16	Mfg. Engg	6	3	2	21	3	7	33	3	11	12	3	4	12		
17	Energy	18	3	6	7	3	2.3	14	3	4.7	6	3	2	5		
18	Medical Electronics	-	-	-	-	-	-	2	1	2	7	3	2.3	5		
19	Environmental Sci. & Tech.	-	-	-	-	-	-	2	-	-	5	-	-	1		
20	MBA	479	60	8	438	60	7.3	554	60	9.2	324	60	5.4	371	60	6.18

2.2 Catering to Student Diversity

2.2.1 Catering to the needs of differently-abled students

Corridors with ramps and rest rooms are provided for differently-abled students.

2.2.2 Assessing the students needs in terms of knowledge and skills

A cursory glance of the Table given in the section 2.1.3 will indicate that the average qualifying mark is about 80%. Due to change of environment and a change in the pattern of teaching at the college compared to that prevailing in the schools, at times students find it difficult to grasp the subjects especially during the first semester. It is found that Language contributes heavily to the heterogeneity of students admitted. Hence, all students are given a diagnostic test in English at the very beginning, and depending on the outcome of the test, special language classes are conducted for the non-performing students to equip them with necessary language skills. This is done during the first week of their admissions itself.

2.2.3 Strategies adopted by the institution to bridge the knowledge gap of the enrolled students

In Tamil Nadu, five types of students are admitted to the Engineering Programmes. They are:

- i. Students coming from English medium Central Board schools
- ii. Students coming from English medium State Board Schools
- iii. Students coming from Tamil medium schools
- iv. Students coming from Vocational stream
- v. Lateral entry students

Generally, the first three categories of students cope up with the requirements for engineering studies. Students from Tamil medium schools face challenges due to the medium of instruction. Students from the vocational stream do not study Physics and Chemistry during their earlier education and their understanding of Mathematics is also inadequate. Special coaching classes are held for these students in English, Mathematics, Physics and Chemistry. Over the period of one year, they are able to communicate, understand lectures and analyze problems.

Lateral entry students are admitted to the second year directly after their diploma in polytechnic colleges. Though they are good in the subjects relating to the trade of their choice, their communication skills and mathematical skills require to be supplemented. Hence special classes are arranged for them also in English and Mathematics.

2.2.4 How does the college sensitize its staff and students on issues such as gender, inclusion, environment etc.?

The Institution is a co-ed institute and the term 'student' is inclusive for all practical purposes. The gender ratio is approximately 1:1 among students and faculty. The institute promotes free interaction unbiased by gender and has several forums, where a lady is a Chairman and she co-opts men as members. There are policies in place to prevent discrimination based on gender. During orientation of the students and faculty, all newcomers are made aware of the institute's gender and inclusion policies. All facilities are provided in the campus to ensure that both the genders are able to utilize all the infrastructure and opportunities for their development. Sufficient grievance redressal measures are in place to ensure upholding of the gender policies of the institute.

The Institution strives to inculcate the importance of environment preservation among the students. The campus has a dedicated nursery from where the students and staff are encouraged to procure plants for their personal use. Tree plantation drives are organized by the various cells both inside the campus and in nearby villages.

2.2.5 How does the institution identify and respond to special educational / learning needs of advanced learners?

The Institution strives to ensure that it is able to assist both slow learners as well as learning needs of the advanced learners. To help advanced learners they are advised to take part in seminars and conferences. They are encouraged to papers and publish in technical journals under the guidance of faculty members. They are also advised to crystallize their ideas into a project, which might earn them funding from the Institution. If it shapes into a viable project for external funding, the student is encouraged to apply for the same. Students, who are desirous of pursuing their studies in foreign universities, are counseled regarding selection of Universities and colleges.

2.2.6 Drop outs among students and addressing them

It has been generally observed that the dropping out of students is in the category of Vocational stream students only. Rarely other students tend to drop out, and if at all they do, it is due to heavy back log of subjects. In an effort to minimize this by giving personal attention, during the first year, 15 students are attached to a faculty of Science & Humanities and later on (after first year) to a faculty in their own department, who continues to be his/her mentor for the rest of the programme. The mentors meet the students once a month and are generally able to locate students who need some sort of counseling.

The college has a Students Counselor who is a qualified psychologist. She interacts with faculty mentors to identify students with a backlog of arrears, who are emotionally unstable, weak and depressed. Counseling if done for these students on a one-to-one basis as frequently as needed, to advise suitably and follow up. Hence, drop outs are insignificant.

2.3 Teaching - Learning Process

2.3.1 Organisation of Teaching, Learning and evaluation process

As per the university regulations, the college must have 90 working days per semester. With this in mind, a calendar is prepared to give dates of reopening, holidays and dates for other events such as Annual day, Sports Day, Seminar Week, Graduation day etc. This is printed and given to all faculty and students at the beginning of the academic year. In a typical 4 year engineering programme, there are about 45 theory courses and 14 practical courses, besides a Project in the final semester. Of these 47% are predominantly lecture based and the rest 53% for which ICT is extensively used.

The examination comprises two components, the internal assessment component for 20% and the end of semester examination accounting for the rest.

For the Internal assessment, there are three cycles of tests spread evenly over the entire period of the semester. The first cycle test generally commences after the first 15 working days of that semester. One cycle of tests lasts for 3 weeks. The time table for the cycle tests is given atleast a week ahead of commencement of tests. The tests are conducted centrally, during the first two periods of Mondays and Fridays. The end semester examinations commence after the third cycle test.

2.3.2 How does IQAC contribute to improve the teaching – learning process?

IQAC is christened as Quality Management System in the college. It is formed around shared pedagogical interests or practice and is centered on faculty and Students as stakeholders. Focus is on productive Teaching and Learning process through effective implementation of curriculum through experiential learning. Ideally it represents multiple Teaching and learning methods such as classroom teaching (Lectures), Assignments, Lab Experiments, Case Studies, Research, Simulations Exercises and mini projects.

QMS identifies a focus of choice that may include active learning, Course Plan, Lesson Plan, Beyond Syllabus exercises, assignment design, application of course concepts, teaching large lecture courses, and integration of technology, to name a few. The QMS then formulates a process through which it engages to focus across the semester. This process may include, but is not limited to:

- Reviewing a sample of Course Plan, Lesson Plan, Assignments and/or class exercises
- Auditing Continual Improvements

2.3.3 Student centric learning and exposure to Technology enhanced learning

The teaching-learning process comprises three steps.

The teacher prepares the teaching plan and it is approved by the HoD. The teacher informs the students the availability of this in the intranet, in addition to indicating the location of other sources of information such as books for reference, CDs, illustrations, flow diagrams etc.

In the class, the teacher gives explanations for the uploaded material and gives additional information regarding the same and calls for any queries. In case of problem-oriented subjects, he takes the help of another teacher and gives problems for students to solve in the class itself. This is particularly helpful as in this case the instructions are given on a one to one basis, and the students shed all the inhibitions they might have, thus ensuring student centric learning.

The library has as many as 2500 CDs of live lectures of eminent professors from institutions of repute viz. IITs, in addition to free access to NPTEL lectures and this forms the self learning part of the teaching-learning process.

2.3.4 How does the institution nurture critical thinking, creativity and scientific temper among the students to transform them into life-long learners and innovators?

Practical exposure to students is an important part of teaching to help students nurture critical thinking, creativity and scientific temper. While the library is open till late in the night, the laboratories of the institute are open to desiring students. The student can do experiments and seek the advice from a faculty member for validation and further guidance.

Students are encouraged to develop working models from resources available, thus rendering lifelong learning a passion among students. Students are encouraged to team up with faculty for submitting innovative proposals to the management for funding. External experts scrutinize the proposals and students present their thoughts and arguments in favour of the project proposals. Students are incentivized for their creativity and critical thinking by the institution by providing seed funding for innovative projects. Most of these projects lead to publications in refereed international journals.

2.3.5 What are the technologies and facilities available and used by the faculty for effective teaching?

The institute has adopted the e-learning technology and this is used for at least 90% of the courses taught. NPTEL lectures are available for browsing in the library. Further Anna University beams through 'EDUSAT' lectures on specific topics. But the scheduling is a constraint. A large number of CDs are available in the library, on various subjects and as everyone has a lap top, the student can browse through the contents at his own time and pace.

The entire campus is fully Wi-Fi enabled and with repository of teaching materials on the intranet facilitates students' preparation prior to class sessions.

Classrooms have projectors and laptops to ensure that teachers could use all electronic teaching aids at their disposal.

2.3.6 How are the students and faculty exposed to advanced level of knowledge and skills (blended learning, expert lectures, seminars, workshops etc.)?

Scientists from Research organizations, persons from industries and academicians from other Universities are invited to deliver lectures to students as well as faculty. Every year students organize an annual seminar on a suitable topic inviting experts and students from other colleges to give lectures, demonstrations etc.

Every department of the institute organizes a National level technical symposium where students and experts from all over the country participate and exchange ideas and concepts related to their fields.

2.3.7 Detail (process and the number of students benefitted) on the academic, personal and psycho-social support and guidance services provided to students?

The detailed teaching learning process is described in section 2.3.11 in this report. A mentor is available for every 15 students, who guides the students through the entire programme and gives academic counseling where necessary. A qualified student counselor is available in the campus, who identifies the students needing psychological counseling and interacts with them on a one-to-one basis. Academic student mentors, help the counselor in identifying the students, who need counseling. It has been observed that counseling is found necessary for students, who are first generation learners, students who could not express themselves in English, those with large number of back logs and also occasionally for those who have relationship issues.

2.3.8 Innovative teaching approaches/methods adopted by the faculty and the efforts made by the institution to encourage the faculty to adopt new and innovative approaches.

Faculty extensively use technology and teaching aids along with practical aspects to teach students. Course materials are prepared in advance and shared with students on the intranet. This facilitates students' preparation prior to class sessions. Every classroom has projectors and laptops to ensure faculty deliver their lectures in an innovative way. This ensures that classrooms are a place to interact and exchange ideas rather than just for delivery of lectures.

When innovative teaching was introduced in 2005, faculty had their own reservations and it was adopted only for courses needing elaborate sketching e.g. Engineering Graphics, Basic Mechanical Engineering, Construction methods etc. But over a period of time, having learnt the nuances of it, it is now

adopted extensively across the UG & PG curricula and there is good acknowledgement from students as well.

2.3.9 Library resources used to augment the teaching-learning process.

The college has an excellent library having as many as 88,300 volumes of books, about 303 print version journals and almost 11285 journals which can be browsed on line. Students are asked to refer to the library resources on a topic of their choice and give a lecture to their own classmates, which dispel their stage fear and gives them a chance to explore the avenues of knowledge available in the library. Students can access the library resources even from the comfort of their hostel rooms.

2.3.10 Does the institution face any challenges in completing the curriculum within the planned time frame and calendar?

A 90-day working semester is necessary for a student to appear for the semester examinations conducted by the University. The curriculum and the syllabi have been so framed that in about 45 to 55 periods one will be able to complete the syllabus. If due to unavoidable circumstances such as social disturbances, floods, elections etc. the number of regular working days is insufficient, special classes are conducted on Saturdays and curtailing even religious holidays.

2.3.11 Mentoring, counseling, class committee and monitoring teaching-learning

As mentioned earlier, about 15 students are linked to one teacher, who is teaching them and will be their mentor. During the First year, where students are fresh from schools, have their own inhibitions. First year subjects are mostly from Science and Humanities, hence faculty from those departments are identified as mentors. The student can meet his/her mentor and pose his/her adjustment and academic problems and seek redressal. From second year onwards, students move to the departments of their choice and hence one of their department faculty is nominated as a mentor, who will be mentoring them during the next 3 years. The mentor keeps a complete record of the student's accomplishments, his attitudes, interests, weakness etc.

In the first year, students come from a protected environment at the school, to the college, where their counterparts may or may not think and behave as he has been accustomed to. They come across fast learners, slow learners and sometimes they might even feel that they have landed in an institution not to their liking and feel depressed. Such cases are referred to the student counselor, who is a qualified psychologist, who talks to them individually and counsels them as needed.

A class committee, comprising a cross-section of students – slow learners, fast learners, girls, boys, sports-persons and the faculty teaching the class, chaired by one senior professor from the department, is formed during the

beginning of the semester. This committee meets thrice a semester to discuss about the teaching – learning process and to get a feel of difficulties encountered by the students and faculty. During the First meeting, the discussions are about the purpose of the class committee, University regulations, how the students can express their difficulties and get them redressed. The second meeting is after the first Unit test and the Third one will be after the second test. It has been found to be very useful to both the faculty and students; to faculty about the inattentiveness in the class and absenteeism of students and to students that the teaching being fast, not audible etc. For example, the BME students, most of who are Biology students, requested for special classes on computers. Students admitted under rural quota requested for the lectures with an admixture of Tamil and English etc.

Besides the students' attendance, the teacher's log book shows the pace at which the course is conducted and the performance of students during the semester. This is submitted to the Principal to keep him in the know of things.

Hence, the material uploaded on the Intranet, minutes of the class committee meetings and the periodical entries in the teachers log book are good tools to monitor the teaching-learning process.

2.4 Teacher Quality

2.4.1 Recruitment Process and quality of teachers

The teacher being the key person in a teaching institute, every care is taken to recruit quality persons, devoted to teaching. The number of faculty recruited is aimed so that the faculty strength is not less than 1/15 of the number of students with a cadre ratio of 1:2:6 for UG Programmes. For PG, the number of faculty must be at least 3 for an intake of 18 and the faculty student ratio aimed is 1:12, with atleast one Ph.D. holder for each of the programmes. Care is taken to ensure that all HoDs, Professors and Associate Professors are Ph.Ds.

The faculty selection committee is as prescribed by the AICTE and University viz. Principal (Chairman), with HoD, subject expert from IIT / Anna University, a nominee of AICTE and a nominee of Anna University as members. Though the committee meets as and when it is necessary, normally the recruitment is done during summer, so that the teacher is available during the beginning of the academic year itself. The directive from the Management, to have as many Ph.Ds as possible without sacrificing the aptitude to teach and at the same time do research, is always borne in mind. The salary is paid as per Sixth Pay Commission pay scales with dearness allowance as proposed by the Government of Tamil Nadu. Other perquisites include group medical insurance, special allowance for Ph.D., incentives for earning external funded projects, Ph.D. guidance, publications etc. These along with a good working ambience make SSN an excellent institution to work at. The attrition rate is as low as one percent. The following Table gives a glimpse into quality of faculty at present:

Sl. No.	Highest Qualification	Professor		Associate Prof.		Assistant Prof.		Total
		M	F	M	F	M	F	
1	D.Sc./D.Litt.	-	-	-	-	-	-	-
2	Ph.D.	28	17	78	39	17	20	199
3	M. Phil.	-	-	-	-	2	-	2
4	PG	3	-	2	-	29	40	74
Total								275
Temporary Teachers and Part-Time Teachers - NIL								

All faculty are recruited against permanent vacancies and are regularised after a probation period of one year.

2.4.2 How does the institution cope with the growing demand/scarcity of qualified senior faculty to teach new programmes/modern areas (emerging areas) of study being introduced (Biotechnology, IT, Bioinformatics etc.)?

The institute has experienced such a situation, especially in the Computer related divisions, when the IT industry was in boom. It was overcome by announcing an additional compensation of about 20% for Computer trained faculty. But currently it is not adopted.

The institution has in place policies to attract and retain highly qualified faculty members. The institute offers good compensation alongwith other perks and benefits like management funding for projects, research facilities, academic freedom, housing on campus and other welfare schemes. This has ensured that faculty positions in the institute are much sought after. This coupled with low attrition rates has ensured adequate qualified senior faculty for all areas at all times.

2.4.3 Providing details on staff development programmes during the last four years elaborate on the strategies adopted by the institution in enhancing the teacher quality.

a) Nomination to staff development programmes

A teacher will have to be a lifelong learner; only then, he will be able to teach the current trends to the students besides updating himself. To achieve this, every opportunity is given to him to participate in Seminars, Conferences, FDPs etc. organized by external agencies, university and other institutions. Faculty development programmes and National and International conferences are organized by the respective departments, to propagate the knowledge that is nascent as presented in the following Table for the year 2016-17:

Sl. No.	Academic Staff Development Programmes	Number of faculty Nominated
1	Refresher courses	8

2	HRD Programmes	6
3	Orientation Programmes	12
4	Staff Training programmes organized by the University	25
5	Summer/winter schools, workshops etc.	8

a) Faculty Training programmes organized by the institution to empower and enable the use of various tools and technology for improved teaching-learning

Number of Faculty Development programmes, conferences, workshops organized by the college from 2012-16 are given below:

Sl. No.	Description of the Programme	Number
1	Faculty Development Programmes	31
2	National Conferences	13
3	International Conferences	11
4	Workshops	98
5	Seminars	75
6	Content Development	12

b) Percentage of faculty

Faculty members who were invited as resource persons, participated and presented papers in workshops/seminars/conferences as against the total number of faculty of 277 during 2016-17:

Sl. No.	Description	Number of faculty
1	Invited as resource persons in Workshops/Seminars/Conferences organized by external Professional agencies	75
2	Participated in external workshops / seminars / conferences recognized by national / international professional agencies	147
3	Presented papers in external workshops / seminars / conferences recognized by national / international professional agencies	185

2.4.4 Policies adopted by the Management to improve the knowledge content of faculty

The following policies help improve the academic acumen of the faculty

- Incentive for publication of papers
- Incentive for earning external funded projects
- Incentive for guiding research
- Incentive for organizing a National / International conference

- Seed money for a prospective project, so that on fructification can be submitted to an external funding agency for funding
- Incentive for a worthy innovative idea
- Incentive for applying for / winning a patent
- Travel Grant

The number of faculty who have received such awards during 2016-17 is given below:

Sl. No.	Incentives based on	Number of faculty
1	Number of papers published in journals of repute	276
2	Number of external funded projects earned	17
3	Number of Ph.D. students guided	174
4	Number of Conferences organized: National International	16 8
5	Number of Internal funded projects earned	68
6	Innovative ideas created	7
7	Number of Patents: Submitted Earned	6 1
8	Number of faculty granted travel grants	21

2.4.5 Give the number of faculty who received awards / recognition at the state, national and international level for excellence in teaching during the last four years. Enunciate how the institutional culture and environment contributed to such performance/achievement of the faculty.

The institute encourages the faculty to adopt innovative teaching practices. These incentives are designed towards excelling in teaching, study tours to Indian and foreign universities and learning from the Best Practices of peers. The focus on travelling to other institutes for study tours, participation in conferences and seminars and formal and informal collaborations lead to expanding the horizons of the faculty and ensures novelty in the teaching process. This has resulted in several awards as mentioned below for our faculty members.

EEE

Sl. No.	Name of the faculty	Awards / recognition received
1	Dr. V.Kamaraj	<ul style="list-style-type: none"> • ISTE Best Engineering College Teacher Award 2013 • IET CLN Diamond Salute Award, 2014
2	Dr. V. Rajini	CTS Best Faculty Award in 2011
3	Dr. R. Rengaraj	TATA Rao Gold Medal from Institution of

		Engineers (India) for the publication of best paper in Electrical Engineering Division
4	Dr. R. Seyezhai	<ul style="list-style-type: none"> • CTS Best Faculty Award in 2013. • Best Academic Researcher award - 2015 ASDF-2015 • Outstanding Faculty in the Field of Power Electronics By Venus International foundation, Chennai 2015
5	Dr. R. Ramaprabha	<ul style="list-style-type: none"> • "Excellence in Reviewing Papers" from International Journal of Power Electronics • Outstanding Researcher award" in Aufau International Awards, Dec 2016 • IET CLN – Sir C.V.Raman Research award 2014

ECE

Sl. No.	Name of the Faculty	Awards / Recognitions received by faculty
1	Dr. S. Salivahanan	<ul style="list-style-type: none"> • Bharatiya Vidya Bhavan National Award for Best Engineering College Principal from ISTE • Chairman of IEEE Microwave Theory and Techniques Society, Chennai Chapter. • Past Chairman of IEEE Madras Section. • Executive Committee Member of IEEE Madras Section. • TATA Rao Gold Medal from Institution of Engineers (India) for the publication of best paper in Electrical Engineering Division. • Member of Education Panel, FICCI • Chairman, ASSOCHAM - Education & Skill Development Expert Committee
1	Dr. S. Radha	<ul style="list-style-type: none"> • Recipient of IETE SK Mitra Memorial Award from India council of IETE and TPC GWS 2015. • Executive Committee Member of IEEE Madras Section.
2	Dr. K. T. Selvan	<ul style="list-style-type: none"> • IEEE AP-S Region 10 Distinguished Speaker, 2015-16 and Past Chairman of IEEE Antenna and Propagation Society, Chennai Chapter. • Fellow, Higher Education Academy (UK).
3	Dr. S. Joseph Gladwin	<ul style="list-style-type: none"> • Chairman of IEEE Antenna and Propagation Society, Chennai Chapter. • Executive Committee Member of IEEE Madras Section.

4	Ms. P. Kaythry	Best NSS Program Officer award consecutively for four years from Anna University, Chennai.
5	Dr. S. Sakthivel Murugan	<ul style="list-style-type: none"> • Young Researcher Award (2015) from Centre for Advanced Research and Design, Venus International Foundation, Chennai. • "Sahyog Teachers 2016 Award" by Redington

CSE

Sl. No.	Name of the Faculty	Awards / Recognitions received by faculty
1	Dr.Shomona Gracia Jacob	Best Young Teacher Award by the GRABS Educational Charitable Trust.
2	Dr. Chitra Babu	<ul style="list-style-type: none"> • MEC Champion faculty award. • "Sahyog Teachers 2016 Award" by Redington
2	Mr. V. Balasubramanian & Ms. S. Kavitha	MEC Champion faculty award.
3	Dr. D. Venkata vara Prasad	<ul style="list-style-type: none"> • Senior Educator and Scholar award from National Foundation for Entrepreneurship Development, Coimbatore Sep 2016 • CTS Best faculty award in 2012.
4	Dr.A.Chamundeswari	<ul style="list-style-type: none"> • Senior Educator and Scholar award from National Foundation for Entrepreneurship Development, Coimbatore, Sep 2016

IT

Sl. No.	Name of the Faculty	Awards / Recognitions received by faculty
1	Mr. R. Vinob Chander and Ms. S. Sasirekha	Won the first prize in May 2015 for the Real-time Parking Management System (RPMS) app developed by them at the Hackathon conducted by Great Indian HP Code Off @ GIDS. They get Round-Trip Tickets to USA for their accomplishment.
2	Dr. T. Sree Sharmila	"Young Women Achiever Award" (Engineering) by Venus International Foundation during March 5, 2016
3	Dr. G. Muneeswari	"Best Teacher Award" from GRABS Educational Charitable Trust on November 1, 2015

Chemical

Sl. No.	Name of the Faculty	Awards / Recognitions received by faculty
1	Dr. R. Parthiban	<ul style="list-style-type: none"> Editorial Board Member in International Journal of Water Resources and Environmental Engineering Executive Committee Member, Indian Institute of Chemical Engineers, Chennai Regional Centre
2	Dr. V. Jaikumar	<ul style="list-style-type: none"> Glory of Education Excellence Award 2013 by National and International Compendium, New Delhi. Outstanding Educationalist award 2014
3	Dr.K.Jagannathan	<ul style="list-style-type: none"> Excellent Professional Achievement Award 2016 from Society of Professional Engineers (India) Silver medal for Invention, Innovation & Design Exposition 2015 (iindex2015) held at Universiti Teknologi MARA, Shah Alam, Malaysia. Won Silver medal for Invention, Innovation & Design Exposition 2014 (index2014) held at Universiti Teknologi MARA, Shah Alam, Malaysia during.
4	Dr. R. Anantharaj	<ul style="list-style-type: none"> Editorial Board Member of Journal of Innovative Engineering (JIE) Editorial Board Member of Journal of Computational Methods in Molecular Design (JCMMD) ICHEME awards 2014 in Malaysia for The Petrochemical Processing Award in 2014. Full Financial Award by Human Resource Division (HIR), University of Malaya 2013. ProSPER.Net-Scopus Young Scientist Award 2013.
5	Dr. P. Senthilkumar	<ul style="list-style-type: none"> Innovative Professional Award from Society of Professional Engineers (India) CTS Best faculty award in 2014. “Young Scientist Award” with a cash award of Rs. 20,000/- from “The Professor Venkatachalam Research Foundation”, K.S.Rangasamy College of Technology, Tiruchengode.

		<ul style="list-style-type: none"> • “Young Scientist Award” from Centre for Advanced Research and Design, Venus International Foundation. • Most Cited Authors Award for top cited article in the year 2012 from Elsevier; Article Name: Adsorption behavior of nickel (II) onto cashew nut shell: Equilibrium, thermodynamics, kinetics, mechanism and process design, Chemical Engineering Journal, Vol. 167 and 2011, pp. 122-131. • “Young Scientist Award” from Aufau International Awards 2016, organized by an International Journal titled "Chemical Science Review and Letters" held at Hotel Silver Palace, Salem.
6	Dr. D. Balaji	Executive Committee Member, Indian Institute of Chemical Engineers, Chennai Regional Centre

BME

Sl. No.	Name of the Faculty	Awards / Recognitions received by faculty
1	Dr. S. Pravin Kumar	Best Teacher Award from Schneider - Electric India
2	Dr. V. Mahesh	TI design contest Award
3	Dr. Mallika Jainu	<ul style="list-style-type: none"> • Prof. Satyanarayana Award from Association of Pharmaceutical Teachers of India • International Biopharmaceutical Association Scholarship Award
4	Ms. B. Geethanjali	<ul style="list-style-type: none"> • Project titled “A PDA to quantify driver’s attention using EEG biofeedback” guided by Ms B. Geethanjali was presented to six panel members currently working in TCS and Cognizant. Was awarded the second prize for further progress of the project • TI design contest award, Schneider - Electric India
5	Ms. Delpha. J	Best project - Won the first prize with a cash award of Rs 50000/- in “National Contest for Demonstrating Innovative Prototypes for Start-Ups” conducted by National Research Development Corporation (NRDC) in collaboration with National Scientific And Industrial Research (NSIR), Ministry of Science and Technology

Mechanical

Sl. No.	Name of the Faculty	Awards/Recognitions received by faculty
1	Dr. K.S. Vijay Sekar	CTS Best faculty award in 2015
2	Dr. N. Nallusamy	CTS Best faculty award in 2016
3	Dr.A.K.Lakshmi Narayanan	Outstanding Reviewer Award given by Taylor & Francis Group for Reviewing Research Papers for “Materials & Manufacturing Processes” for the consecutive third time during 2016-17

Civil

Sl. No.	Name of the Faculty	Awards / Recognitions received by faculty
1	Dr. R. Rajkumar	Editorial Board Member in International Journal of Design and Manufacturing Technology

Science and Humanities

Sl. No.	Name of the Faculty	Awards / Recognitions received by faculty
1	Dr. N.P. Rajesh	“Young Scientist Award” and a Citation from International Organisation for Crystal Growth at Doshishe University, Kyoto, Japan.

2.4.6 Faculty Evaluation by students and usage of the same

Feedback about faculty is obtained from students at the end of each semester for each course. A feedback is on issues such as teaching activities and skills, knowledge, innovativeness, usage of ECT, bias-free evaluation etc. The feedback by students is a component of the Faculty evaluation and career enhancement. The feedback is generally used as a mechanism for improvement.

2.5 Evaluation Process and Reforms**2.5.1 Student evaluation**

The student evaluation comprises essentially of two components viz. (a) continuous internal assessment and (b) end semester assessment by the University. While the former is for a maximum of 20 marks, the balance is for the latter. The total marks earned in the subject are converted in to letter Grades S, A, B, C, D and E with each letter being given a Grade Point, G in numbers.

$$\text{Grade Point Average for the semester } GPA = \frac{\sum_{i=1}^n C_i GP_i}{\sum_{i=1}^n C_i}$$

where C_i - is the Credit assigned to the course

GP_i - is the point corresponding to the grade obtained for each course

n - is number of all courses successfully cleared during the particular semester in the case of GPA.

The summation is made for the subjects in that particular semester. When the summation is done for all the subjects of all the preceding semesters and including the current semester, it is Cumulative Grade Point Average CGPA. The student is classified to have passed in First Class with distinction, First or Second class based on CGPA he has earned upto and including the eighth semester for the UG and up to and including the Fourth semester for the PG programmes.

The test schedule is given in advance and is conducted centrally similar to the University examinations. For valid reasons, if a student is absent for a test, he is given a retest at the discretion of the teacher. The teacher offering the course uploads the test marks in the University web portal immediately after the evaluation of every test in his subject.

2.5.2 What are the major evaluation reforms of the university that the institution has adopted and what are the reforms initiated by the institution on its own?

The University constitutes a board of examiners separately for central valuation of each category (for various sciences, humanities and for various engineering and technology disciplines) consisting of a Chairman, Chief Examiners and Examiners.

There is a provision in the University for revaluation of the answer scripts as well as for students to obtain photocopies of the evaluated answer scripts. On the recommendations of HoD and Principal, the answer scripts of University examinations are revalued by the University. In case the student is not satisfied with the outcome of the revaluation or the marks obtained by him, university has a provision to go in for a CHALLENGE. However the marks obtained by the student will be the best of all the above.

The institution continuously reviews the evaluation process done internally and necessary changes as and when applicable/ required are implemented. There are three tests which form part of internal evaluation for every subject. The institute encourages the teachers to experiment with various evaluation techniques to test learning of students.

In addition to the above, regular assignments are also part of the evaluation process.

2.5.3 How does the institution ensure effective implementation of the evaluation reforms of the university and those initiated by the institution on its own?

For the effective implementation of the reforms advised by the university, the college has an exclusive Examination Cell headed by a Professor for overseeing the conduct of all the internal and external examinations. Question papers are set by different faculty and handed over to the Examination Cell for ensuring smooth conduct of the evaluation.

The results are analysed and reviewed by the HoD so as to plan and execute corrective actions, if any. The above method ensures a fool proof method of implementation of evaluation reforms.

2.5.4 Provide details on the formative and summative assessment approaches adopted to measure student achievement. Cite a few examples which have positively impacted the system.

The institution conducts tests every Monday and Friday for the students. Tests are conducted after the completion of roughly 30% of the overall syllabus of a particular course. Atleast three tests are conducted for any particular course. The tests are so designed that students have to understand the concept and apply it to problems to do well in the tests. This takes care of the formative assessment of the students. The final examinations of the subjects and the practical examinations are the summative assessments and they ensure that students have understood the concepts and their applications. Funded projects and mini-projects test their use of these concepts.

2.5.5 Detail on the significant improvements made in ensuring rigor and transparency in the internal assessment during the last four years and weightages assigned for the overall development of students

The University prescribes 80% for end-of-semester examinations conducted by the University and 20% for the CIA component, awarded by the college. The internal assessment is the average of three tests conducted for a course during the semester. The University specifies dates for uploading each of the three test marks in its portal. The tests are conducted centrally, on the same fashion as that of a University examination, thus ensuring rigour and transparency, evaluated for a maximum of 100, giving equal weightage for all the tests and uploaded in the portals of the University, on the dates specified. The uploaded marks are available on the portal for the student to see thus, eschewing any complaint. The University computes the internal assessment marks. The behavioural aspects and independent learning are not quantified and included in awarding the IA marks. However, they are taken into consideration

while selecting students as student office bearers for various activities in the college such as Literary club, Music Club, Secretary to organize student seminars etc. in the college.

2.5.6 Graduate Attributes (GA) of the college

The college expects the following Graduate Attributes from the students graduating from the college:

- a. To have good listening skills and ability to communicate
- b. To serve to the society at large
- c. To have excellent engineering knowledge & skills
- d. To use modern tools
- e. To have strong analytical skills
- f. To design and develop solutions
- g. To have individual and team working skills
- h. To be a lifelong learner
- i. To have positive work ethics

The number of students who gain admissions in Institutions of higher learning both in India and overseas, the number of students who get placed in reputed organizations and the count of students who venture as entrepreneurs are indicators of the achievement of the GA.

2.5.7 Grievance Redressal mechanisms

There are two distinct grievances that could come from students, one relating to the college and the other relating to the University. Grievances relating to the college can be addressed to the teacher concerned, or the HoD concerned or the Grievance Redressal Committee (GRC) of the college for redressal. The GRC, generally meets once in a month, or earlier as situations warrant, and try to address the student's grievances. Grievances relating to the University can be addressed to the Registrar or the Controller of Examinations of the University, as the case may be, and routed through the Principal.

2.6 Student Performance and Learning Outcomes

2.6.1 Learning outcomes of the college

Learning outcomes (LO) are statements that specify what learners will know or be able to do as a result of a learning activity. Outcomes are usually expressed as knowledge, skills, or attitudes. Through a series of lectures and practical classes, he tends to absorb the knowledge that is 'spread' in the class. The LOs can be achieved through the classroom teaching and supplemented by tutorials and practicals.

It is expected that the teacher explains the topics in a lucid manner so that the student absorbs them and will be using them in furthering the courses. The verification of the course material by the HoD and the deliberations at the class committee meetings ensure these aspects.

The CIA and ESA are assessments to check if outcomes are achieved. Every subject has lesson plans and every lesson plan has the specific learning outcome. Lesson plans are displayed on the college intranet. All lesson plans are reviewed by the HoDs concerned.

Also in every class the faculty clearly explains the learning outcomes to the students and in the class, evaluation is designed to test the same.

2.6.2 Monitoring the progress of the students and communicating them during the progress of the course

The tutorial sessions are the best period when the teacher closely interacts with the students and the student freely expresses his difficulties. Many faculties decide on giving assignments in between the tests and the performance of the students in them again indicates if the student has assimilated what has been taught. The cycle test mark is yet another indication of the performance of students. The college makes it a point to communicate to the parents the marks the student has earned during the first and second cycle of tests so that the parents are aware of the performance of their wards and corrective actions can be initiated by them also. The average pass percentage of the class in the end semester examination is also an indication of the general progress of the class as a whole. The average pass percentages of the batch that passed out in 2015-16 as they passed through various semesters of B.E./B.Tech. degree programmes are indicated in the Table below:

Sl. No.	Branch	Average pass percentage of the class during the semester							
		1	2	3	4	5	6	7	8
1	EEE	94.44	88.71	76.5	84.6	85.03	77.6	94.56	95
2	ECE	97.54	90.98	78.87	81.43	92.03	86.96	86.96	97.83
3	CSE	96.82	96.03	81.12	83.22	85.33	81.21	83.78	92.47
4	IT	96.8	91.20	69.44	79.72	87.14	84.56	87.86	98.56
5	Chemical	95.16	93.55	79.10	92.4	100	93.94	98.48	100
6	BME	91.67	88.14	68.66	73.13	91.04	83.58	85.07	94.03
7	Mech.	95.23	94.44	78.23	85.71	92	89.25	92.62	97.32
8	Civil	88.71	93.55	64.79	77.46	85.90	80.28	76.06	97.18

2.6.3 How are the teaching, learning and assessment strategies of the institution structured to facilitate the achievement of the intended learning outcomes?

As mentioned elsewhere the students at the institution are trained to be inquisitive and curious and to master the concepts and their applications. The classroom interactions encourage the presenting and arguing of their technical ideas through project submissions and presentations. The weekly tests ensure that applications and concepts are learned and worked upon. They also provide feedback to the faculty and students.

2.6.4 What are the measures/initiatives taken up by the institution to enhance the social and economic relevance (student placements, entrepreneurship, innovation and research aptitude developed among students etc.) of the courses offered?

- Students are trained in communication skills, aptitude and soft skills
- Seminars are conducted right from first year onwards where students are encouraged to present their ideas and improve their communication
- Students are sponsored to conduct national level technical symposiums. Every department conducts one every year. This helps to develop technical aptitude and organisational abilities.
- Students are encouraged to apply for internal funding for innovative ideas and projects. This helps building their research aptitude. Students publish in international refereed journals with the help of their faculty members.
- Spirit of entrepreneurship is inculcated among the students by the Entrepreneurship Development Cell (EDC). The EDC organises events and talks by eminent entrepreneurs.
- Students participate in projects of social relevance through the Youth Red Cross and Rotaract Clubs. Students take up projects such as teaching underprivileged children in rural areas, awareness campaigns etc.

2.6.5 How does the institution collect and analyse data on student performance and learning outcomes and use it for planning and overcoming barriers of learning?

The data is collected from the entire faculty at the department level. The head of the department and his office is responsible for collecting all the data from the faculty, monitoring it and disseminating the relevant data for feedback to the students, faculty and parents.

A hard copy sheet is maintained for all the courses which comprises of various parameters and the values achieved corresponding to them. This is signed by the faculty and HoD concerned, and shared periodically with parents. The whole process is reviewed department wise fortnightly by the Principal and the corrective steps taken, if required.

2.6.6 Monitoring the learning outcome

The second and third class committee meetings, invariably analyse and discuss the performance of the students in the corresponding cycle tests. The students are explained the pitfalls and deficiencies so that they can fare well in the end semester examinations.

After the end semester examination results, the Principal convenes a meeting of teachers and discusses with them, if there is any drastically low pass

percentage. The teachers give their explanations, such as lengthy questions, out of the syllabus questions, ambiguous questions and the like. Principal in turn makes suitable suggestions like (a) the teachers can make representation to the University immediately after the examination in a particular course that had low pass percentage so that remedial measures can be taken immediately and (b) suggest ways and means so that they do not recur.

CRITERION III: RESEARCH, CONSULTANCY AND EXTENSION

3.1 Promotion of Research

3.1.1 University recognized Research Centres

The Anna University, after due verification of the qualifications and research potential of the Faculty, their publications in journals of repute, Conferences conducted, Funded Projects and patents earned by them etc. have recognized the said departments as Research Centres of Anna University for doing independent research leading to M.S or Ph.D. degrees. Thus, the Departments of Mathematics, Physics, Chemistry, Electrical & Electronics Engineering, Electronics & Communications Engineering, Computer Science & Engineering, Information Technology, Chemical Engineering, Biomedical Engineering and Mechanical Engineering have been recognized as Research Centres of Anna University.

3.1.2 Research Advisory Council (RAC)

After achieving reputation as an excellent academic institute, there has been a paradigm shift to achieve excellence in research. To advise the faculty on the nascent fields of research and also the modern methodologies in current research etc a Research Advisory Council has been established. The composition of the current RAC is given below:

- | | |
|---|-------------------|
| 1. Dr. Shiv Nadar, Chairman, HCL Technologies Ltd. | Chairman |
| 2. Dr. Raj Reddy, Professor of Computer Science & Robotics
Carnegie Mellon University, USA | Member |
| 3. Dr. N. Balakrishnan, Associate Director, IISc, Bangalore | Member |
| 4. Dr. R. Natarajan, Former Chairman, AICTE, New Delhi | Member |
| 5. Dr. Damodar Acharya, Director, IIT Kharagpur | Member |
| 6. Ms. Kala Vijakumar, President, SSN Institutions | Member |
| 7. Dr. S. Salivahanan, Principal, SSN College of Engg. | Member |
| 8. Dr. S.V. Albal, Professor, SSN College of Engg. | Member |
| 9. Dr. P. Ramasamy, Dean (Research), SSN College of Engg. | Member- Secretary |

The RAC meets once in a semester, and reviews the research activities and Research projects obtained by the faculty and students. In addition, it provides advice about the newer avenues of research.

3.1.3 What are the measures taken by the institution to facilitate smooth progress and implementation of research schemes/ projects?

Once the project is sanctioned and the first installment of the funding is received the investigator is requested to give the periodicity at which he/she will need the funds to proceed with his project. The investigator is free to spend the amount within the conditions stipulated by the awarding agency and the college does not interfere in the spending. He/she is free to use the facilities available in the campus without any restriction. If the project is part of a doctoral programme, or warranting his time during working hours, some leeway can always be given in the scheduled workload. Library can be freely used by the investigator as frequently as needed. Also he can make use of the finance department for timely submission of periodic reports as well as submitting accounts without delay.

Promotion of faculty participation by internal funding (Sample only)

Department of Mechanical Engineering

Sl. No.	Name of the Faculty	Year	Title of the Project	Amount sanctioned in Rs. Lakh
1	R. Damodaram	2014-2016	Investigations of the stress corrosion cracking studies of friction stir processed Nickel Aluminium Bronze	4
2	D. Anatha – padmanaban	2014-2016	Assessment of intergranular corrosion resistance of friction stir and gas tungsten arc welded 316 LN Austenitic stainless steel	2
3	M. Dhananchezian	2014-2016	Investigation of machinability and functional characteristics of Nickel based alloys under cryogenic cooling	4.5
4	G. Satheesh Kumar	2014-2016	Design, Development and implementation of Robots for Scavenging Applications	2.6
5	S. Somasundaram	2015-2017	Determination and attenuation of noise generated from sunroof of automobile	2
6	S. Suresh Kumar	2015-2017	Investigation on the influence of weld residual stress and material defects on ballistic resistance of straight and curved target	4.25
7	K.Subbaiah	2015-2017	Evaluation of microstructure and mechanical properties of tungsten	2

			inert gas welding on AA5083 with Sc and Er Containing Fillers	
Total				21.35

Department of Civil Engineering

Sl. No	Investigators	Project Title	Funding Agency	Amount		Date of Approval	Status
				Sanctioned	Received		
1.	Dr. Mohammed Haneefa & Dr. S. Ramana gopal	The use of Alternative Cementitious Materials for Sustainable concrete – Development of Geo polymer concrete using Fly Ash Slag and Sugarcane Bagasse	SSN Trust	Rs 5.5 Lakh	Rs 2.44 Lakh	16-10-14	On going
2	Dr. B. Mahalingam	A Study of Self Compacting Concrete Using Alternative Cementitious Materials	SSN Trust	Rs 2.25 Lakh	Rs 1.46 Lakh	16-10-14	On going
3	Dr.R.Vijayalakshmi & Mrs.P. Sangeetha	Study on the behaviour of concrete filled Stub columns under compression	SSN Trust	Rs 2.2 Lakh	-	30-09-15	On going

3.1.4 What are the efforts made by the institution in developing scientific temper and research culture and aptitude among students?

Participation of students in Research

The University by statute requires the PG students to submit at least one research publication in a refereed journal, before earning the degree. However the institute encourages research by even UG students. The second year students, evincing interest in research, are tagged with a Ph.D. scholar, helping the scholar in copying and arranging the research papers identified by the scholar, in a chronological order, fabricating the equipment as directed, making electronic circuits etc. under directions from the scholar. Further, if the UG student publishes a paper in journals of repute, a cash incentive is provided to encourage him. In addition, it encourages them to earn their project funded by the Tamil Nadu State Council for Science and Technology, even if the amount is meager. If a student presents a paper in an International conference, the Registration Charge is reimbursed, depending on the merits of the case. When duly recommended by the HoD, some internal funding is also given to certain

projects proposed by them. The internal funding given to students during 2016-17 to nurture their research potential is given below department wise:

Internal Funded Projects by Students

Dept.	S. No	Name of the students & Year	Faculty In-charge (s)	Title of the Project	Amount (Rs.)
EEE - B.E. Students	1	A. Pommanna Giri (III-Year)	Dr. V. Kamaraj	Automated drip irrigation system	22,000
		M. Karthik (III-Year)			
	2	R Aravind Kumar (III-Year)	Dr. Ranganath Muthu	Three dimensional image capturing for navigation of mobile robot	25,000
		A. Kapildev Kumar (III-Year)			
		R. Rahul (IV-Year)			
		P. Sivaraman (IV-Year)			
	3	G. Anish Kumar (III-Year)	Dr. Ranganath Muthu	Development and testing of sliding mode controller for robotic manipulation	25,000
		Naveen Venugopalan (III -Year)			
		C. Ramaseshan (IV-Year)			
		C. Anirudh (III-Year)			
	4	V. Aishwarya (III Year)	Dr. R. Seyezhai	Design and implementation of on board battery charger for plug-in hybrid vehicles	25,000
		C. Kavitha (III Year)			
		R. Kaviya (III Year)			
	5	D. Kavim (III-Year)	Dr. R. Ramaprabha	Embedded switched Z-source inverter for photovoltaic application	20,000
		B. Arun Prasaath (III-Year)			
		K. Agil (III-Year)			
	6	M.S. Aswini (II-Year)	Dr. U. Shajith Ali	Smart spot specific tripping system (The Smart Sneaker)	10,000
		H. Akshay Kumar (II-Year)			
		K. Logaanand (II-Year)			
	7	L. Vignesh (II-Year)	Dr. U. Shajith Ali	Autonomous Self-Navigated robot (Self-Driving Car)	4,000
		Jyothin Aditya (II-Year)			
	8	B.V. Arjun (III-Year)	Dr. M. Balaji	A method to mitigate accidents by sensing heart beat rate of a person	14,000
		B. Mirudhulla (III-Year)			
		D. Nijandhan (III-Year)			
		R.S. Pavethra (III-Year)			
	9	Anirudh S Suresh (II-Year)	Mr. P. Saravanan	Low cost and compact Automated Electrostatic Precipitator for small scale Industries	25,000
		H. Gokul (II-Year)			
		A. Swetha (II-Year)			

	10	S.V. Kanna (II-Year)	Mr. M. Senthil Kumaran	Comprehensive study of control strategies for inverted pendulum on a cart	25,000
		Srinath Saranu (II-Year)			
		P.V. Srihari (IV-Year)			
	11	Anirudh V Sridharan (III-Year)	Mr. M. Pandikumar	Home security system	13,000
		Y Nirmal Nathan (III-Year)			
		A S Ajithkumaar (III-Year)			
	12	R. Rahul (III-Year)	Mr. V.S. Nagarajan	Demagnetization analysis of interior permanent magnet motor	22,000
		B. Shiva Shankar (III-Year)			
		M. Karthik (III-Year)			
	13	V.K. Meenaapriya (II-Year)	Ms. D. Umarani	Multipurpose mini solar charging station using hybrid pulse width modulated Z source inverter	22,000
		S. Nandhini Priya (II-Year)			
		S.T. Pavithra (II-Year)			
	14	N. Ajith Balaji (IV-Year)	Mr. V.S. Nagarajan	Comparison of Performance of PM Assisted synchronous motor with conventional motor drives	25,000
		R. Gayathri (IV-Year)			
		R. Mano Venkatesh (IV-Year)			
		S. Sivaramakrishnan (III-Year)			
	15	S. Priyadarshini (III-Year)	Ms. S. Malathy	Curve tracer for photovoltaic panels using weighted resistive network	15,000
		K S Swaathishree (III-Year)			
		S. Swathi (III-Year)			
	16	K.A. Akash (III-Year)	Dr. Mrunal Deshpande	Analysis and design of soft-Switching converter for switched Reluctance motor drive	10,000
		T. Aravinthraj (III-Year)			
		S.R. Dharshini (III-Year)			
	17	R. Sathish Kumar (IV-Year)	Mr. V. Thiagarajan	Intelligent energy conservation solar inverter (sine wave)	30,000
		T. Tamilnilavan (IV-Year)			
		Sai Srujan Palakurthy (IV-Year)			
		Gokul Raj (II-Year)			
	18	K. Dhivakar (II-Year)	Mr. V. Thiagarajan	H6-type transformer less single-phase inverter for grid-	22,000
		A. Karthik (II-Year)			

EEE - M.E. Students				ted photovoltaic system	
	19	R. Lakshmi Narasimhan (IV-Year)	Dr. V. Rajini	Design of double input DC-DC converters using the building block methodology	22,000
		M.G. Aiswarya (IV-Year)			
		Ashwin K Eshwar (IV-Year)			
		R. Rohit (III-Year)			
	20	Anuj Kumar (IV-Year)	Dr. R. Seyezhai	High performance interleaved boost converter for solar LED street lighting applications	20,000
		R Aravinth (IV-Year))			
		A Arun Kumar (IV-Year)			
		V. Kavicharkravarthi (IV-Year)			
	21	T. Sudharsan (II-Year)	Dr. R. Deepalaxmi	Modelling and Implementation of impulse current measurement circuit	18,000
		D. Janani (IV-Year)			
		B. Kaviya (IV-Year)			
		S. Aishwarya (III-Year)			
		S.Dharshini Bala (III-Year)			
	22	R. Kavitha (II-Year)	Dr. V. Rajini	High setup-up interleaved converter with built-in transformer voltage multiplier cells for sustainable energy application	25,000
	23	S. Bavani (II-Year)	Dr. M. Balaji	Design and Implementation of Fault Tolerant Converter Topology for switched reluctance motor Drive	20,000
	24	M. Kanimozhi (II-Year)	Dr. R. Ramaprabha	Investigation on Performance of modified reduced switches 11 level inverter for standalone Photovoltaic system	20,000
	25	S. Harika (II-Year)	Dr. R. Seyezhai	Investigation of Interleaved voltage source inverter for Photovoltaic Application	20,000
	26	R. Mahalakshmi (II-Year)	Dr. R. Seyezhai	Design and implementation of a	15,000

				fuel-cell based backup system using integrated boost converter for telecoms	
	27	M. Mohana Krishnan (II-Year)	Dr. R. Ramaprabha	Controller implementation of single phase photovoltaic inverter for grid connected system	20,000
	28	V.K. Vishwhak (II-Year)	Dr. R. Seyezhai	Solar powered electric trolley using BLDC drive	25,000
	29	S. Joselin Jebamalar (II-Year)	Dr. V. Rajini	Design and implementation of a non-isolated multi input converter for hybrid electric vehicles	20,000
ECE - B.E. Students	30	N. Bharath Raj (II-Year)	Dr. S. Radha	Study on the feasibility of energy generation from piezoelectric plates fitted on the car tyres	20,000
		S. Brathindara (II-Year)			
		R. Kashyap (II-Year)			
	31	Sai M Anjesh (II-Year)	Dr. B. S. Sreeja	DroNet	18,000
		A.S. Shaahank			
		Karrthikeyaa (II-Year)			
		Thevin Arokiaraj (II-Year)			
		T. Ranjeet Kumar (II-Year)			
	32	Akilesh Venkatasubramanian (III-Year)	Dr. R. Jayaparvathy	Flexible body vitals monitoring patch for athletes	18,000
		N. Elakhya (III-Year)			
		V. Krithika (III-Year)			
	33	Jayavanta Shakthi Poorna (III-Year)	Dr. R. Jayaparvathy	Fuel level detector for consumer protection in vehicles	10,000
	34	R. Shrivatsan (IV- Year)	Dr. A. Jawahar	Implementation of a mobile wireless sensor network using small differential drive robotic nodes	18,000
		Nandagopal Srinivasan (IV Year)			
		K. Akash (III-Year)			

	35	A. Kishore (II-Year)	Dr. Esther Florence	Smart traffic signals	25,000
		M. Sindhu (II-Year)			
		L. Barath (II-Year)			
		S. Amirthavarshini (II-Year)			
	36	S. Indulakshmi (III-Year)	Dr. Esther Florence	Flexible cardiac sensor development	20,000
	37	G. Hemanth (II-Year)	Mr. W. Jino Hans	Smart display system using IOT	10,000
		Ajay Nair (II-Year)			
		K. Harish Kumar (II-Year)			
		V.M. Kumar (II-Year)			
	38	S.S. Ramachandran (II-Year)	Dr. B. S. Sreeja	Smart garbage management	25,000
		S. Promodram (II-Year)			
		J. Rishi Ganesh (II-Year)			
	39	B. Varshini (III-Year)	Dr. R. Amutha	Medication intake adherence with real time activity recognition on IOT	15,000
		L. Saranya (III-Year)			
		D. Priyadharshini (III-Year)			
	40	S. Dyaneshwar (III-Year)	Dr. K. Muthumeenakshi	A startup for a smart workplace	15,000
		G. Jaiyashri (III-Year)			
		K. Monica (III-Year)			
	41	Gunupati Sumadhura (II-Year)	Dr. K. Muthumeenakshi	Vehicle Speed Controller	16,000
		S. Harini (II-Year)			
		N. Mahalakshmi (II-Year)			
	42	A. Rekha (III-Year)	Dr. N. Venkateswaran	Agricultural soil analysis using image processing	22,000
		Sowmya Bhatraju (III-Year)			
		S. Srivaishnavi (III-Year)			
	43	K. Arun (III-Year)	Dr. M. Anbu Selvi	Four quadrant speed control of robotic vehicle using ARM Cortex processor	10,000
		J. Allen Fernando (III-Year)			
		J.C. Anandha Padmanaban (III-Year)			
		V. Avinash Venkatachalam (III-Year)			
	44	Prithviraj Prabhu (IV-Year)	Dr. M. Anbu Selvi	Emulation of a quantum computer using classical analog electronic circuits	8,000
		Rishab Venkataraman (IV-Year)			
		Preetha Ganesh (CSE III-Year)			
	45	A. Divya Sanchana	Mr. W. Jino	E-Bin	20,000

CE - M.E. Students		(II-Year)	Hans		
		Nishita Maria Govias (II-Year)			
		V. Rakesh (II-Year)			
		S. Rakshana (II-Year)			
	46	Aadesh Samdaria (II-Year)	Mr. C. Annadurai	Robotic floor map	15,000
		K. Raeshak (II-Year)			
		Pramodh Kumar (II-Year)			
	47	Nishanth Vimalash (III-Year)	Dr. M. Gulam Nabi Alsath	Intelligent and interactive road safety system for young bikers	25,000
	48	R. Poorani (III-Year)	Dr. S. Joseph Gladwin	Wrap the scrap	25,000
		G. Pradeep (III-Year)	Dr. R. Rajavel		
	49	C. Akshay Kumar (II-Year)	Dr. K.J. Jegadish Kumar	Smart Seat Belts	16,000
		M. Nagulan (II-Year)			
		J. Shaktivelu (II-Year)			
		S. Udaya Ezhil (II-Year)			
	50	K.M. Shreemathi (II-Year)	Dr. S. Radha	Design and development of PDMS membrane for bio applications	25,000
	51	R. Kiruthika (II-Year)	Mrs. S. Kirubaveni	Reduction of screening effect on ZnO nanostructure based nanogenerator with self powered gas sensor	22,000
			Dr.M.Senthil Pandian		
	52	G. Roshini Singh (II-Year)	Ms. S. Kirubaveni Dr.K.Aravinth	Wideband piezoelectric vibration energy harvester	18,000
	53	D. Harshita (II-Year)	Dr. S. Sakthivel Murugan	Design and development of insulation tester for array hydrophone	18,000
	54	R. Devi (II-Year)	Dr. R. Hemalatha	Efficient decision support system for agriculture using ARM processor	20,000
	55	B. Dhivya Mullai (II-Year)	Mr. S. Ramprabhu	Reduction of vampire power by smart power socket	8,000

CSE - B.E. Students	56	Ramya Priyadarshini (III-Year)	Dr. Chitra Babu	Kernel optimization on raspberry Pi3	10,000
		P. Satheesh (III-Year)	Mr. H. Shahul Hamead		
		Simran Modi (III-Year)			
	57	Skanda Suresh (II-Year)	Dr. B. Bharathi	Multi-level Smart Parking System	15,000
		Nirupan Ananthamurugan (II-Year)	Dr. P. Mirunalini		
		Shreyas Gopal (II-Year)			
	58	S. Gajesh (II-Year)	Dr. D. Thenmozhi	The robotic ARM manipulation	18,000
		Daniel Jeswin Nallathambi (II-Year)			
		S. Arul Thileeban (II-Year)			
	59	C.T.Muthu Annamalai (III-Year)	Ms. B. Prabavathy	A multilevel secure banking application for visually impaired	18,000
			Dr. D. Thenmozhi		
		C. Manish Chandra (III-Year)			
		N. Nachiappan (III-Year)			
	60	R. Vivek Narayanan (II-Year)	Mrs. S. Angel Deborah	High speed package delivery bot	15,000
			Mr. K. R. Sarath Chandran		
		S. Venkatesh (II-Year)	Dr. P. Mirunalini		
		S. Aakash (II-Year)			
	61	V. Shanmuga Velayutham (III-Year)	Mrs. S. Angel Deborah	Travel guide application using augmented reality	6,000
			Mr. K. R. Sarath Chandran		
		S. Shailesh (III-Year)			
		B.Skandharuban (III-Year)			
	62	S.N.Sivagami (III-Year)	Ms. S. Angel Deborah	AIR quality detection and intelligent route suggestion using IoT and data analytics	24,000
		B.Sounderyan (III-Year)	Ms. S. Rajalakshmi		
		R.Sricharan (III-Year)			
		V.Sreenidhi (III-Year)			
		K.R.Uttam Raj (III-Year)			
	63	S. Kaushik Narayanan	Mr. K. R.	Drowsy driver	12,000

IT - B.E. Students		(III-Year)	Sarath	detection with alert	
		K. Saket Ram (III-Year)	Chandran	system	
	64	G. B. Krishnap Priya (III-Year)	Dr. R. S. Milton	RFID based traffic violation detection and traffic flow prediction system (TVDTPS)	18,000
			Ms. S. Angel Deborah		
		M. Vrithika (III-Year)	Ms. S. Rajalakshmi		
		S. Thirumla Devi (III-Year)	Ms. M. Saritha		
	65	B. Nithish (II-Year)	Dr. D. Thenmozhi	Smart metro water transportation	10,000
		Sidharth Divi (II-Year)	Ms. B. Prabavathy		
		R.K. Tarun (II-Year)			
	66	A. Gautham (III-Year)	Mrs. S. Angel Deborah	Automated applications for energy conservation by reducing vampire energy	22,000
		J. Adithya (III-Year)	Mr. K. R. Sarath Chandran		
		R. Ramya (III-Year)			
		Rhea Marian (III-Year)			
	67	Rithwin Siva (III-Year)	Ms. A. Beulah	Braille Interpretation Pad	22,000
		Nishant Mathew (III-Year)	Ms. S. Rajalakshmi		
			Ms. S. Angel Deborah		
		R. Nidhi Bhandari (II-Year)			
		Varsha Bhargavi			
		Dwarakanathan (II-Year)			
	68	S. Mohan Sha (IV-Year)	Dr. V. S. Felix Enigo	Smart Mirror: To maximize productivity and time management	22,000
		S. Nikhil (IV-Year)			
K.R. Nitin (IV-Year)					
S. Aravind (III-Year)					
69	S. Gowtham (III-A)	Ms. S. V. Jansi Rani	Wild Animal Intrusion detection from Forest into residential area using sensor platform	25,000	
	U. Jagan Kumar (III-A)	Ms. R. Priyadharsini			
	U. Karthik (III-A)				
70	S. Murugappan (II-Year)	Dr. R. Srinivasan	Automated restroom smell alert system	25,000	
		Dr. T. Sree Sharmila			
71	Nikitha Vignesh Kumar (II-Year)	Dr. T. Sree Sharmila	Mobile attendance system	12,000	
	S. Neharika (II-Year)				
72	V. Sangavi (III-Year)	Dr. S.	Predpatrol-	16,000	

		P.M. Sashaank (III-Year)	Karthika	predictive patrolling	
		B. Rushvanth (III-Year)			
		V. Yaadesh Kumaar (III-Year)			
73		V. Neeraj Roop (III-Year)	Dr. N. Bhalaji	Optimizing the frequency of buses –maximum flow graph	5000
		D. Prathana (III-Year)			
		Reshmitha Rajasekar (III-Year)			
		R. Revathy (III-Year)			
74		T. Dhanush (III-Year)	Dr. N. Bhalaji	Smart rooms	16,000
		B. Aswin Ramnath (III-Year)			
		M. Krishnakanth (III-Year)			
75		Jeyaram Hariharakrishnan (II-Year)	Dr. N. Bhalaji	Smarter keyboard – supplementary security tool	15,000
			Mr. V. Sivamurugan		
76		K. Aashika (III-Year)	Dr. G. Muneeswari	Hydro-Spark (Flood level and Flood water electric discharge warning system)	12,000
		P.C. Abilashkumar (III-Year)	Mr. I. Joe Louis Paul		
		S. Aboorva (III-Year)			
		K.S. Hariharasudan (III-Year)			
77		M.S. Vignesh (II-Year)	Mr. I. Joe Louis Paul	Spotting a person within a given range	10,000
78		L. Akhil Venkateswaran (III-Year)	Mr. I. Joe Louis Paul	Stalker Detector	15,000
		P. Gautham Ram (III-Year)	Dr. G. Muneeswari		
		T. Jerold Jacob (III-Year)	Dr. N. Bhalaji		
		M. Karthik (III-Year)			
79		K. M. Likesh Krishna (III-Year)		School student attention monitoring system	13,000
		A.N. Arunakumari (III-Year)			
		Gaddam Mounica (III-Year)			
		Konduri Saisree (III-Year)			
80		S. Swarnalatha (II-Year)	Dr. S. Poornima	Student out pass generator –An application for hostel students	10,000
		R.S. Shrikanth (II-Year)	Dr. N. Sripriya		
		I. Kesavarthini (II-Year)			
81		C. Jayashree (IV-Year)	Mr. I. Joe	Smart eye for the	14,000

			Louis Paul	visually impaired	
		K. Monika (IV-Year)	Mrs. S. Sasirekha		
		P. Moohana Priya (IV-Year)			
		G. Gayathri (III-Year)			
	82	J. Chandramowli (II-Year)	Mr. I. Joe Louis Paul	An online programming judge	8,000
			Dr. G. Muneeswari		
		Aadhithya Dinesh (II-Year)			
	83	K. Harini Priya (II-Year)	Mr. R. Vinob Chander	Security enhancement at hostel gate by face detection	8,000
		R. Lalithalakshmi (II-Year)			
	84	Adeeb Tahir (II-Year)	Mrs. S. Sasirekha	Quick Basket	8,000
		Adithya Ganesh (II-Year)			
	85	L. Akshay Karthik (III-Year)	Dr. S. Chithra	Overhead tank water level monitoring system	13,000
		Ebenezer Ajay Williams (III-Year)			
		N. Gareshma (III-Year)			
		R. Harini (III-Year)			
Chemical - B.Tech. Students	86	Sainiwetha Saikrishnan (III-Year)	Dr. R. Parthiban	Novel method for the synthesis of silver nanocoolant and its application on heat removal in personal computer	25,000
		N. Solai (III-Year)	Ms. B. Chitra		
	87	M. Amruth Varshinee (III-Year)	Dr. D. Gnana Prakash	Growth of Zinc oxide nanostructures using nano sphere lithography for photovoltaic applications	25,000
		P. Hema (III-Year)	Mr. C. Balaji		
	88	S. Abinaya (III-Year)	Dr. D. Gnana Prakash	Biodegradation of petroleum oil sludge using microbial consortium	22,000
		K.B. Saravana Priya (III-Year)			
		Shriya Sankara Subramanian (III-Year)			
	89	R. Muruganandh (III-Year)	Dr. D. Balaji	Lactic acid production from papersludge by simultaneous saccharification and fermentation Rhizopus sp.	22,000
		M. Prasanth (III-Year)			
		A. Ram Prasanth (III-Year)			

	90	Prithvinath P. Kamath (II-Year)	Dr. K. P. Gopinath	Synthesis of organic multi-purpose cleaning solution	22,000
		V. Priyadarshini (II-Year)			
		P. Varshini (II-Year)			
	91	B. Babu (III-Year)	Dr. K. P. Gopinath	Solar Reactor	25,000
		T. Lionell Sibi (III-Year)	Dr. N. Nallusamy		
		N.T. Manohar (III-Year)			
	92	V. Samynaathan (II-Year)	Dr. K. Sathish Kumar	Synthesis of nanostructured activated carbon from lignocellulosic waste for electric double layer capacitor	22,000
			Dr. Siluvai Michael		
		R. Sangeetha Iyer (II-Year)			
	93	B. Neeraja (III-Year)	Dr. K. Sathish Kumar	Study on photodegradation of Methylene blue dye using Dysprosium oxide/ Bismuth oxide photocatalyst	18,000
		Shriya Kumar (III-Year)			
	94	D. Naveen Krishna (III-Year)	Dr. N. P. Rajesh	Investigations on preparation and characterization of lead based piezoelectric ceramics for sensor applications	25,000
			Dr. R. Parthiban		
		K. Surya Prakash (III-Year)			
	95	Nivetha Thyagarajan (II-Year)	Dr. D. Gnana Prakash	Synthesis and characterization of Silver nanowires for TCE application in Silicon Thin Film Solar Cells	25,000
			Dr. P. Balaji Bhargav		
		R. Racchana (II-Year)			
	96	B. Shivani (III-Year)	Dr. D. Gnana Prakash	Bio-remediation of pharmaceutical waste water by microbial consortium	22,000
		J. Shanmukapriya (III-Year)			
	97	K. Lavanya (III-Year)	Dr. D. Balaji	Fermentative production of itaconic acid by USTILAGO MAYDIS from biomass waste raw material	22,000
		V. Preetha (III-Year)			
		Sharon Malusha Wilson (III-Year)			
	98	Manasa Sadhasivan (II-Year)	Dr. K. P. Gopinath	Microbial production of vanillin from ferulic acid	23,000
		N. Mayuri (II-Year)			

	99	R. Ananya (III-Year)	Dr. K. P. Gopinath	Waste water treatment by adsorption using cotton seeds and hydrothermal catalytic liquefaction of spent adsorbent	25,000
		Akshaya S Nair (III-Year)	Dr. P. Senthil Kumar		
	100	Keshav V Kumar (III-Year)	Dr. P. Senthil Kumar	Purification Treatement of dyes wastewater with a novel microelectrolysis reactor	25,000
		C.G. Vignesh (III-Year)			
		R. Kishore Kumar (III-Year)			
	101	V. Neelasaraswathi (III-Year)	Dr. B. Ambedkar	Ultrasound Assisted Coal Dealkalization	22,000
		M.A. Ramya (III-Year)			
	102	S. Athreya (IV-Year)	Dr. K. Jagannathan	Kinetics and optimization of the biodegradation of mixture of Azo dyes using continuous packed bed biofilm reactor	22,000
		K. Anthony Arvind (IV-Year)			
		G. Sudharsan (II-Year)			
	103	C. Harish (II-Year)	Dr. P. Senthil Kumar	Carbon capture using solid adsorbent zeolite 5A and efficient disposal of captured carbon dioxide	25,000
		A. Adithya Joseph (II-Year)			
		Anirudh (II-Year)			
		N. Shruthi (II-Year)			
	104	Kasi Muthu (III-Year)	Dr. V. Jaikumar	Polyhydroxyalkanoates (PHAs) production from dairy waste's by mixed microbial culture.	22,000
		G. Parasuraman (III-Year)			
Mechanical - B.E. Students	105	R. Senthil Kumar (III-Year)	Dr. V.E. Annamalai	Development of a low temperature vitrified bond for grinding wheels using flyash	16,000
		M. Eashwar Anandh (III-Year)			
	106	S. Adithyun (III-Year)	Dr. V.E. Annamalai	Development of a method to identify when to dress a grinding wheel	20,000
		S. Anand (III-Year)			
		P. Aravinth (III-Year)			
	107	N. Gurunathan (III-Year)	Dr. V.E. Annamalai	Impact of work rest blade design on centerless grinding performance	22,000
		Kanduri Venkata Srikar (III-Year)			

	108	C. G. Subramaniam (II-Year)	Dr. V.E. Annamalai	Impact of metal oxide additives on the rheology of bio diesel	22,000
	109	Srikrishna Srinivasan (III-Year)	Dr. N. Nallusamy	Experimental investigation on heat transfer enhancement of latent heat storage system containing spherical capsules with internal hollow and solid fins	25,000
		K. Srivathsan (III-Year)			
		P. G. Sylesh Kumar (III-Year)			
		S. Vassante Kumar (III-Year)			
		M. Praveen (III-Year)			
	110	S. Saravana Kumar (III-Year)	Dr. K.S. Vijay Sekar	Development of a fire extinguishing STOVL	25,000
		S. Vishnu Sankar (III-Year)			
	111	G. Sailalitha (III-Year)	Dr. G. Satheesh Kumar	Design, development and mathematical modeling of finger-like shape memory spring system for prosthetics	25,000
		D. Vishal (II-Year)			
	112	S. Siddharth Krishna (II-Year)	Dr. G. Satheesh Kumar	All terrain semi-automatic cleaning rover	25,000
		R. Suraj (II-Year)			
		S. Murugappan (II-Year)			
	113	R. Ashwin (III-Year)	Dr. K.L. Harikrishna	Design and development of bomb defusal robotic arm coupled with drone	22,000
		V. Harish Narayanan (III-Year)			
		T. Manoj Kumar (III-Year)			
		K. S. Manoranjan (III-Year)			
	114	Srivarshith Viriyala (II-Year)	Dr. Siluvai Michael	Working of an E-Bike on lithium ion batteries coupled with super capacitor	22,000
		Yashaswin Harathi (II-Year)	Dr. R. Prakash		
	115	Shyam Raman (III-Year)	Mr. R. Vimal Sam Singh	Fabrication of polymer based flexible substrate for industrial and biomedical applications	25,000
	116	Neil Ashwin Raj (II-Year)	Mr. C. Arun Prakash	Design and fabrication of spherical robots	25,000
		B. Vishal (II-Year)			

				using gyroscopes	
	117	Nitin Joy (II-Year)	Mr. C. Arun Prakash	Vertical axis wind turbine for highways	25,000
		R. Subramanian (II-Year)			
	118	K. Vetri Selvan (III-Year)	Dr. S.R. Koteswara Rao	Roll cladding of AA5083 over DMR 249 – Micro alloyed steel	25,000
		S. Vijay (III-Year)			
	119	G. Sachin (III-Year)	Dr. S. Suresh Kumar	Experimental ballistic performance determination of aluminium-poly carbonate sandwich plates	24,000
		S. Nishanth (III-Year)			
	120	M. Prashant (III-Year)	Dr. A.K. Lakshminarayanan	Crashworthiness study on friction stir welded DP980 steel top hat sections	25,000
		E. Sabarish (III-Year)			
	121	C. T. Alagappan (II-Year)	Dr. K.L. Harikrishna	Design and development of autonomous hexapod for inaccessible environment	22,000
		Vashist Valsaraj (II-Year)			
	122	Arul Noble Jose Rohan (III-Year)	Mr. D. Ebenezer	Design and construction of automated fender/cowcatcher for trucks	25,000
		R. Hari Hara Sudhan (III-Year)			
		M. Durga (III-Year)			
		K. Vijayalakshmi (ECE) (III-Year)			
	123	T.S. Murali (II Year)	Dr. P. Rajesh	Study of electrochemical properties of tungsten doping in vanadium oxide to enhance the efficiency of lithium ion batteries at various temperatures	25,000
	124	K. Deebak (II-Year)	Dr. K. Rajkumar	Experimental fabrication and investigations of magnesium-calcium carbonate composite in simulated body	25,000
		S. Manoj (II-Year)			
		G.Namratha (II-Year)			

				fluids	
Mechanical - M.E. Students	125	Jithin Jacob John (II-Year)	Dr. S.R. Koteswara Rao	Joining of Aluminium 7075 and Magnesium ZM 21 using diffusion Bonding	20,000
	126	G. Jeyavel (II-Year)	Dr. K.L. Harikrishna Dr. A. K. Lakshmi Narayanan	Comparative studies on cold metal transfer and friction stir cladding of copper and stainless steel	22,000
	127	K. Rajesh (II-Year)	Dr. S. Suresh Kumar	Experimental ballistic studies on CNT-Glare fiber metal laminates for aerospace applications	25,000
	128	S.P. Raghavan (II-Year)	Dr. K. Rajkumar	Investigation on surface textured cutting tool for sustainable machining of Ti-Alloys	25,000
	129	S. Arputharaj (II-Year)	Dr.R. Damodaram	Plasma arc welding of DMR-249A Steel: Mechanical, microstructural and corrosion aspects	22,000
	130	S. Gokul (II-Year)	Dr. A.K. Lakshmi Narayanan	Dissimilar Friction stir welding of 409M-304 grade stainless steels for rail coach applications	25,000
Civil - B.E. Students	131	V. Gokul (II-Year)	Dr. S. Ramanagopal	Comparative Study On The Performance of Self Compacting Concrete Replaced With Various Mineral Admixtures	22,000
		J. Mohamed Kamal (II-Year)	Dr. R. Vijayalakshmi		
		V. B. Shalini (II-Year)			
		Sangeetha Menon (II-Year)			
	132	C. Acash (II-Year)	Dr. Y. K. Sabapathy	Flexural Strength Of Concrete Beams Reinforced With Short Rigid Glass Fibres	18,000
		R. M. Manimanickam (II-Year)			
		K. P. Priyadharshini (II-Year)			

	133	V. Srilekha (II-Year)	Dr. Y. K. Sabapathy	Experimental Study On Strength Properties Of Concrete Reinforced With Scrap Copper Fibres	20,000
		V. Jawahar (II-Year)			
		N. Raghavi (II-Year)			
		K. Vaishnavi (II-Year)			
	134	R. Balamurukan (II-Year)	Dr. S. V. Sivapriya	Effect of Eccentricity in Laterally Loaded Pile Kept in The Slope	22,000
		A. Jai Vigneshwar (II-Year)			
		N. Prathibha Devi (II-Year)			
		A. Shrinidhi (II-Year)			
	135	A. Poonguzhali (II-Year)	Dr. Srinath Rajagopalan	Assessment of Toxicity Factor of Various Industrial Domestic Waste Water Effluents to Zebrafish (Danio Rerio)	22,000
		P. Ravi Kumar (II-Year)			
		S. Surya Prakash (II-Year)			
	136	V. R. Rakesh Raj (II-Year)	Dr. R. Rajkumar	Experimental Study on the Behaviour of Beam Column joints With Welded Wire Mesh	22,000
		S. Rakesh (II-Year)			
		A. S. Annal (II-Year)			
	137	R. Amirtha (III-Year)	Dr. Y. K. Sabapathy	Partial Replacement of Natural Aggregate By EOF Steel Slag in Manufacturing of Stabilised Unfired Clay Bricks	18,000
		Dharshana Rajasekar (III-Year)			
		Jemshia S Canis (III-Year)			
		B. S. Vignesh (III-Year)			
		M. V. Yokesh (III-Year)			
	138	K. Abinaya (III-Year)	Dr. Y.K. Sabapathy	Partial Replacement Of Natural Aggregates By EOF Steel Slag in Manufacturing Of Hollow Blocks	15,000
		D. Dharshika (III-Year)			
		Y. Harika (III-Year)			
		D. Mahesh (III-Year)			
		B. Pown Krishnan (III-Year)			
	139	J. Gokul Krishna (I-Year)	Dr. Y. K. Sabapathy	The Influence Of Bone Shaped Aluminium Fibres In Strength Properties Of Concrete	18,000
		S. M. Ramasamy (I-Year)			
		D. Sabarish (I-Year)			
		C.N.A. Nitish (I-Year)			
	140	S. Vishnu Vardhan (I-Year)	Dr. Y. K. Sabapathy	Shear Capacity Of Reinforced Concrete Beams With Coated E-	18,000
		K. Udhaya Prabhu (I-Year)			

BME - B.E Students		K. Mukeshwaraa (I-Year)		Glass Fibres		
	141	B. Mukul Anand (II-Year)	Dr. R. Rajkumar	Experimental Study on Concrete with M Sand and Fly Ash Subjected TO Fatigue Loading	22,000	
		G. Vishnu Aravind (II-Year)				
		A. Prasanth (II-Year)				
		K. Yogesh Kumar (II-Year)				
	142	S. Kim Nepheg (III-Year)	Dr. B. Mahalingam	Light Weight Construction Materials Using EPS And FLYASH	25,000	
		M. Sai Pradeep (III-Year)				
		T. Ajith Kumar (III-Year)				
		143	M. Abinaya (III-Year)	Dr. V. Mahesh	Attention enhancement system using virtual reality for adhd patients	13,000
			S. Deepika (III-Year)			
			S. Kertana (III-Year)			
		144	S. Viswanath (II-Year)	Ms. M. Dhanalakshmi	External aid for amyotrophic lateral sclerosis (ALS) patients.	25,000
			G. Praveen Kumar (II-Year)			
		145	R. Divya (II-Year)	Ms. R. Nithya	Development of electronic nose for diagnosis of tuberculosis	25,000
			K.T. Meghna Murali (II-Year)			
R. Manuj (II-Year)						
146		M. Annamalai (III-Year)	Ms. B. Divya	Indian sign language converter using sEMG	25,000	
		K. Deepa (III-Year)	Ms. J. Delpha			
		A. Dhanuja (III-Year)				
147		K. Bargavi (III-Year)	Ms. N. Laxmi	EOG controlled motorized wheel chair for the disabled	25,000	
		R. Haripriya (III-Year)				
		V. Sandhya (III-Year)				
148		R. Rathi Adarshi (III-Year)	Ms. R. Nithya	Development of lower extremity exoskeleton	18,000	
		R. Shuruthi Sree (III-Year)				
		S.A. Jerome Jayakar (II-Year)				
149		N. Abinaya (III-Year)	Dr. N.P. Rajesh	Investigations on Design and fabrication of dielectric resonator antennas using ZrTiO ₄	25,000	
		B.N. Shaalu Shree (III-Year)	Dr. R. Subashini			
150	S. Abinaya (III-Year)	Dr. Sachin Gaurishankar Sarate	Temperature measurement for hypoglycemic condition	18,000		
	N. Divya Raghavi (III-Year)					
	S. Manasvi (III-Year)					
	S. Pushpika (III-Year)					
Total					2942000	

3.1.5 Give details of the faculty involvement in active research (Guiding student research, leading Research Projects, engaged in individual/collaborative research activity, etc.

The institution has setup Centre of Excellence (CoEs) for certain specialized areas to ensure interdepartmental collaborative research. The CoEs are in the following areas:

- Energy
- Materials
- Speech Technology
- Healthcare Technology
- Machine Learning
- Smart Technology

The institution has entered into a MoU with various R&D organizations & Universities such as DST, NIOT, NRB, IGCAR, AICTE, IBM etc. and has been awarded collaborative Projects, funded by them.

In addition to the above, through the MOU it has with foreign Universities such as Carnegie Mellon University and National Tsing Hua University, faculty and research scholars are involved in R& D activities through scholar exchange programmes with these Universities. The organisations with which the college has MOUs and the resulting research activities are indicated below:

MOUs signed with Industries and associated research activities :

Department of Electrical & Electronics Engineering

Sl. No.	Organisation with which there is an MOU	Associated research/other activity	Remarks
1	Steinbeis Solar Research Center	Conducted a workshop	--
2	Starcom Information Technology Ltd.	--	--
3	Hibres Technologies	--	--

Department of Electronics & Communications Engineering

Sl. No.	Organisation with which there is an MOU	Associated research/other activity	Remarks
1	Enixs Technologies	Joint EDA / SoPC Lab centre	Altera's 15-User Quartus II Perpetual Licence

2	Cranes Software International Limited, Bangalore (University Program Partner of Texas Instruments, India)	<ul style="list-style-type: none"> • Teaching/Research Lab setup at SSNCE in the area of Embedded Systems/ Microcontrollers • Analog Teaching Lab using ASLK Starter Kits at SSNCE • Pure MCU (Teaching/Research) lab setup at SSNCE in the area of Embedded systems • Connectivity attach MCU (Teaching/Research) lab setup at SSNCE in the area of Embedded systems/Microcontrollers 	Development kits based on TIMSP430 and Analog System Laboratory Kit
3	Intel India	Low Power Computing Systems Lab based on Intel Atom processor	Collaboration program of Intel Atom based embedded curriculum
5.	Regional Telecom Training Centre (RTTC) – BSNL – Chennai.	Providing Inplant/Lab training, doing project work in RTTC, and Joint Research & development activities	
6.	Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V (FhG) , Germany and AEM, Fraunhofer Institute for High Frequency Physics and Radar Techniques FHR (AEM-FHR) Germany	Collaboration in the field of Antenna gain measurement techniques	
7.	Tata Elxsi, Chennai	To provide a platform to build an strong and on-going relationship between TEL and SSN CE Industry	

Department of Computer Science & Engineering

Sl. No.	Organisation with which there is an MOU	Associated research/other activity	Remarks
1.	Catepillar India Private Limited	Internships, Student projects, Consultancy, Placements	-
2.	Manatec Electronics PVT LTD	Consultancy work, Student project	-
3.	TATA EIXSI LTD	Student projects, internships	-

4.	Computer Sciences Corporation India Private Ltd	Student projects	-
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Department of Chemical Engineering

Sl. No.	Organisation with which there is an MOU	Associated research/other activity	Remarks
1	M/s.Armats Biotek Private Limited 26.08.2013	Associated research	Nil
2	M/s.Sheenlac Paints Limited, Chennai 05.08.2015	Associated research	Separation process with Ionic liquid

Department of Biomedical Engineering

Sl. No.	Organisation with which there is an MOU	Associated research/other activity	Remarks
1	Neolight, LLC, USA	Industry-Institute collaboration	Industry specific training program, Consultancy project & organizing seminar/conferences
2	Aries Biomed technology	Industry-Institute collaboration	Industry specific training program, Consultancy project & organizing seminar/conferences
3	Wild box technologies	Industry-Institute collaboration	Industry specific training program, Consultancy project & organizing seminar/conferences
4	Texas Instruments	Industry-Institute collaboration	Industry specific training program, Consultancy project & organizing seminar/conferences
5	Phoenix Medical system	Industry-Institute collaboration	Projects for UG students under non-degree bases
6	SRMC, Porur	Hospital-Institute interaction	Hospital visit & external research grant
7	Chettinad Super speciality Hospital	Hospital-Institute interaction	Diagnostic services, surgeries, health checkup
8	Itie knowledge solution	Industry-Institute Interaction	Students visit for advanced research work
9	Mediscan group of Institution	Medical Laboratory-Institute Collaboration	Exchange of technical data in biomedical science field

Department of Mechanical Engineering

Sl. No.	Organisation with which there is an MOU	Associated research/other activity
1.	M/s Ecologikol Advisors India Pvt. Ltd., Chennai. (MOU dt. March 1, 2016)	Joint Research with Dr. N. Lakshmi Narasimhan on Building Cooling and was offered an internship during May 25-28, 2016 under faculty internships.
2.	M/s Barola Aero Sports, Chennai. (MOU dt. March 1, 2016)	Training Programme planned during Sep/Oct 2016

Department of Civil Engineering

Sl. No.	Organisation with which there is an MOU	Associated research/other activity	Remarks
1	JSW Steel Ltd. Salem Works	Strength and Durability studies on SMS Slag	18.02.2015 to 17.02.2018
2	P.A Footwear Pvt. Ltd., Tannery Division, Ranipet	Beneficial use of WB Leather Scraps	On going

3.1.6 Give details of workshops/training programmes/sensitization programmes conducted/organized by the institution with focus on capacity building in terms of research and imbibing research culture among the staff and students.

The details of Conferences / Workshops / Seminars Organized during the last four years are given below:

Year	Department	Programme
January 10 – 11, 2013	Mechanical	Workshop on “Fundamentals of CFD”.
January 22 – 23, 2013	BME	Workshop on “Recent Advancement in Diagnostic and Therapeutic Equipments and their Applications”.
January 25, 2013	Physics	Workshop on “Underwater Acoustics (OWUA)”.
January 24 – 25, 2013	Mechanical	National Conference on “Strategies for Successful Interaction with Industries”.
January 31, 2013	Chemical	Workshop on “MATLAB”.
February 02, 2013	CSE	Workshop on “Android Hackathon”.
February 06, 2013	CSE	Open Source Conference on “OS Ready”.
February 19, 2013	Mechanical	Workshop on “Innovation and Creativity for Product Development”.
February 22, 2013	Mechanical	Workshop on “Friction surfacing and Stir welding of ferrous alloys SURSTIR '13”.
February 26, 2013	Chemical	National Student Conference on “Recent Advancement in Chemical Engineering (RACE)”.

March 22, 2013	EEE	Workshop on “Control of Power Converters with FPGA using MATLAB Xilinx Interface”.
March 01 – 02, 2013	EEE	Second National Conference on “Power System, Power Electronics and Drives, PSPED 2013”.
March 14 – 16, 2013	BME	International Conference on “Biosignals, Images and Instrumentation (ICBSII 2013)”.
March 15, 2013	Mechanical	Workshop on “Research Trends in Finite Element Analysis”.
March 16 – 16, 2013	Mechanical	Workshop on “Aero Modelling”.
March 15 – 16, 2013	ECE	Seminar on “Advances in Wireless Communications”.
March 22, 2013	EEE	National Workshop on “Control of Power Converters using MATLAB Xilinx Interface”.
April 02-03, 2013	ECE	National Conference on “Cyber physical system: Application and Challenges”.
April 09, 2013	BME	Workshop on “Digital Signal Processors”.
April 09, 2013	Mechanical	Workshop on “Automotive Technical cum Practical Training”.
April 10, 2013	ECE	National Conference on “Emerging Trends in Information and Communication Technologies (NCETICT-2K13)”.
April 10, 2013	ECE	National Conference on “The road to writing better papers”.
April 13, 2013	Mechanical	Workshop on “Research Avenues in Thermal Engineering”.
May 06-08, 2013	EEE	CSIR Workshop on “Power Conversion Technologies for Renewable Energy Systems”.
July 20, 2013	ECE	Seminar on “Research and Publishing”.
July 24, 2013	EEE	Workshop on “Emerging Energy Scenario in India and its Challenges”.
July 25-26, 2013	BME	National Seminar on “Transforms on Signal and Image Processing”.
August 2, 2013	Chemical	National Conference on “Advancements in Adsorption Science and Technology”.
August 7, 2013	Mechanical	Workshop on “Aero Modelling Hand gliders”.
August 8, 2013	Chemical	National Workshop on “Hands on Training in Heavy Metal Analysis: Atomic Adsorption Spectroscopy”.
August 17, 2013	EEE	ISTE Seminar on “Role of Science and Humanities in IIT’s and Engineering College”.
August 19-20, 2013	ECE	Workshop on “Trends and Developments in Signal Processing and its Applications”.
August 19-20, 2013	IT	Workshop on “SOA in Practice”.
August 27-28, 2013	IT	Workshop on “Ethical Hacking”.
September 3, 2013	IEEE	Workshop on “Solar Lamp Design – Hands on”.
September 17, 2013	IEEE	Workshop on “Solar lamp Design contest”.

September 20, 2013	CSE	Workshop on “Introduction to Medical Imaging and Classification Techniques”.
September 20-21, 2013	EEE	National Workshop on “Advanced Power Electronics Interfaces for Distributed Energy”.
September 20-21, 2013	ECE	National Workshop on “ARM mbed Cortex M Processor Platform”.
September 20-21, 2013	IT	National level Workshop on “Fundamental Analysis and Processing of Image and video with Computing Techniques”.
September 21, 2013	CSE	Workshop on “Python Programming”.
September 26, 2013	I-Cell	National Conference on “Recent Trends in Chemical Energy and Environmental Engineering”.
October 3, 2013	Mechanical	Workshop on “Alternative Sources of Energy Issues and Challenges”.
October 4, 2013	Chemical	National Level Conference on “Nano Bio-technology”.
October 4-5, 2013	CSE	Workshop on “Natural Language Processing”.
October 5, 2013	Chemical	Research Seminar on “ANN Modeling for the treatment of industrial effluent using electrochemical reactor”.
November 11 13, 2013	ECE	Workshop on “Electromagnetics”.
December 5, 2013	ECE	“Reflect Array Antenna Design”.
December 6 – 7, 2013	SASE	Workshop on “Software Architecture for Managers”.
January 7 – 9, 2014	EEE	International Conference on “Electrical Energy Systems – ICEES 2014”.
January 16, 2014	SSN CE	Workshop on “Group Discussion and Interview”.
January 27, 2014	CSE	Organized ACM Code County 2.0
February 4, 2014	Mechanical	Workshop on “Automotive Technical cum Practical Training”.
February 10 & 11, 2014	BME	Workshop on “MIMICS Innovation Suite: Engineering on Anatomy”.
February 14, 2014	CSE	Workshop on “Open Stack”.
February 15, 2014	Chemistry	Workshop on “Recent Trend in Nuclear Magnetic Resonance Spectroscopy and Imaging”.
February 17, 2014	CSE	Workshop on “Blended Learning through Massively Empowered Class Rooms”.
February 27 & 28, 2014	Chemical	International Conference on “Recent Advancements in Chemical, Environmental and Energy Engineering (RACEEE 2014)”.
March 4 & 5, 2014	Mechanical	Workshop on “Annual Glider”.
March 14 & 15, 2014	EEE	National Workshop on “Electromagnetic Design & Analysis of Electrical Machines”.

March 18, 2014	Mechanical	Workshop on “Recent Advancement in Alternate Energy Sources”.
March 19, 2014	CSE	Workshop on “Natural Language Processing”.
March 21, 2014	BME	National Conference on “Bioelectronics, Biomaterials and Medical Devices (NCBBM 2014)”.
	Chemical	National Seminar on “Industry Institute Interaction”
March 21 & 22, 2014	ECE	Workshop on “System Design Using TI MSP430 MCU”.
March 28, 2014	Chemical	Workshop on “Artificial Neural Network”.
April 4 & 5, 2014	ECE	Workshop on “Embedded Systems and Industrial Applications”.
April 7, 2014	ECE	Seminar on “Introduction to Electromagnetic Compatibility”.
April 10, 2014	EEE	National Conference on “Recent Trends in Power and Energy Engineering (RTOEE 2014)”.
April 18, 2014	ECE	National Conference on “Information & Communication Technology (NCICT2K 14)”.
April 19, 2014	ISTE/SSN CE	Seminar on “An Engineering Approach to Solve Social Problems”.
June 20 – 29, 2014	Mechanical	Workshop on “Automotive Design and Development”.
	Civil	Seminar on “Study on Space Composite Truss”.
July 18 & 19, 2014	EEE	National Level Workshop on “Power Conversion for Smart Grids”.
July 19, 2014	SSN ACM	Workshop on “LaTeX”.
July 22, 2014	ECE	TI Analog Design Contest
August 7, 2014	Chel	4th National Level Conference on Recent Trends in “Chemical, Energy & Environmental Engineering (CEEE)”.
August 21 & 22, 2014	ECE	Two Day National Workshop on “Cryptography & Network Security”.
September 12 & 13, 2014	ECE	Workshop on “Comprehensive Hands on Experience on Mems Design & Simulation Using Intellisuite Software”.
September 18, 2014	SSN CE	IEEE Student Branch Workshop on “Women Safety”.
September 18, 2014	Chemical	National Level Seminar on “Application of Nanotechnology for Pollution Abatement (ANPA)”.
September 19, 2014	Civil	Technical Workshop on “Engineering for Ocean Hydrocarbon Exploration”.
September 18 to 20, 2014	Physics	National Level Workshop on “Radiological Aspects of Fly Ash & Environmental Radioactivity”.

September 19, 2014	Chemical	One Day Workshop on “Recent Practices in Chemical & Pharmaceutical Industries”.
September 25, 2014	Chemical	National Level Seminar on “Global Warming – Causes, Impacts & Remediation”.
October 6, 2014	Mechanical	One Day Workshop on “CFD Using Star CCM+”.
October 10, 2014	Mechanical	One Day Workshop on “Energy Efficiency”.
October 10 & 11, 2014	ECE	Two Day Workshop on “Cognitive Software Defined Radio”.
October 17, 2014	Mechanical	National Level Workshop on “XFEM Based Fracture Mechanics & its Applications”.
October 30, 2014	ECE & Maths	Seminar on “Recent Developments in Medical Image Processing”.
November 1, 2014.	EEE	International Conference on “Recent Advances in Science & Engineering”.
November 4, 2014	Chemical	Seminar on “New Launch of TSQ 8000 Evo GCMS/MS”.
November 5 to 7, 2014	ECE	IEEE AP-S Workshop on “Advanced Antenna Technology”.
November 6, 2014	ECE	Speech on the topic “Emerging Broadband Technologies of Optical Wireless communication”.
November 11, 2014	ECE	Seminar on “Mathematica software and its features”.
November 13 to 15, 2014	EEE	Workshop on “Smart Grid & Solar PV System design”.
November 27, 2014	EEE	“Simulation and Implementation of Sensored Control of Three Phase BLDC Motor Drive using FPCA”.
December 16 & 18, 2014	EEE	National Workshop on “Energy Management system in micro grids”.
January 06, 2015	IT	Workshop on “Cyber security and Forensics”
January 08, 2015	Mechanical	International Conference on “sustainable Energy Resources, Materials and Technologies”.
January 23, 2015	EEE	National Workshop on “Electrical Drives for Defence Applications”.
February 04, 2015	Physics	Workshop on “Metrohm Autolab Electrochemistry”.
February 5 – 7, 2015	Chemical	Training program on “MALAB and Simulink”
February 6 – 7, 2015	IT	Workshop on “Fundamental Analysis and Processing of Image and Video with Computing Techniques”.
February 6 – 7, 2015	Mathematics	Workshop on “Computational Fluid Dynamics”.

February 12, 2015	Chemical	National Conference on “Recent Trends in Chemical, Energy and Environmental Engineering (CEEE)”.
February 12-13, 2015	ECE & EEE	Workshop on “TI Analog System Design by using ASLK Pro”.
February 20-21, 2015	CSE	National conference on “Distributed Machine Learning (NCDML 2015)”.
February 26-27, 2015	EEE	National conference on “Power Electronics and Renewable Energy Systems (PEARES 2015)”.
February 27-28, 2015	Chemical	National conference on “Sustainable trends in energy and environmental resources (STEER)”.
March 3 -4, 2015	EEE	Workshop on “Solar PV System Design”.
March 4, 2015	Mechanical	Workshop on “Non Destructive Testing”.
March 6, 2015	CSE	Workshop on “Big Data and Hadoop”.
March 10-11, 2015	BME	Workshop on “Cadence Tool”.
March 19-20, 2015	Civil	National Conference on “Advances in Civil Engineering”.
March 21, 2015	ECE	Seminar on “Entrepreneurship”.
March 21, 2015	CSE	Workshop on “Introduction to Linux”.
March 21, 2015	IT	National conference on “Information Technology – NCIT 2K15”.
March 30-31, 2015	ECE & Physics	Workshop on “Modelling Photonic Devices”.
March 31 & April 1, 2015	BME	Workshop on “Embedded Development Module Using Lab VIEW”.
April 4, 2015	IT	Seminar on “Data Analytics”.
April 9-10, 2015	ECE	National conference on “Information and Communication Technology (NCICT 2k15)”.
April 10, 2015	Chemical	National conference on “Recent Trends in Clean Technology for Sustainable Environment (CTSE)”.
April 29-30, 2015	ECE & IT	Workshop on “Technologies for speaker and language recognition”.
June, 2 – 12, 2015	Chemical	One day National Workshop on “Water & Wastewater Analysis (WWWA)”.
June 26, 2015	EEE	Workshop on “MatLab-Xilinx System Generated Interface with Hands on Practice”.
July 1 – 4 2015	CSE	Workshop on “Upa Yoga”.
July 13 & 14, 2015	SSN CE	SAE SSN Collegiate Club Conducted “Tier – I”.
July 14, 2015	SSN - IEEE	Workshop on “Learn 1000 words in 6 hours”.
July 14, 2015	BME	Organized an “Interactive Technical Q & A”.
July 17 & 18, 2015	CSE	Organized a workshop on “LaTeX”.
July 27, 2015	Civil	Workshop on “Recent Advances in Geotechnical Engineering”.
	Maths	Organized the State Level Symposium “eXLog2K15”.
July 29, 2015	BME	Workshop on “Labview”.

July 31, 2015	Chemical	6 th National Conference on “Chemical, Energy & Environmental Engineering”.
July 31, & August 1, 2015	CSE	Workshop on “Embedded Software Development”.
August 1, 2015	SSN CE	National Workshop on “Simulation Softwares for Power Electronics”.
August 4, 2015	BME	Organized Workshop on “Biomedical Statistics & Information Technology Influencing the Current Medical Field”.
August 7, 2015	EEE	National Workshop on “Design of Digital Controllers in FPGA using MATLAB System Generator – Hands on”.
August 12 & 13, 2015	ECE	Workshop on “MSP430 Wireless Interfacing Modules”
September 4 & 5, 2015	Maths	Workshop on “Advanced in Applied Engineering Mathematics”.
September 9 & 10, 2015	ECE	Workshop on “Embedded Systems”.
September 11, 2015	Chemical	National Workshop on “COMSOL Multiphysics”.
September 18 & 19, 2015	CSE	Workshop on “Model Checking”.
September 22, 2015	Chemical	National Workshop on Instrumental Methods of Analysis (IMA)”.
September 24 – 26, 2015	Maths	National Seminar on “Finite Element Methods (NSFEM 2015)”.
September 25, 2015	Chemical	National Conference on “Clean Technology for Sustainable Environment (CTSE)”.
October 9, 2015	ECE	Workshop on “Internet of Things”.
October 14, 2015	English	Organized the prize-giving ceremony of the ‘SSN Creative Writing Contest’.
October 15 – 17, 2015	CSE	Organized a workshop on “Advanced Data Structures & Algorithms”.
October 16 & 17, 2015	ECE	Workshop on “Cadence Tools”.
October 19, 2015	ECE	Workshop on “Antenna & RF/Microwave Simulations using CST Studio Suite 2015”.
October 20, 2015	Civil	Seminar on “Drought Vulnerability Assessment in Irrigated Agriculture”.
October 28, 2015	CSE	Workshop on “How to write a Research Paper”.
November 27, 2015	Chemical	National Workshop on “Writing Scientific Research Paper”.
November 30 – December 7, 2015	ECE	Organized FDTP on “EC6602 – Antenna & Wave Propagation”.
December 12, 2015	Mechanical	National Conference on “Recent Advances in Materials & Manufacturing”.

January 8 – 11, 2016	IT	Organized a “Winter School on Speech & Audio Processing (WiSSAP – 2016), on the theme “Speech Prosody”
January 20 – 22, 2016	ECE	AP-S workshop on “Key Electromagnetic Concepts”
January 22 & 23, 2016	SASE	Workshop on Architecting for the Cloud”
February 1 & 2, 2016	IT	Workshop on “Research Prospects in Image Fusion & Registration”.
February 4, 2016	EEE	Seminar on “Steel Structures”.
February 9, 2016	Chemical	Technical Talk on “Emerging Trends in Process Automation with DCS & PLC Overview”.
February 12, 2016	CSE	National Level Seminar on “Predictive Analytics – Big Data & Health Care”.
February 18, 2016	EEE	Guest Lecture on “ Resonant Converters”.
February 19 & 20, 2016	English	National Conference on “Teaching English Language to the 21 st Century Learners”.
February 20, 2016	EEE	Workshop on “Hands on Workshop on Pspice & Psim”.
February 22 & 23, 2016	BME	Workshop on “Digital Signal Processing”
February 27, 2016	EEE	Guest Lecture on “Power System Protection Application in Smart Grid Systems”.
March 1, 2016	EEE	Workshop on “PSpice & PSim”
March 3 & 4, 2016	BME	National Level Workshop on “Advancement in Biomedical Engineering & Sciences”.
March 7, 2016	BME	Guest Lecture on “Lasers in Ophthalmology & OCT”.
March 7, 2016	Mech	Guest Lecture on “Advanced Materials & Manufacturing”.
March 7, 2016	IT	Workshop on “Fundamental Analysis & Processing of Image & Video with Computing Techniques”.
March 9, 2016	BME	Guest Lecture on “Visual Evoked Potential – Principle & Clinical Applications”.
March 17, 2016	Civil	Workshop on “Recent Advancement in Remediation”.
March 17 – 19, 2016	EEE	International Conference on “Electrical Energy Systems ICEES 16”.
March 18, 2016	Chemical	National Conference on “Recent Trends in Chemical, Energy & Environmental Engineering”.
March 18, 2016	CSE	National Conference on “Internet of Things & Data Analytics, IoTDA 16”.
March 21, 2016	Mech	Workshop on “New Trends in Welding Technology”.
March 21 & 22, 2016	Physics	National Level Conference on “Advanced Materials”.

March 22 & 23, 2016	IT	Workshop on “The Internet of Things – Hands – on with Raspberry Pi”.
March 23, 2016	BME	Guest Lecture on “Restoring Hearing through Technology”.
March 23, 2016	CSE	Workshop on “Version Control System Using Git”.
March 23 – 25, 2016	ECE	Hosted the IEEE International Conference on “Wireless Communication, Signal Processing & Networking (WiSPNET16)”.
March 31, 2016	ECE	Guest Lecture on “Soft Skills Training for Students”.
March 31, 2016	BME	Guest Lecture on “Polymers for Medical Applications : Macro to Nano”.
April 1, 2016	Mech	National Level Workshop on “Refresher course in Finite Element Analysis”.
April 1, 2016	Mech	Guest Lecture on “Introduction to New Product Development”.
April 2, 2016	IT	Organized a National Level Project Competition VIVID 2016
April 7, 2016	IT	Guest Lecture on “Role of IEEE Women Empowerment”
April 16, 2016	BME	Guest Lecture on “Medical Image Registration & Image Segmentation Using Active Contours”.
April 25 & 26, 2016	Mech	International Conference on “Mechanical Engineering Design (ICMED 2016)”.
April 29, 2016	ECE	Lecture on “4G & Beyond”.
May 6, 2016	Mech	National Level Conference on “Processing & Characterization of Advanced Engineering Materials”.
June 16, 2016	Chemical	National Level Workshop & Hands Training on “Instrumental Methods of Analysis (IMA)”.
June 20 & 21, 2016	ECE	National Level Conference on “Research Challenges in VLSI Design & Embedded System for Wireless Communication System”.
July 18, 2016	CSE	Guest Lecture on “Three Pillars of Analytics”
	Mech	Guest Lecture on “MEMS AND Multi-Criteria Design Making”.
July 19, 2016	IT	Guest Lecture on “Cyber Warfare and Security Measures”.
July 22, 2016	ECE	Seminar on “Information Coding Techniques”.
July 24, 2016	Civil	Guest Lecture on “Special types of Concrete”.
July 27, 2016	ECE	Workshop on “Wireless Sensor Nodes-Telos B and C Mote”.
	IT	Guest Lecture on “Evolutionary Computation and Applications”.
July 28, 2016	CSE	Guest Lecture on “Machine Learning”.

August 04, 16	BME	A Hands-on workshop on cardio-thoracic equipments by Bio-Vision Medical Systems
August 05, 2016	Chemical	Workshop on Introduction to Computational Fluid Dynamics
August 05, 2016	CSE	Two day workshop on "Computational thinking" for the Istyear CSE students.
August 12, 2016	Chemical	Workshop on Process Flow Diagram (PFD) and Piping & Instrumentation Diagram (P & ID) for Engineers
August 19, 2016	Chemical	National Conference on Chemical Energy and Environmental Engineering (CEEE)
August 22, 2016	CSE	SSN-CSI students chaptarevent on "coding for placements"
August 29, 2016	CSE	SSN-CSI students chaptarevent on, Technical Aptitude and Puzzle Solving
September 1 – 2, 2016	BME	Hands on Workshop on PIC Micro-controller programming by Galwin Technologies
September 6 – 16, 2016	CSE	FDTP - Cryptography and Network Security
September 09, 2016	MBA	Consulting – A Practitioner's Perspective
September 9 – 10, 2016	Chemical	Student Level National Symposium (INVENTE 2k16)
September 15, 2016	Civil	Second National Conference on Advances in Civil Engineering
September 19, 2016	CSE	SSN-CSI students chaptarevent on, Reverse coding and content writing
September 21, 2016	Chemical	Workshop on Green & Sustainable Technologies for Zero Emissions -2016
September 23, 2016	Chemical	Workshop on Writing Scientific Research Paper – Phase II
September 26, 2016	CSE	Talk on Innovation in Industry and Data Warehouse Concept
September 30, 2016 & October 01, 2016	CSE	Two day workshop on "Machine Learning in Intelligent Image Processing"
October 06, 2016	MBA	The future of e-Commerce in India
October 31, 2016 to November 04, 2016	ECE	FDP on Electromagnetics
November 23, 2016	BME	Lecture on Deep learning by Mr.VigneshBaskaran, Data Scientist, Darts-ip, Master of Artificial Intelligence, KU LeuvenBelgium (SSN Alumnus)
November 28, 2016	BME	Seminar on "Advancements in Biomedical Engineering" by Dr. VivekIndramohan, School of Health Sciences, Birmingham City University.
December 01-03, 2016	Mathematics	Third National Conference on Reliability and Safety Engineering

December 01 - 03, 2016	ECE	FDP on Antenna Design and Measurement Techniques
December 08, 2016	CSE	Workshop on, C++ STL
December 12-13, 2016	ECE	IEEE-INAE Symposium on Electromagnetic Education and Research
December 12-19, 2016	EEE	FDP - EE 6602 - Embedded Systems
	Chemical	FDP on Modern Separation process in Environmental Applications (MSPEA)
January 4 - 6, 2017	ECE	Workshop on Internet of Things for Industrial Applications
January 7, 2017	ECE	Teacher's Conclave
January 10, 2017	English	A One day workshop on "Teaching 'Speaking' within the Framework of the School Curriculum
January 10 - 11, 2017	IT	International Conference on Computer, Communication and Signal Processing, ICCCS - 2017
January 21, 2017	Chemistry	Advanced Materials and Supramolecular Chemistry
January 30-31 2017	Civil	Seminar on Repair and Rehabilitation of Structures
	EEE	National Workshop on "Power System Analysis using Advanced Simulation Softwares".
February 01, 2017	BME	"MEMS - Microfluidic Systems", SSNCE by Mr. Vigneswaran Narayanamurthy, Universiti of Malaysia Pahang, Malaysia
February 02, 2017	Chemical	National Conference on Sustainable Trends in Energy and Environmental Resources (STEER)
	CSE	SSN-CSI students chapter event on, Sci-Tech Quiz
February 03-04, 2017	Civil	National Conference on Disaster Mitigation, Responsiveness and Management
	Physics	Two Day Workshop on Advanced Functional Materials
February 06, 2017	BME	"Rehabilitation Engineering" at BME seminar hall by Dr. Sunder, MBBS, MD - Physical Medicine & Rehabilitation
February 08, 2017	MBA	Union Budget 2017-18
February 29, 2017	Chemical	National Conference on Advances in Chemical, Biological and Environmental Engineering: (ACBEE)
February 9-10, 2017	IT	Machine Learning Techniques for Image-Based Applications
	ECE	Hand on training on "MEMS design tools"
February 10, 2017	Mathematics	MATH and MATLAB workshop
February 15, 2017	CSE	SSN-CSI students chapter event on, Code from Home
February 17, 2017	Chemical	Workshop on Writing Scientific Research Paper - Phase III

February 17-18, 2017	CSE	SSN-CSI student chapter organized two days Workshop on Latex software
February 20, 2017	CSE	IEEE, ACM and CSI student chapter organized workshop on , Research Methodology
February 10, 2017	Chemical	2nd International Conference on “Recent Advancements in Chemical, Environmental & Energy Engineering” (RACEEE-2017)
February 23-24, 2017	IT	Phython Programming
February 25, 2017	Mathematics	eXLog2k17
	CSE	SSN-CSI students chapter event on, Python Programming
	English	A One day FDP on "Recent Trends in ELT"
March 03, 2017	IT	Workshop on Cyber Awareness Program-Insight Perspective (CAP IS)
	EEE	National Workshop on Control And Automation
	Chemical	National Conference on Sustainable Energy and Environmental Science, Engineering and Technology
March 16-18, 2017	EEE	International Conference on Power and Embedded drive Control (ICPEDC 2017)
	BME	IEEE Sponsored International Conference on Biosignals, images and instrumentation (ICBSII 2017).
March 17-18, 2017	Chemical	National Conference on Green Chemical Process and Sustainable Technologies (GCPST 2017)
March 21, 2017	MBA	Emotional Intelligence
	CSE	CSI Project Colloquium
March 22-24, 2017	ECE	IEEE International Conference on Wireless Communications, Signal processing and Networking (WiSPNET-2017)
March 24, 2017	IT	VIVID 2017
	Civil	Workshop on Construction Management – Best Practices
March 25, 2017	CSE	Workshop on, Machine Learning
	CSE	Two-Day National Workshop on "“Computational Platforms for Research in Bioinformatics:Challenges at the Interface of Computer Science and Biology”".
March 27- 28, 2017	Physics	Two day Workshop on Advances in Radiation Monitoring & Environmental Technology
March 29, 2017	CSE	SSN-ACM student chapter conducted onsite programming contest, Code County
March 30-31, 2017	EEE	Hands-on Workshop on Power Electronics & Drives

March 31, 2017	Mechanical	National Conf. for Mechanical Engineering Research Scholars (MERS-2017)
	IT	Seminar on open research problems in Internet of Things
April 04, 2017	IT	RSS SNA 2017
April 07-08, 2017	English	A Two day National Conference on 'Does INPUT equal INTAKE while teaching English as a Second Language?'
April 20, 2017	ECE	Workshop on Hands on Introduction to Arduino for Beginners
May 11- June 10, 2017	Chemistry	6th Chemistry Research Drive

3.1.7 Provide details of prioritised research areas and the expertise available with the institution.

The prioritised research areas are as follows:

- Energy
- Materials
- Speech Technology
- Healthcare Technology
- Machine Learning
- Smart Technology

3.1.8 Enumerate the efforts of the institution in attracting researchers of eminence to visit the campus and interact with teachers and students?

The institution has set up a Research Advisory Council (RAC) to oversee research activities, provide vision and connect with the research community in India and abroad. The RAC consists of eminent researchers in India and abroad and is given in section 3.1.2.

Apart from this, International conferences are organized by departments where eminent researchers are invited for keynote speeches and possible collaboration in the areas of research.

3.1.9 What percentage of the faculty has utilized Sabbatical Leave for research activities? How has the provision contributed to improve the quality of research and imbibe research culture on the campus?

Around 25% of institution faculty is currently pursuing their Ph.Ds from reputed institutions in India and abroad. They take sabbaticals as and when required for their research activities. This ensures that the faculty is exposed to new ideas and new avenues of research which they can conduct at the institution.

3.1.10 Provide details of the initiatives taken up by the institution in creating awareness/advocating/transfer of relative findings of research of the institution and elsewhere to students and community

The institution has started an Innovation and Incubation Centres to ensure that the research findings can be converted to products wherever possible and be showcased to the students, faculty and industry. This motivates the other students to do research and also helps with industry tie ups. Another initiative is setting up of an incubation centre where faculty who are interested in commercialization of their research can avail of funding and mentorship.

3.2 Resource Mobilization for Research

3.2.1 What percentage of the total budget is earmarked for research? Give details of major heads of expenditure, financial allocation and actual utilization.

To promote research in the college, the Management has provided specific amounts for R&D activities during its annual budget. The budget provision made for research during 2012 to 2016 are given below:

Particulars (Rs. Lakhs)	2012-13	2013-14	2014-15	2015-16	2016-17	
	Actual	Actual	Actual	Actual	Budget	Actual
Capex	21	51	470	157	114	120.5
Salary Cost	61	65	69	73	82	102
Other Opex	37	77	107	168	62	63
Total	119	194	646	398	258	285.54

3.2.2 Is there a provision in the institution to provide seed money to the faculty for research? If so, specify the amount disbursed and the percentage of the faculty that has availed the facility in the last four years?

Yes. The amount disbursed by the institution and the percentage of faculty who have availed this facility is shown below.

Year	Total internal fund provided (Lakh of Rupees)	Number of Faculty		
		On Rolls	Who have availed this facility	Percentage
2012	47.18	257	18	7.0
2013	61.03	264	22	8.56
2014	84.91	265	40	15.09
2015	97.06	267	40	14.98
2016	111.58	275	42	15.27

3.2.3 What are the financial provisions made available to support student research projects ?

Management funds the promising student research projects. About a hundred student projects are funded every year by the management. These projects usually lead to publications in refereed international journals. The Table below shows the funding received by student projects from the management:

Seed Fund disbursed to Students

	Till 2011	2012	2013	2014	2015	2016	Total
Number of projects	15	28	50	100	135	150	478
Funding (Rs. InLakh)	4	5.93	11	20.27	26.55	29.42	97.15

The detailed information is given in Section 3.1.4.

3.2.4 How does the various departments/units/staff of the institute interact in undertaking inter-disciplinary research? Cite examples of successful endeavors and challenges faced in organizing interdisciplinary research.

The interdisciplinary research is in the formation stage and is proposed in six major areas. They are Energy, Materials, Speech Technology, Healthcare, Machine Learning and Smart Technology. Researchers from different departments contribute and collaborate in a particular area and meet regularly to review and discuss the research projects under their areas.

3.2.5 How does the institution ensure optimal use of various equipment and research facilities of the institution by its staff and students?

The institution ensures that labs and other equipment are available to the researchers irrespective of their department at any time of the day. There are no restrictions on the lab timings and their usage for the researchers. The Head of the Department ensures that all researchers have access to the equipment in a fair and transparent manner. This ensures that the facilities are used optimally.

3.2.6 Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facility? If 'yes' give details.

The institution has many labs funded by the industry as well by the alumni in various departments. Some of the industries which have funded labs at the institute include Danfoss, CTS, Intel among others.

3.2.7 Enumerate the support provided to the faculty in securing research funds from various funding agencies, industry and other organisations. Provide details of ongoing and completed projects and grants received during the last four years.

Many new incentives have been introduced to give a boost to the research involvement of the faculty. Management has been giving seed money to start a research project, so that once it shows signs of success, the faculty can apply for external funding. Further, faculty is sponsored for higher studies like Ph.D. Travel grant and registration charges to attend national and international Conferences are met by the SSN Trust. The faculty actively involved in research, are given a reduced workload so that they can concentrate on their research. They are free to use the ICT facilities available in the campus and the expenditure for testing their samples/circuitry at an outside agency/organization is met by the college. The services of the accounts department are made available to them for settling the accounts of the research Projects and timely submission of the completion reports. The list of on-going funded projects earned by the faculty as on date is given below:

Department of Electrical and Electronics Engineering

Sl. No.	Name of the Faculty	Funding Agency	Title of Project	Amount in Rs. Lakh	Date of Approval	Status
1	Ms. S. Krishnaveni Dr. V. Rajini	SSN Trust	High voltage pulse generator based on high gain DC-DC converter for PEF food processing	2.15	2017	Ongoing
2	Dr. R. Seyezhai Ms. D. Umarani	SSN Trust	High efficiency PV module integrated converter based on cascaded quasi-Z-source inverter	4.25	2017	Ongoing
3	Dr. Mrunal Deshpande	SSN Trust	Design and development of switched reluctance motor drive with minimum torque ripple	3.85	2017	Ongoing
4	Dr. V. Rajini	AICTE	Modernization of High Voltage lab as a unified power Lab	19.54	2014	Ongoing
5	Dr. V. Rajini	MNRE	A novel fused converter for SPV-wind based hybrid systems to power rural telephony	34	2014-16	Ongoing
6	Dr.	C-WET	Study and Control of	7.75	2011-	Completed

	Ranganath Muthu		Grid Weak Connected Matrix Converter based DFIG System		2015	
7	Dr. Ramaprabha	SSNCE	Design and development of efficient Building integrated PV system under partial shaded conditions	19.54	2013-16	Ongoing
8	Dr. Ramaprabha	DST – WoS A	Design and Development of Flywheel based Power Conditioning System for a Renewable energy fed Micro grid	17.1	2014-17	Ongoing
9	Dr. R. Seyezhai	AICTE	Development of Cascaded source Multilevel Inverter for Photovoltaic Applications	24.5	2013-2016	Ongoing
10	Dr. R Seyezhai	SSN Trust	Solar Electric Vehicle using BLDC Drive	4.5	2013-2016	Ongoing
11	Dr. M. Balaji	Science and Engineering Research Board	Design and Development of Hybrid Switched Reluctance Motor Drive	22.9	2015	Ongoing
12	Mr. P.Saravanan	DST-SERB	Design and Development of Axial Flux Switched Reluctance Motor based Battery operated Vehicle	Rs.45 Lakh	2015	Ongoing
13	Mr. V. N. Thiagarajan	Horizon Solutions Ltd	Smart Street Lighting System	1.0	2015	Ongoing
14	Mr. V. N. Thiagarajan	SSN Trust	Electromechanical characterization of SiR-EPDM blends	2.63	2012	Completed
15	Mr. V. N. Thiagarajan	SSN Trust	Design of D-STATCOM for Reactive Power Compensation for Wind Turbine Systems	3.5	2009-2012	Completed
16	Mr. V. N. Thiagarajan	SSN Trust	Efficient Energy Utilization of Solar PV Array under Partial	9.19	2009-12	Completed

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Department of Electronics and Communication Engineering

Sl. No.	Principal Investigators / Co Investigators	Project Title	Funding Agency	Duration	Amount in Rs. (Lakh)		Current Status
					Sanctioned	Utilized	
1	Dr. B. S. Sreeja Dr. S. Radha	Electromagnetic infrared energy harvester on flexible substrate	SSN Trust	2016 - 2018	2.13		On going
2	Dr. S. Sakthivel Murugan	Facility enhancement of underwater acoustic research laboratory	SSN Trust	2016 - 2017	3.40		On going
3	Dr.T.Nagarajan (PI) (Dept. of IT) Dr.P.Vijayalakshmi (Co - PI) Dr.B.Bharathi (Co-PI) (Dept. of CSE) Ms.Sasirekha (Co - PI) (Dept. of IT)	Speech enabled interactive enquiry system in Tamil	Tamil Virtual Academy	2016 - 2017	9.52	In progress	on going
4	Dr.S.Salivahan Dr.S.Radha	Fund for Improvement of S&T Infrastructure	DST - FIST	2014 - 2019	50	In progress	on going
5	Dr.T.Nagarajan (PI) (Dept. of IT) Dr.P.Vijayalakshmi (Co-PI) Dr.A.Shanina (Co-PI) (Dept. of IT)	Development of Text-to-speech synthesis for Indian languages	MCIT	2012 - 2015	77	In progress	on going
6	Dr.R.Srinivasan (PI) (Dept. of IT) Mr.K.K.Nagarajan (Co-PI)	Study of soft errors in 65nm gate length CMOS SRAM and 30nm gate length FINFET, Tunnel FET and Junction-less FET based SRAM	DRDO	2012 - 2015	30.5	29.47	Completed

		using TCAD					
7	Dr.B.S.Sreeja Dr.S.Radha	Hardware implementation of SPWM control for Standalone Hybrid Renewable Energy using DSP processor	Linton University College, Malaysia	2014-2015	4.4	4.31	on going
8	Dr.S.Radha (PI) Dr.Premanand V.Chandramani (PI)	Intel Embedded Curriculum Initiative in India	INTEL	2011 - 2014	4	4	Completed
9	Dr.S.Radha (PI) Dr.S.Sakthivel Murugan (Co-PI)	Design and Hardware Implementation of an Adaptive Filter to Improve the Signal to Noise Ratio due to Wind Driven Ambient Noise in Shallow Water	NIOT	2010 - 2012	20.6	20.11	Completed
10	Dr.P.Vijayalakshmi (PI) Dr.T.Nagarajan (Co-PI) (Dept of IT)	An Assessment and Intelligibility modification system for Dysarthric speakers	AICTE	2011 - 2012	9	9	Completed
11	By Dept. Faculty and Students	No. of Internal Funded Projects - 35	SSN Trust	2011-till date	73.47	73.47	Completed

Department of Computer Science & Engineering

Department of Computer Science & Engineering							
Sl. No.	Faculty	Title of Project	Funding Agency	Amount (in Lakh)		Date of Approval	Status
				Sanc tioned	Received		
2015 – 2016 External Funding							
1.	Mr. H. Shahul Hamead Dr. T. T. Mirmalinee Dr. S. Sheerazudd in Mr. K. R. Sarath Chandran	Prototyping green network model	SSN Trust	5.10		2017	Ongoi ng

2.	Dr. Shomona Gracia Jacob	Investigation on the effect of Gene and Protein Mutants in the Onset of Neuro-Degenerative Brain Disorders (Alzheimer's Disease and Parkinson's Disease): A Computational study	Science and Engineering research Board – Young Scientist Scheme- External - DST	16.10	6.86	09.11.15	On going
3.	Dr. Venkatavara Prasad Dr. J. Suresh	Projects using GPU computing	nVIDIA – 3 GPU	4.00	4.00	July 2015	On Going
4.	Dr. T. Nagarajan Dr. B. Bhararathi, Dr. P.Vijayalakshmi, S. Sasirekha	Speech enabled interactive enquiry system in Tamil	Tamil Virtual Academy	9.52	9.52	Feb 2016	On Going
5.	Ms. K. Lekshmi	Classification and segmentation of nuclei in hepatocellular carcinoma and dysplastic tumors of Histopathology Images	Global Health City	-	-	June 2016	On Going
2013 – 2014 External Funding							
6.	Dr. T.T. Mirnalinee (with students)	An Innovative Approach for Building an Intelligent Network to Maintain Water Quality	Chellam mal Agro (State Agency)	0.25	0.25	Sep. 2013	Completed

Department of Information Technology

Department of Information Technology							
Sl. No.	Faculty	Title of Project	Funding Agency	Amount(Rs)		Date of Approval	Status
				Sanctioned	Received		
External Funding							
1	Dr.T. Nagarajan Dr. P. Vijayalakshmi Dr. B. Bharathi Ms. S. Sasirekha	Speech-Enabled Interactive Enquiry System in Tamil	Tamil Virtual Academy	9.52L	-	2016	On going
2	Dr.T. Nagarajan Dr. P. Vijayalakshmi Dr. A. Shahina	Development of TEXT to Speech System in Indian Languages - High quality text to speech synthesis and small footprint TTS integrated with disability aids	DIT, MCIT	76.6L	76.6L	2011	On going
Funded by SSN Trust							
1	Dr. P. Vasuki Mr.V. Thanikachalam	Cognitive model based intelligent interactive tutoring system to assist students to improve their programming skill		2.55		2017	Ongoing
2	Dr.N.Bhalaji, Dr. S. Chithra Mr.K.Kabilan	Customization of IOT protocols for societal applications using QOE		3.3 L	0.21L	2015	On going
3	Dr.G. Muneeswari	Multiagent Process Scheduling for NOC based Multicore Systems		1.2 L	NIL	2015	On going
4	Mr.Joe Louis Paul, Ms.S.Sasirekha Ms.R.Swathika	Disaster Management System-Next Generation		3.45 L	NIL	2015	On going

5	Dr. T. Sree Sharmila	Development of high resolution imaging algorithm for underwater acoustic images	3 L	2.8 L	2014	On going
6	Dr. S. Karthika	Joint link prediction by attribute inference in clandestine social network for curbing future attacks	3.5 L	-	2014	On going
7	Ms. S. Mohanavalli Ms. Srividya	Big data Analytics for economic disparity mining	2.3 L	-	2014	On going
8	Mr. R. Vinob Chander	Being Smarter with Smart Objects	3.5 L	0.85 L	2014	On going
9	Mr. K. K. Nagarajan Dr. R. Srinivasan	Ergonomics through image processing	0.6 L	0.6 L	2012	On going

Department of Chemical Engineering

Sl. No.	Faculty	Title of Project	Funding Agency	Date of Approval	Amount in lakh		Status
					Sanctioned	Received	
1.	Dr. D. Balaji Dr. D. Gnana Prakash	Design and development of bio calorimeter for in-line monitoring and control of bio process system for enhanced production of enzymes	SSN Trust	2017	4.55		On going
2.	Dr. R. Anantharaj Dr. B. Ambedkar	Desulphurization of Diesel oil using ionic liquids with quantum chemical prediction and validation	SSN Trust	2017	3.30		On going
3.	Dr. R. Anantharaj	Solvent screening, synthesis, characterization and application of	DST-SERB (Young Scientist Scheme (Start-	09.11.15	19.08	-	On going

		potential solvent for removal of endocrine disrupts chemicals from water matrices	up Grant)				
4.	Dr.K.Sathish Kumar Dr.K.Ramakrishnan	Synthesis of metal nanoparticles for drug delivery applications	SSN Trust	04.01.10	8.25	8.25	Completed
5.	Mrs.R.Pushpalatha	Preparations of Magnetic nanoparticles in silica matrix	SSN Trust	09.07.10	5.0	3.08	Completed
6.	Dr.P. Senthil Kumar & Dr.K. Sathish Kumar	Rapid removal of Heavy metal ions from waste water / wastewater using newly prepared low-cost adsorbent	SSN Trust	30.12.11	8.5	8.5	Completed
7.	Dr.D. Gnana Prakash	Hydrotropic extraction of bioactive compounds using Ultrasonication	SSN Trust	28.12.12	8.5	4.6	Completed
8.	Dr.R. Saravanathambi & Dr.P.Senthil Kumar	Noval photocatalytic reactor for the treatment of industrial effluents	SSN Trust	09.11.13	2.5	2.5	On going
9.	Dr.K.P. Gopinath	Feasibility studies on biodiesel production from macro and micro Algae isolated from various water bodies	SSN Trust	09.11.13	2.5	2.5	On going
10.	Dr.C. Ravikumar &	Experimental investigation	SSN Trust	16.10.14	5.5	5.5	On going

	Mrs.B.Chitra	of heat transfer enhancement using stable nanofluids as coolant for automobile radiators.					
11.	Dr.J. Dhanalaskhmi & Dr. B. Ambedkar	Potential Applications of Ionic Liquids in reducing CO2 Capture Processes Energy Demand	SSN Trust	30.09.15	4	4	Ongoing

Department of Biomedical Engineering

Sl. No.	Faculty	Title of Project	Funding Agency	Amount(in Lakh)		Date of Approval	Status
				Sanctioned	Received		
1	Ms. R. Nithya Ms. D. Kanchana	Design and development of orthotic exoskeleton for lower limb rehabilitation	SSN Trust	1.50		2017	On going
2	Dr. S. Guruprakash, Dr. R. Subashini	Nano-particle based strategies to combat orthopedic implant associated infections	SSN Trust	6	6	2014	On going
3	Dr. R. Sivaramakrishnan	Ocimum sanctum extract coating on biomaterial surfaces to prevent bacterial adhesion and promote tissue integration	SSN Trust	2.5	2.3	2015	On going
4	Dr. S. Pravin Kumar	Cardiac risk monitoring system	SSN Trust	3.5	3.5	2015	On going
5	Dr. A. Kavitha	Implementation of finite element	SSN Trust	7	7	2015	On going

		analysis (FEA) in bone biomechanics for designing suitable implants using MIMICS and 3D printing technology					
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Department of Mechanical Engineering

Sl. No.	Name of faculty	Title of the R&D project	Funding agency	Amount in Rs. Lakh	Period
1.	Dr. K. Rajkumar	Fabrication and investigation on the tribo and bio degradation of Mg (AZ91D) – CaCO ₃ composite	SSN Trust	2.07	2017
2.	Mr. D. Ebenezer	Diffusion bonding of Aluminium alloy 7075 to magnesium alloy AZ91	SSN Trust	6.40	2017
3	Dr. K. L. Harikrishna Dr. A. K. Lakshminarayana	Improving the corrosion resistance of rare earth magnesium alloy welds using micro arc oxidation	SSN Trust	4.20	2017
4	Dr.Ve.Annamalai	Industry-Institute Partnership Cell	AICTE	11	2012-15
5	Dr.K.S.Vijay Sekar	Experimental and finite element investigation of the machining process with composite materials	AICTE	18.65	2012-15
6	Dr. B. Anand Ronald	Magnetic moulding of A/SiCp of metal matrix composites.	DST	9.26	2013
7	Dr.N.Lakshmi Narasimhan	Studies on Enhancement of Charging/Discharging Characteristics of an encapsulated Latent Heat Thermal Storage	Engineers India Ltd.	1	2015
8	Dr.K.S.Vijay Sekar	Develop. of a Low cost Automated <u>Un</u> manned Aerial Vehicle for crop damage inspection	Engineers India Ltd	0.5	2015
9	Dr.Ve. Annamalai	Design and Fabrication lab (under the "Innovation in Teaching Learning Practice")	AICTE MODROB	5.94	2015
10	Dr.K.Babu	Study of Mechanical Properties & Surface Features of Steels	AICTE RPS	9.41	2015

		Quenched in CNT Nanofluid			
11	Dr.M.S.Alphin	Handle Vibration Design	SERB-DST	17	2015
12	Dr.G.Sathishkumar	Smart Street Lighting System	Horizon Engg Solutions	1	2015
13	Dr. R. Damodaram	Friction surfacing for repair of alloy 718 components	DST-SERB	27.89	2016
14	Dr.Ve. Annamalai	Reclamation of abrasives from Bonded, Coated and Sanitary ware rejects	DST	74.16	2016

Department of Civil Engineering

Sl. No.	Name of faculty	Title of the R&D project	Funding agency	Amount in Rs. Lakh	Period
1	Dr. R. Srinath Dr. B. Mahalingam	In-situ remediation of hexavalent chromium in soil and aquifers	SSN Trust	4.60	2017
2	Dr. S. V. Siva Priya	Effect of eccentricity in latterly loaded pile group in a sloping ground	SSN Trust	2.62	2017

Department of Chemistry

Sl. No.	Name of faculty	Title of the R&D project	Funding agency	Amount in Rs. Lakh	Period
1	Dr. S. I. Davis Presley	Approaches to asymmetric synthesis of pipecolic acid and alpha naphthyl ethyl amine	SSN Trust	2.50	2017

SSNRC

Sl. No.	Name of faculty	Title of the R&D project	Funding agency	Amount in Rs. Lakh	Period
1	Dr. M. Senthil Pandian	Characterization of electron and hole transport materials and perovskites for optimizing solar cells efficiency	SSN Trust	2.80	2017
2	Dr.K.Aravinth	High performance lead free piezoelectric energy harvesting	SSN Trust	2.25	2017

Inter-department Collaboration

Sl. No.	Name of faculty	Title of the R&D project	Funding agency	Amount in Rs. Lakh	Period
1	PI: Dr. M. Anbuselvi (ECE)	Battery operated autonomous vehicle with IoT	SSN Trust	2.91	2017
	Co-PI: Dr. P. Saravanan (EEE)				
2	PI: Mr. K. R. Sarath Chandran-CSE	Energy aware multimedia processing in handheld devices through real time hardware reconfiguration	SSN Trust	4.38	2017
	Co-PI: Dr. Premanand V. Chandramani				
3	PI: Dr. Julie Charles Co-PI: Dr. K. Sathish Kumar - CHEM	Synthesis and characterization of ternary conducting polymers doped with various concentrations of prussian blue and metal oxides for supercapacitor applications	SSN Trust	4.25	2017

3.3 Research Facilities**3.3.1 What are the research facilities available to the students and research scholars within the campus?**

The students and research scholars are permitted to use the research facilities available in the institution and the details of these facilities are listed below:

Department of Electrical and Electronics Engineering

Sl. No.	Laboratory	Research Equipment	Cost in Rs. Lakh
1	Solar Energy Research Lab	Single clamp on Power quality analyzer (Fluke 345)	1.25
2	Solar Energy Research Lab	Digital Storage Oscilloscope: MSO 6014A (with standard accessories) along with 4 Numbers of Agilent N2791A voltage differential probe and 1 number of Fluke 80i-110S-100A DC/70A AC 100kHz BW clamp on current probe	5
3	Solar Energy	Integrated Flywheel-motor generator set	1.23

	Research Lab		
4	Solar Energy Research Lab	Solar PV array	1.74
5	Renewable Energy Conversion Lab	Scopecorder	10.86
6	Renewable Energy Conversion Lab	Spectrum Analyzer	2.1
7	Renewable Energy Conversion Lab	SiC MOSFET Based Boost Converter Kit	1.52
8	Renewable Energy Conversion Lab	Three-phase Hybrid Multilevel Inverter Trainer	2.9
9	Renewable Energy Conversion Lab	1KWp Hybrid Solar power system	1.89
10	High Voltage Lab	AC, DC Source	8.17
11	High Voltage Lab	Arc Resistance Measurement ASTM D 495, Surface Resistance, Volume resistance Measurement ASTM D257	2
12	High Voltage Lab	Impulse Source	8.9
13	High Voltage Lab	Agilent DSO	4.5
14	High Voltage Lab	Condition Monitoring set up	2.52
15	High Voltage Lab	Fluke meter	3.65

Department of Electronics and Communication Engineering

Sl. No.	Laboratory	Research Equipment	Cost in Rs. Lakh
1	Research Project Laboratory I	Synopsis Software tool	4.8
		ADS Special University Package	11.96
		Memsic - TPR 2420 CA Telos B Motes	1.81
		Signal Analyzer -7GHz with 89600A vector Signal Analysis software (special Education Package) – 1 License	16.53
		Broad Band Horn Antenna	0.88
		Underwater Acoustic Research Lab – 6 Element Array Hydrophone, Acoustic Transmitter, Acoustic Amplifier, Two 8 Channel Data Acquisition System, Portable UPS	5.54
		RF Absorbers	1.11
		Basic SDR System, Model: USRP B200 Kit, Antenna, SDR Simulator	1.45
2	Research Project Laboratory II	MSO 1.5 GHz	14.32
		Single ended probe	1.36
		WSN Test Bed Components	4.74
		Antenna Turn table with MAST	4.74
		AD-080GE Multispectral camera with cables and mounting jai	4.82
		Logic Analyzer	8.14

		E5346A-Mictor probe- single ended, with 40-pin cable connector	1.01
3	Wireless Technology Laboratory	Software Radio Educational Lab Station: Two NI USRP-2920 Bundles with Lab Materials	4.49
		Academic Lab VIEW Premium Suite (1User) ASL 1 Seat(s) NOT CONCURRENT 1 year(s) Academic Site License Research Standard Service Program	1.63
		Communication Systems MIMO Teaching Bundle, 2x USRP-2901, Cables, Courseware	2.27
4	Low Power System Computing Lab	Arduino board	0.81
5	Optical Network Research Lab	Intellisuite MEMS Software	5.15
		Optical Spectrum Analyser	10.99
		Michleson Interferometer Comprising	0.58
		Nano Positioner	1.31
		Tunable Laser Module	7.46
6	Microwave & Optic Fiber Lab	Vector Network Analyzer – 18GHz	24.05
		IE3D Network package	3.77
		Antenna Measurement Trainer & Components	2.31
		Broad Band Horn Antenna _ JR 12	0.77
		RF Cables (5m, 1m & 1m)	1.17
		Wireless Digital Communication Training System	2.14
		Global Positioning System Kit	1.09
		MIC Bench & Components	3.37
7	Communication Lab	Spectrum Analyzer -1GHz	1.96
		Network Analyzer 1.5 GHz	10.47
8	PG Lab-2	CST Software	4.83
		Matlab 2015b	10.64
9	VLSI Lab	TANNER EDA (5 User)	2.9
		Hardware Individual Locks for Tanner Tool	1.0
		Xilinx-foundation ISE series software(25 User)	0.53
		Cadence University Bundle Fullsuite (20 User)	15.0
		ARM--9 Evaluation board(LPC3250),USB JTAG)	2.07
		DSP Starter kit	2.41
		DE2-115 FPGA Development kit	2.0
		Digital storage Oscilloscope	4.45

Department of Computer Science and Engineering

Sl. No.	Laboratory	Research Equipment	Qty	Cost in Rs. Lakh
1	SSN - CTS Open Source Lab	Acer Power PC with Intel Pentium Core 2 Duo E4700 @ 2.6 GHz Processor G31 Intel Chipset Motherboard 4GB (2x2GB) DDRII RAM, 160GB SATA HDD, DVD Writer On-board Graphics & Sound, Gigabit LAN PCI Express Slot, 2 x PCI Slots, 6 x USB Ports Acer PS/2 104 Keys Key Board, Acer PS/2 Optical Mouse, Linux Acer 18.5 Wide TFT Color Monitor	2	0.58
2		Acer Power PC with Intel Pentium Core 2 Duo E4700 @ 2.6 GHz Processor G31 Intel Chipset Motherboard 4GB (2x2GB) DDRII RAM, 160GB SATA HDD, On-board Graphics & Sound, Gigabit LAN PCI Express Slot, 2 x PCI Slots, 6 x USB Ports Acer PS/2 104 Keys Key Board, Acer PS/2 Optical Mouse, Linux Acer 18.5 Wide TFT Color Monitor	17	4.74
3		CISCO CE 500 – 24 Port 10/100 Mbps Switch & Passive Components	1	0.73
4		SERVER – IBM BLADECENTER S CHASIS WITH C14 2z950/1450W PSU, 20GB (1x2GB) DDR3 RAM, 4x300GB HDD, USB Keyboard and Mouse, THINKVISION L714 17 “ LCD Monitor, RACK – Netrack 17U 600/1000	1	7.7
5				
6	High Performance Computing Lab	1.86GHz Dualcore 512MB DDR, 80 GB SATA 18x DVD Writer, 15” Color Monitor, HCL 107 PS/2 Mechanical	16	5.21

		Keyboard, 3 Button Scroll Optical Mouse, 500 W Speaker with Mike		
7		Ethernet Routing Switch 3510-24T	1	0.9
8		Intel PD 2.8GHz, 1GB DDR2 x 2, 80 GB, 16x DVD Writer, 17" Color Monitor, HCL 107 Mech PS/2 Mech PS/2, Opt USB Mouse,	1	0.52
9		8GB DDR II RAM (68 x 2 GB)	68	0.95
10		has been installed		
11		1.86GHz Dualcore 512MB DDR, 80 GB SATA 18x DVD Writer, 15" Color Monitor, HCL 107 PS/2 Mechanical Keyboard, 3 Button Scroll Optical Mouse, 500 W Speaker with Mike	16	5.21

Department of Information Technology

Sl. No.	Laboratory	Research Equipment	Configuration	Cost in Rs. Lakhs
1	Research Lab	Desktop	Apple e-Mac 1.42GHZ, 160 GB Hard Disk, 512 MB RAM	2.98
2		Desktop	HP Compaq Pro 6305 SSF, AMD A8 3.2 GHZ, 8 GB DDR 3 RAM, 500 GB HDD	2.89
3		Desktop	Intel Pentium D 3.40 GHZ, 2 GB DDR II RAM, 80 GB HDD	0.67
4		Server	Intel Xeon 3.00Ghz 2 GB RAM, 80 GB HDD	2.1
5	TCAD Lab	Software	TCAD Software	7.43
6		Server	FujiStu 2xQuad Core Xeon 2.66Ghz 16GB RAM 2x160 GB Sata Harddisk 26 Inch LCD Monitor	4.99
7		Server	FujiStu 2x Intel Xeon E5649 2.53GHz 16GB RAM, SATA 2 500GB Hard Disk, Fujistu 22 inch LED monitor, NVIDA Quadro 600 1GB Display card	9.97
8	Speech Lab	Server	Processor – INTEL XEON E5506, 2.13 GHZ, RAM - 8GB X 4 - DBR3, HARD DISK - 600 GB X 2 – SATA,DVD	1.43

			Drive – SATA -DVD W/R, Monitor – HCL, LED 18.5" TFT, Mouse – 2BUHON Optical USB, Keyboard – 104 KEY USB, NIC – Onboard, Display Card – ON Board	
9		Desktop	HCL – PC Processor – INTEL CORE I5 2400, 3.10 GHZ, RAM - 4GB X 2 - DDR3, Hard Disk - 500 GB X 1 – SATA, DVD Drive – SATA - DVD W/R, Monitor – HCL, LED 18.5" TFT, MOUSE – 3BUHON Optical USB, Keyboard – 104 KEY USB, NIC – Onboard, Display CARD – ON Board, Sound Card – On Board	3.0

Department of Chemical Engineering

Sl. No.	Laboratory	Research Equipment	Cost in Rs. Lakh
1.	Technical Analysis Lab	Jasco UV Visible Spectrophotometer	4.52
2.		Rotary Evaporator	1.26
3.		Vibra Cell Ultrasonic Processor 750 W (VCX-750)	4.18
4.		Fume Hood	0.85
5.	Mechanical Operations Lab	Pulverizer	0.57
6.	Heat Transfer Lab	Single effect evaporator with mini boiler	0.59
7.		Horizontal test rig – Condenser	0.82
8.	Chemical Reaction Engineering Lab	RTD Studies in CSTR in Series	1.31
9.		Temperature dependent kinetics	0.53
10.		Double Beam Atomic Absorption Spectrophotometer	6.36
11.		Fluid Solid Catalytic Reactor	0.6
12.		RTD Studies in CSTR	0.69
13.		Orbital Shaking Incubator outer SS	0.99
14.		RTD studies in PFR	0.65
15.	Mass Transfer Lab	Experimental Water Cooling Tower	1.48
16.		York Scheibels Extraction Unit	2.16
17.		Rotary Drier	0.95
18.		Rotary Shaker – MT lab	0.61
19.	Process Control Lab	Flow level integrated process controller	1.44
20.		Flow controller – PC lab	0.97
21.		Flow controller – PC lab	1.13

22.		Level controller – PC lab	0.61
23.		Level controller – PC lab	0.64
24.		Pressure controller – PC lab	0.51
25.		Pressure controller – PC lab	0.66
26.		Control Valve Characteristics – PC lab	0.84
27.	Fluid Mechanics Lab	Centrifugal pump test rig	0.63
28.		Reciprocating pump	0.6
29.		Gear Pump test rig	0.6
30.	Environmental Lab	BOD Incubator	0.75
31.		Bio Reactor	0.97
32.		Laminar Air flow Horizontal	0.59
33.		FTIR system spectrometer	10.26
34.		High Performance Liquid chromatography	11.86
35.		Gas Chromatography	8.76
36.		Auto Clave	3.38
37.		Photo Reactor	0.99
38.		Refrigerated Circulating Bath	0.98
39.		Orbital Incubator shaker	0.98
40.		Bomb Colorimeter	0.78
41.		Junkers Gas Colorimeter	0.78
42.		Auto clave – Vertical	0.63
43.		Muffle Furnace	0.58
44.		Cooling Centrifuge	1.26
45.		Deep Freezer	1.0
46.		Spm Filter - Vacuum Pump	0.69
47.		High temperature Vacuum furnace with Quartz tube 100 mm ID and heating zone 300 mm length with temperature range above ambient to 1400 ⁰ C; combined with vacuum pump, 100 LPM maximum flow – HT lab	2.16
48.		Electronic Balance, 200 gm, 0.1 mg accuracy – CRE lab	0.59
49.		Gas Analyzer	0.69

Department of Biomedical Engineering

Sl. No.	Laboratory	Research Equipment	Cost in Rs. Lakh
1	Diagnostics and Therapeutic Lab	Medical simulator package – TENS, FES, Emotiv	2.52
		Electro Surgery Safety Analyzer	7.49
		Cube 3D Printer	1.51
		Mimics - FEA Module	5.87
2	Bio-medical Instrumentation Lab	RMS 32-ch EEG machine and EP –system	6.06

		Bio-radio basic kit	7.05
3	Medical Software Lab	Function generators(0-10)MHz -11 Nos.	1.32
		DSO (0-50) MHz – 6 Nos.	1.81
		MIMICS Base	10.41
		MIMICS- FEA Module and Cube 3D Printer	6.04
4	Pathology and Microbiology laboratory	Co2 Incubator	2.04
		Magnus Trinocular fluorescent Microscope	4.98

Department of Mechanical Engineering

Sl No	Laboratory	Research equipment	Cost (Rs. In lakh)
1	Manufacturing Lab	Table Top FSW Machine	1.69
2		Automated Attached for FSW machine	2.21
3		UTM with High Temperature Testing	8.84
4		Optical Microscope with Image Analysing Software	10.09
5		Stress corrosion test rig (C-Ring)	2.89
6		Pin-on-Disc Wear Tester	4.37
7		Miller Dynasty GTAW machine	5.05
8		Autolinear Attachment for GTAW machine	1.5
9		Vickers Hardness Testing Machine	1.34
10		MEMS development boards	1.54
11		Dynamometers (Turning, drilling and milling)	8.5
12	CAD Lab	ABAQUS software	8.5
13	Thermal Lab	Solar parabolic trough collector	2.9
14	Workshop	All purpose mixer	4.83
15		Pilot plant for vitrified products [Curing oven, Hydraulic press, High temperature furnace]	6.89
16		Honing machine	2.59
17		Super finishing attachment	2.66
18		Pilot plant facility for coated abrasives	18.25
19		Coated disc evaluation machine	5.14
20		Coated fabric size conversion machine	4.83
21	Research Lab	Ultrasound processor	5.98
22	Thermal lab	Computer interfaced single cylinder air cooled DI Diesel engine loaded with Eddy current Dynamometer and Data Acquisition	2.5
23	Energy lab	AVL Five Gas analyser and AVL smoke meter	4.5
24	Metrology lab	Surface roughness tester	1.68

Department of Civil Engineering

Sl. No.	Laboratory	Research Equipment	Cost in Rs. Lakh
1	Concrete and Highway Engineering Lab	Pan mixer, Oven for Geopolymerization (300°C capacity), Flow table for cement paste and mortar, SCC testing equipments, Accelerated Curing Tank, Jaw Crusher, Electrically operated Pulverizer	6.54
2	Environmental Engineering Lab	Refrigerated Universal Centrifuges, Orbital Shaker, Deep Freezer	4.6
3	Strength of Material Lab	Data Acquisition System	2.48

Department of Physics

Sl. No.	Laboratory	Research Equipment	Cost in Rs. Lakh
1	Luminescence	Fluorescence spectrophotometer (UV-Vis)	Donated by CLRI-Chennai
2	Luminescence	UV-Vis. Spectrophotometer	Donated by CLRI-Chennai
3	Luminescence -	Thermoluminescence Set-up	4.5
4	Optical Research and Networks Lab	Optical Spectrum Analyser (600nm-1700nm)	11.20
5	Optical Research and Networks Lab	Tunable ECL laser source (1520-1650nm)	7.2
6	Optical Research and Networks Lab	Broadband laser source (1480nm-1650nm)	1.2
7	Optical Research and Networks Lab	3 axis nanopositioner with sensors	1.1
8	Optical Research and Networks Lab	Michelson Interferometer set-up	1.012
9	Optical Research and Networks Lab	Intellisuite MEMS design suite	5.15
10	Optical Research and Networks Lab	Intellisuite MEMS design suite, Coventorware, L-Edit (Tanner), COMSOL Multiphysics-MEMS modules	Sponsored by NPMAS for SSN - NMDC centre
11	Sonic & Ultrasonic Lab, PSRC	Digital Storage Oscillator	0.67
12	Sonic & Ultrasonic Lab, PSRC	Ultrasonic Pulser/Receiver with probes	5.01
13	Sonic & Ultrasonic	Omnidirectional hydrophones and	1.7

	Lab, PSRC	needle hydrophone	
14	Sonic & Ultrasonic Lab, PSRC	Spin Coating unit	Donated
15	Sonic & Ultrasonic Lab, PSRC	Digital magnetic stirrer with hotplate	Donated
16	Sonic & Ultrasonic Lab, PSRC	IR heater	Donated
17	Crystal Growth Lab	Diamond wheel – Cutter	4.8
18	Crystal Growth Lab	Weighing balance	0.60
19	Crystal Growth Lab	Constant temperature bath (3)	2
20	Ceramic Technology Lab	Ball mill	8.0
21	Crystal Growth Lab	Bridgman facility 3nos	1.0
22	Crystal Growth Lab	TSSG facility 2	5.0

Department: Chemistry

Sl. No.	Laboratory	Research Equipment	Cost (in Rs. Lakh)
1	Material Synthesis Lab	Tube Furnace	2
		Calendaring Machine	4
2	Energy Storage Device Lab	Glove Box for Lithium Battery Fabrication	15
		Battery Cycling System	9
3	Photo Catalytic Lab	Photo Catalytic Reactor	0.75
		Total Carbon Analyser	8.5
		UV-Visible Spectrophotometer	2.6
		Hydrogen Gas Analyser	3

3.3.2 What are the institutional strategies for planning, upgrading and creating infrastructural facilities to meet the needs of researchers especially in the new and emerging areas of research?

To meet the needs of researchers especially in the new and emerging areas of research, the Institution continuously identifies and procures new equipment for research work and also submits proposals for getting MODROBS from AICTE. The institution has already procured a project worth Rs. 19.51 Lakh in 2013 and Rs.5.94 Lakh in 2015.

The Institution constantly encourages faculty to apply to various funding agencies like AICTE, DST, MNRE, NRB, AERB, IGCAR, NIOT, DIT, BRNS, etc. through their various schemes to establish research facilities through sanctioned funded projects.

In department budget allocation, funds have been allocated separately for R & D through which latest software and equipment can be procured to carry out the research.

Faculty and students are always encouraged to interact with industries and research institutes for exploring new avenues of collaborative research.

The Institution reviews the research progress of the researchers. If the progress is promising, funding is provided to them through internal funded project schemes.

Sophisticated instruments, modeling tools, data processing software, and modern equipment are purchased every year for upgrading and creating the research infrastructural facilities to meet the needs of new and emerging areas of research.

3.3.3 Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facilities? If 'yes', what are the instruments / facilities created during the last four years.

Organizations have supplied equipment for pursuing research in the campus. The institute was provided with three Danfoss Drives by Danfoss Industries for the Electrical Engineering Department, an entire lab with 15 high end computers given by Cognizant Technology Solutions for the CSE Department, WSN Test Bed components, Antenna Turn table with MAST and AD-08E Multi spectral camera were all procured under DST FIST. INTEL has sponsored a lab for the Department of ECE for doing Research. The equipment for PG labs have been procured with research in mind. The equipment that can possibly be listed under this head is indicated in Section 3.3.1.

3.3.4 What are the research facilities made available to the students and research scholars outside the campus / other research laboratories?

Research facilities available at Research Institutes, R & D organizations and industries are made available to our faculty, students and research scholars by entering MoUs for mutual benefit.

Institutional membership from the leading libraries like British Council Library, INDEST – AICTE Consortium Membership, DELNET – Developing Library Network, MALIBNET – Madras Library Network, Anna University – Industrial Association Scheme Membership etc., allow our faculty, students and research scholars to use these resources.

UG and PG students are encouraged to do their project work at Research organizations and Industries like IGCAR, ISRO, DANFOSS, BHEL, SAMEER etc.

Anna University recognized Ph.D. supervisors are permitted to carry out collaborative research work in Anna University, Chennai.

3.3.5 Provide details on the library/information resource center or any other facilities available specifically for the researchers?

The central library of the institution is fully computerized by automating the issue of books through RF ID and bio-metric equipment. The library has 35,068 titles (83,000 volumes) covering major areas of Science, Engineering and Management. The library has the following facilities for the faculty, students and research scholars:

Description	Details
Online Access	OPAC - to provide book search, book availability status, book renewal and reservation through campus Wi-Fi
Library Networking	INDEST – AICTE Consortium Membership
	DELNET – Developing Library Network
	MALIBNET – Madras Library Network
	Anna University – Industrial Association Scheme Membership and British Council Library Membership
Internet Facilities	Library members are able to connect to Wi-Fi from all areas inside the Library to access the subscribed online resources such as e-journals, e-books etc.
Scholarly journal subscription	National – 221; International - 77

Digital Library

IEL – Level 2 (unlimited user)	306 e-Journals 7073 IEEE Conference 1889 IEEE standards with all back files
ACM – Association for Computing Machinery	136 Journals
ASCE - American Society for Civil Engineering	36 Journals
ASME - American Society for Mechanical Engineering	29 Journals
ASTM - American Society of Testing and Materials	6 Journals with 13,000 Journals Articles
JGATE – Engineering	4532 Journals

Science Direct – Engineering + Computer Science	275 Journals
Science Direct – Chemical Engineering	30 Journals
Springer Link	586 Journals
McGraw-Hill e-book	321 books
JGATE – Management	4329 Journals
EBSCO Host– Management	1155 Journals
NPTEL Video	110 Numbers
NPTEL Web Courses	129 Numbers

3.3.6 What are the collaborative research facilities developed/created by the research institutes in the college. For ex. Laboratories, library, instruments, computers, new technology etc.

The collaborative research facilities developed/created are listed in Section 3.3.3.

3.4 Research Publications and Awards

3.4.1 Major research achievements of the staff and students

The details of Patents obtained and filed are given below:

Intellectual Property Rights Obtained

Sl. No.	Title	Inventors	Department	Number
1	System and method for automated handling of document processing workload	Dr. Sriram Kailasam	CSE	US 2012/0057191 A1
2	Dynamic pre-resolve charge recovery logic	Dr. V.S. Kanchana Bhaaskaran	ECE	Publication Date : 07/02/2014
3	A process for preparing bulk synthesis of fine particle single-phase battery grade S	Dr. Siluvai Michael	Chemistry	MY – 122753-A
4	An improved process for the preparation of lithiummanganese oxide useful as cathode material	Dr. Siluvai Michael	Chemistry	C01B0060021; C01B0060024
5	A process for the	Dr. Siluvai	Chemistry	C07D2330000

	preparation of composition useful for treatment of electrodeposited zinc nickel alloy to enhance corrosion resistance.	Michael		
6	Process for preparation of intermediaries of bendamustine	Dr. Davis Presley	Chemistry	WO 2012/007966 A2
7	Test strip for free chlorine analysis	Dr. K. Yamuna	Chemistry	US005491094A
8	Calorimetric test strips	Dr. K. Yamuna	Chemistry	US006541269A

Intellectual Property Rights Patents Filed

Sl. No.	Name of the faculty	Title of the patent	Year	Reference No.
1	Mohan Sha S., Nikil S., Nitin K.R. and Dr.V.S. Felix Enigo	Smart Mirror with Voice Control	2017	TEMP/E-1/15510/2017-CHE
2	Dr. Y.K. Sabapathy	Fabrication of Connecting Rods using Fibre Reinforced Plastics by Continual Winding under Tension	2016	201641035709
3	Kavitha S and Thyagarajan K.K	Multimodality medical image fusion with optimal parameter estimation in disease diagnosis	2016	2454/CHE/2015
4	Dr. B. S. Sreeja, Dr. S. Radha,	Compact Mushroom Shaped Multiband Antenna with slot loaded elliptical Microstrip and improved Performance	08.07.2016	201641023407
5	Dr.V.Rajini	Modular intelligent transformer	2016	E-2/1326/2016-CHE
6	Dr.K.Jayakumar	Semi-Automatic Brake Coupled Clutch For Manual Transmission System	17-11-2016-	201641039248-
7	Dr.B.S.Sreeja, Dr.S.Radha, C.Joshitha	Novel 3T head actuation mechanism with low actuation voltage for bistable switching mechanism	2015 - 2016	201641012220
8	Ms Esther Florence S, Dr K Malathi, Mr Vimal Samsingh R,	Method And Apparatus For Non-Destructive Testing Of Composites Using Planar Sensor	2015 - 2016	5338/CHE/2015
9	Mr. S. Ramprabhu, Dr.K.Malathi,	A Method and device for a passive Reconfigurable	2015 - 2016	5621/CHE/2015

	Mr. M. Balaji	Frequency Selective Surface		
10	Dr. Gulam Nabi Alsath, Dr. K. Malathi, Ms. L. Livya	A Device and Method to Fabricate Ultra-wideband Microstrip Grid Array Antenna (GAA)	2015 - 2016	5337/CHE/2015
11	Dr. Gulam Nabi Alsath, Dr. K. Malathi	Shared Aperture Multi-service Antenna for Automotive Communications	2014 - 2015	6413/CHE/2014
12	Esther Florence S, Dr. K Malathi, Vimal Samsingh R	Novel fully integrated multi-layer woven electro-textile patch antenna	2015 - 2016	5620/CHE/2015
13	Kanchana Rajaram, Chitra Babu. S.M. Sindhu	A System and Method for Secured Messaging among Web Services with Pluggable API's	2015	17/CHE/2015
14	D.Venkata Vara Prasad, Sathya Madhusudhanan & Suresh Jaganathan	uCLUST: A System & Method for Clustering Unstructured Big Data	2015	736/CHE/2015
15	Sathish Palaniappan, Naren T Kesh, Vidhya Lakshmi, Angel Deborah, Naveen. H.	Universally Compatible and Accessible, Software Controlled Expandable Home Automation System for Energy conservation and Differently Abled	2015	5729/CHE/2015
16	J. Suresh & Karthika Veeramani	A System and Method for Face Recognition using Regularized Discriminant Analysis	2014	01322/CHE/2014
17	J. Suresh & Priya Stephen	System and Method for Verifying Face/Objects using Linear Regression and Discriminant Methods	2014	01321/CHE/2014
18	Dr.Gulam Nabi Alsath, Dr.K.Malathi, Aswathi K Sarma, A.Henridass, Raviteja, Sangeetha	Mutual coupling reduction in MIMO Antenna with serpentine type structure resonator	2013 - 2014	2660/CHE/2014
19	Aswin V, Deepak S & Shivkanth B	Fuzzy Inference Model for Disease Diagnostics	2013	5373/CHE/2013
20	Dr.Gulam Nabi Alsath, Dr.K.Malathi, A.K.Shrivastav	Dual band notched dielectric resonator reflect array for C/X band	2012 - 2013	1374/CHE/2012
21	A. Srinivasan & J.	System and Method for	2012	889/CHE/2012A

	Suresh	Optimized Video Compression		
22	Mr.N.Prabagarane, Prasaanth M, Sabarish Karthik, Yuvika Ashwina	A method and apparatus for transmit preprocessing assisted joint VBLAST / STBC MIMO system	2009 - 2010	322/CHE/2010
23	Dr. Prita Nair and M. Renilkumar	Photonic crystal based tunable optical channel drop filter	2011	No.1559/CHE/2011
24	G. Anandha babu and P. Ramasamy	Growth of an efficient nonlinear optical $D - \pi - A - \pi - D$ type benzophenone derivative single crystal	2009	No. 1005/CHE/2009
25	Sathish Palaniappan, Naren T Kesh, Vidhya Lakshmi, Angel Deborah, Naveen. H.	Universally Compatible and Accessible, Software Controlled Expandable Home Automation System for Energy conservation and Differently Abled	26/10/2015	2015-2016
26	D.Venkata Vara Prasad, Sathya Madhusudhanan, Suresh Jaganathan	uCLUST: A System & Method for Clustering Unstructured Big Data	16/02/2015	2014-2015
27	Kanchana Rajaram, Chitra Babu, S.M. Sindhu	A System and Method for Secured Messaging among Web Services with Pluggable API's	12/01/2015	2014-2015
28	Aswin V, Deepak S, Shivkanth B	Fuzzy Inference Model for Disease Diagnostics	21/11/2013	2013-2014
29	J. Suresh, Priya Stephen	System and Method for Verifying Face/Objects using Linear Regression and Discriminant Methods	13/03/2014	2013-2014
30	J. Suresh, Karthika Veeramani	A System and Method for Face Recognition using Regularized Discriminant Analysis	13/03/2014	2013-2014
31	A. Srinivasan, J. Suresh	System and Method for Optimized Video Compression	09/03/2012 & 13/09/2013	2011-2012
32	Dr.V.Jaikumar	UV Curable acrylate and Metheacrylate Prepolymers, synthesis, characterization and Application	02-11-2015	5924/CHE/2015

33		UV curable bisresol Epoxy DI(Math) Acrylate prepolymers, synthesis, characterization and Application	24.02.2016	201641006428
34	Dr.K.Sathish Kumar	Dual delivery of gene and protein using poly-L-lysine and gold nanoparticles	29-01-2014	376/CHE/2014
35	S. Saravana Prakash, S. Pravin Kumar and S. Rajendiran	Multi stance smartphone support for microscopes	(SRU) 2015	6299/CHE/2015
36	Dr. G. Muneeswari, Nandita Viswanath and Vaishnavi Pakyala	Smart Heel for Women Safety	May 2016	201641015622
37	Dr. V.E.Annamalai Dr.K.Elangovan	Portable Micromachining Apparatus	05-09-2012	3657/CHE/2012
38	Mr. D. Ebenezer	Air inlet regulating device for fluid driven two stroke engines	06.11.2012	4646/CHE/2012
39	Dr.M.Suresh	Air conditioner cum auxiliary cooler with evaporative condenser	30.10.2013	4882/CHE/2013
40	Dr.M.Suresh	Multipurpose hand-held cooling cum cleaning device	30.10.2013	4883/CHE/2013
41	Dr. K. S. Vijay Sekar	Hybrid bumper system	03.12.2014	6062/CHE/2014

3.4.2 Does the Institute publish or partner in publication of research journal(s)? If ‘yes’, indicate the composition of the editorial board, publication policies and whether such publication is listed in any international database?

No.

3.4.3 Details of publications by the faculty and students:

The number of Journal papers and the books authored by the faculty & Research scholars of SSN during 2012-13 to 2016-17 is given below.

Dept.	Books	2012-13	2013-14	2014-15	2015-16	2016-17
EEE	2	57	61	106	78	66
ECE	4	39	61	62	91	57
CSE	8	85	48	44	38	27
IT	-	19	7	48	22	15

Chem.	3	28	10	33	49	32
BME	-	15	27	24	10	11
Mech.	13	20	16	36	125	75
Civil	-	2	1	10	12	10
S & H	12	34	24	30	92	60
MBA	2	12	4	5	11	12

The details of journal publications by the faculty of various departments during the year 2016-17 are given below:

Department: Electrical and Electronics Engineering

1. M. Venmathi and R. Ramaprabha, "Investigation on Fuzzy Logic Based Centralized Control in Four-Port SEPIC/ZETA bidirectional Converter for Photovoltaic Applications", International Journal on Advances in Electrical and Computer Engineering, Vol. 16, No. 1, pp. 53-60, 2016, (Print ISSN: 1582-7445, Online ISSN: 1844-7600), SJR Impact factor 0.26. (DOI: 10.4316/AECE.2016.01008).
2. G. Ramya and R. Ramaprabha, "Fuzzy logic controller for partial shaded photovoltaic array fed modular multilevel converter", IET Power Electronics, Vol. 9, No. 8, pp. 1694-1702, 2016, (Online ISSN 1755-4543; Print ISSN 1755-4535), SJR Impact factor 1.08. (DOI: 10.1049/iet-pel.2015.0737).
3. J. Anitha Roseline, M. SenthilKumaran, V. Rajini, "Generalized space vector control for current source inverters and rectifiers", Archives of Electrical Engineering. Volume 65, Issue 2, Pages 235–248, ISSN (Online) 2300-2506, DOI: 10.1515/aee-2016-0016, June 2016.
4. R.Seyezhai and M.S.Rajan, "Capacitor Voltage Balancing Control for Modular Multilevel Cascaded Inverter Based on Phase Shifted Pulse Width Modulation Technique", Advances and Natural Applied Science, 2016, pp.205-214.
5. R.Seyezhai, M.Sudhakaran, "Fault Identification and Diagnosis of Induction Motor Using Neural Networks", Middle-East Journal of Scientific Research 24 (6): pp.2009-2012, 2016. DOI: 10.5829/idosi.mejsr.2016.24.06.23585. ISSN 1990-9233.
6. Anuradha R, Anbuselvi M and Saravanan P, "Torque Ripple Minimisation Of BLDC Motor Using Vector Control Algorithm", International Journal of Emerging Technology in Computer Science & Electronics (IJETCSE) ISSN: 0976-1353 Volume 23, pp:94-97. Issue 2 – June 2016, India.
7. M.Tamilarasi and R.Seyezhai, "A review of optimization algorithms for the modeling of proton exchange membrane fuel cell", AIP Journal of renewable & Sustainable Energy, Vol.8, Issue 3, June 2016, pp.034301-1-04301-13. ISSN : 1941-7012.
8. R. Seyezhai and V. Aarthi (Passed out PG batch 2016), "Simulation and Implementation of AC-DC Interleaved Boost Converter With Voltage Multiplier For PHEV", ICTACT Journal On Microelectronics, July 2016. Volume: 02, Issue: 02, Pp.247256. ISSN: 2395-1680.
9. G.R.Venkatakrishnan, J. Mahadevan, R.Rengaraj, "Grey Wolf Optimizer For Economic Dispatch With Valve Point Loading", International Journal Of Advanced Engineering Technology (IJAET), Vol. 7, No. 3, pp. 158-163, July 2016.E ISSN:0976-3945

10. Saravanan P, Senthil Kumaran M and Arumugam R, "FPGA Based Speed Control of SRM with Optimized Switching Angles by Self Tuning", Circuits and Systems, vol. 7, pp: 1530-1545, July 2016. 2153-1285.
11. R.Seyezhai and M.Sudhakaran, "Modeling and Analysis of Variable Frequency Inverted Sine PWM Technique for a Hybrid Cascaded Multilevel Inverter", Journal of Circuits and Systems, July 2016, Vol.7, pp.2633-2650.
12. Chitravalavan R. Seyezhai, "Design and Experimentation of FPGA-Based Soft-Switched Interleaved Boost Converter for Telecommunication System Circuits and Systems," 7, July 2016, pp.2702-2711 ISSN : 2153-1285.
13. R.Seyezhai, and V.Chamundeeswari, "Comparative Analysis of Analog and Digital Controllers for Negative Output Superlift Luo Converter (NOSLC)", Circuits and Systems, 2016, 7, pp.1689-1700. doi.org/10.4236/cs.2016.78146. ISSN: 2153-1285.
14. Murugesan Kullán, Ranganath Muthu, Jebamalai Benny Mervin, Vijayenthiran Subramanian, "Design of DSTATCOM Controller for Compensating Unbalances" in Journal of Circuits and Systems, Vol.7, No.9 July 2016, PP. 2362-2372.
15. R.Deepalaxmi, C.Preethi, V.Preethi and R.Priyadharshini, "Design and development of prototype model of long duration impulse current generator" in International Journal of Advanced Scientific research and Management (IJASRM), Vol 1, Issue 6, PP 70-74, September 2016. [ISSN 2455-6378].
16. V.Rajini, W.Abithamemala, "Motor current signatures and their envelopes as tools for fault diagnosis", Intelligent Automation and soft computing, Taylor and Francis, ISSN: 1079-8587 (Print) 2326-005X (Online), DOI:10.1080/10798587.2016.1225338.
17. Vaishnavi D, Sundari E, Sangeetha T V, Shrinidhi S and Saravanan P, "Design and development of computational intelligence for enhanced adaptive cruise control using Arduino", Applied Mechanics and Materials, Vol.852, pp:782-787, ISSN: 1662-7482
18. Prashanth R, Sindhu S L, Veena S, Srilakshmi P S and Saravanan P, "Low cost battery operated vehicle using joystick control for physically challenged", Applied Mechanics and Materials, Vol.852, pp:788-793, ISSN: 1662-7482
19. Mahadevan J, Venkatakrishnan G R, Rengaraj R, "Differential evolution algorithm with parameter adaptation strategy for optimal design of hybrid renewable energy system", Journal of Electrical Engineering, Vol.16, 3rd Edition, pp. 419 - 429, 2016.
20. Siva Kumar A; Muthu Selvan N B, "Reduction of Source Current Harmonics in R and RL Load with Active Filter at Source End", Asian Journal of Research in Social Sciences and Humanities, Vol. 6, No. 10, pp. 298-310, October 2016. DOI:10.5958/2249-7315.2016.01015.7, ISSN 2249-7315.
21. A.BharathiSankar and R. Seyezhai, "Performance Analysis of Multilevel Inverter for BLDC drive application", Advances in Natural & Applied Sciences, 2016, special : 9 (7), pp.190-200, ISSN:1995-0772.
22. P.Priya, G.ShabbeerBasha, S.V.SujithNiranján and R. Seyezhai, "Investigation of SiC MOSFET Based Quadratic Boost Converter for Photovoltaic Applications", Int. Journal of Precious Engineering Research and Applications, IJPERA, ISSN : 2456-2734, Vol. 1, Issue 3, October 2016, pp.26-29.
23. S.Hemapriya, M.Sudhakaran and R.Seyezhai, "Implementation of Robust Industrial Machinery Predictive Maintenance and Control Using Modern

- Technology”, International Journal of Electrical Engineering, SSRG, 2016, pp.22-27. ISSN No: 2348- 8379.
24. R.Seyezhai and D.Umarani, “Study of Z-Source Inverter Impedance Networks Using 2ω Analysis for Photovoltaic Applications”, Applied Mechanics and Materials, Vol.852, October 2016, pp.867-874. ISBN-13, 978-3-03835-777-3.
 25. R.Seyezhai, K.Deepak, R.Gowtham, T.Hariharan and Manimaran, “Simulation and Implementation of e-cycle using BLDC drive”, International Journal of Advanced research in basic engineering, science & technology, Vol.2, Issue-10, October 2016, ISSN -2395-695X, pp.1-12.
 26. R. Ramaprabha, G. Ramya, U. Ashwini and A.H. FathimaHumaira, “Realization of a Photovoltaic Fed Sparse Alternating Current (AC)-Link Inverter”, The Journal of Engineering Research (TJER) (ISSN: 1726-6009), Vol. 13, No. 2, pp. 149-159, TJER 2016.
 27. R.Seyezhai and V.Chamundeeswari, “An Approach towards Pulse Data Transmission Using Modified Negative Luo Converter (MNLC) for Telecoms”, Circuits and Systems, 2016, 7, 2712-2728. ISSN:2153-1285.
 28. Thiagarajan V., “Comparative analysis of PWM techniques for Photovoltaic application with HERIC inverter” in Journal of Advances in Chemistry, Vol. 12, no. 16, pp. no. 4950-4955.
 29. Rajini V and Anoop J, "Large Signal Modeling of DC-DC Converter with Multiplier Cells for High Voltage Generation" World Applied Sciences Journal 34 (10): 1414-1421, 2016,ISSN 1818-4952, DOI: 10.5829/idosi.wasj.2016.1414.1421.
 30. Nivedhitha, T., Sahithya, S., Vaishnavi, G. and R. Seyezhai, “Investigation of High Gain Switched Capacitor DC-DC Converter For PV Applications”, International Journal of Current Research, Vol. 8, Issue, 11, November, 2016.(ISSN:0975-833X). pp:40448-40455.
 31. R.Seyezhai and S.Harika, “Analysis of Modulation strategies for two-stage Interleaved voltage source inverter for photovoltaic applications”, International Journal of Advanced research in basic engineering, science & technology, Vol2, Issue-11, November 2016. pp.1-12. ISSN -2395-695X.
 32. R.Seyezhai and R.Mahalakshmi, “Review of Integrated Power Factor Correction (PFC) Boost converter topologies for Telecommunication systems”, International Journal of Advanced research in basic engineering, science & technology Vol2, Issue-1, November 2016,,pp.13-23. ISSN -2395-695X.
 33. A.BharathiSankar and R. Seyezhai, titled “Implementation of adaptive fuzzy logic control based MPPT for photovoltaic based system”, International Journal of U,e-service,science and technology,Vol.9, No: 10, 2016,pp.103-122.
 34. U.Shajith Ali, “Z-source DC-DC Converter with Fuzzy Logic MPPT Control for Photovoltaic Applications", December 2016, Elsevier Energy Procedia, Vol.90, pp. 163-170. Scopus indexed, Impact factor: 0.378.
 35. R.Seyezhai and D.Umarani, “Modeling and Control of Quasi Z-source Cascaded H-bridge Multilevel Inverter for Grid Connected Photovoltaic Systems”, Energy Procedia, Elseveir, Vol.90, Dec.2016,pp.250-259. ISSN: 1876-6102.
 36. M.Praveenkumar, M.Sudhakaran and R.Seyezhai, “Kinect Sensor based Human Fall Detection System Using Skeleton Detection Algorithm International Journal of Electrical Engineering, SSRG, 2016, pp.22-27. ISSN No: 2348- 8379.
 37. M. Sudhakaran and R. Seyezhai, “A Review of Various Carrier PWM Techniques for Trinary Cascaded Multilevel Inverter”, Middle-East Journal of Scientific

- Research Vol.24, 2016, pp.81-89, DOI: 10.5829/idosi.mejsr.2016.24. ISSN 1990-9233.
38. A. InbaRexy and R. Seyezhai, "Investigation of Current Control Techniques of AC-DC Interleaved Boost PFC Converter", *Circuits and System*, 2016, Vol.7, pp. 307-326. ISSN:2153-1285.
 39. N. Hemalatha, R. Seyezhai, "Modified Diode Assisted Extended Boost Quasi Z-Source Inverter for PV Applications", *Circuits and System*, Vol.7, No: 10, 2016, pp.3271-3284. ISSN: 2153-1285.
 40. R.Seyezhai, V.J.Sudarshan, M.Sunil Kumar and S. Venkat BramaVignash, "Design and FPGA Control of Modular Multilevel Inverter for Photovoltaic Applications", *Elixir Elec. Engg*, 100 (2016) pp.43768 – 43773, ISSN 2229-712X.
 41. A. Sivakumar and N.B. MuthuSelvan, "Harmonic Analysis in Induction Motor Drive with Boost Converter", *International Journal of Printing, Packaging & Allied Sciences*, ISSN: 2320-4387, Volume: 4, Issue: 2, December, 2016.
 42. Augusteen and R.Rengaraj, "Economical Operation of Thermal Generator Involving Transmission Loss Using Noval Capra Optimization Algorithm", *Journal of Electrical Engineering*: Vol.16, No.4, 2016, pg.no.179-189.
 43. Johnson Uthayakumar.R, Natarajan S.P. and Ranganath Muthu, "Realization Investigation of Three Phase Seven Level Asymmetrical Inverter with Triangular Reference and Hybrid Carrier", *International Journal of Applied Engineering Research* ISSN 0973-4562, Volume 11, Number 3,pp 1942-1949 (2016).
 44. G. Ramya and R. Ramaprabha, "A review on design and control methods of modular multilevel converter", *International Journal of Power Electronics and Drive System (IJPEDS)*, Vol. 7, No. 3, pp. 857-865, 2016. (ISSN: 2088-8694) (DOI: <http://dx.doi.org/10.11591/ijpeds.v7.i3>)
 45. M. Venmathi and R. Ramaprabha, "Analysis of controllers for the dynamic response enhancement of the three-port full-bridge DC-DC converter interfacing photovoltaic system", *Int. J. Automation and Control*, Vol. 11, No. 1, 2017, pp. 67-88 (ISSN online: 1740-7524; ISSN print: 1740-7516).
 46. Leo Raju, Prithika Rani M, Sajna.G, Srinidhi.J, "Arduino based Autonomous Energy Management of a Micro-Grid using Multi Agent System", *International Journal of Control Theory and Applications (IJCTA)*.
 47. V. Krishnakumar, V. Kamaraj, C. AdrienPerianayagam, "An Integrated Drive for Two PMSMs Involved Automotive Applications and Development of Current Reference Expanded Two Arm Modulation Technique," *Circuits and Systems*, 7, 1794-1815.ISSN:2153-1285.
 48. V.Rajini," A novel control scheme to improve the spectral quality of a single-phase bridgeless boost rectifier",*International Journal of Power Electronics*, Vol. 8, No. 1, pp 52-67,2016, inderscience publishers, ISSN online: 1756-6398.
 49. R.Seyezhai and M.Sudharan "Performance Evaluation of Level Shift PWM Technique for an Cascaded Multilevel Inverter", *International Journal of Printing, Packaging & Allied Sciences*, Vol.4(3), pp. 2070-2082 Dec.2016. ISSN : 2320-4387.
 50. M. Venmathi and R. Ramaprabha, "Implementation of zero voltage switched SEPIC/ZETA bidirectional converter for low power applications using FPGA", *Turkish Journal of Electrical Engineering & Computer Sciences*, Vol. 25, pp. 319-336, 2017 (ISSN online: 1303-6203; 1300-0632) Scopus Index 0.339(DOI: doi:10.3906/elk-1505-81).

51. V.S.Nagarajan, M.Balaji and V.Kamaraj, "Design optimization of ferrite assisted synchronous reluctance motor using multi-objective differential evolution algorithm", COMPEL - The international journal for computation and mathematics in electrical and electronic engineering, 36(1), 2017, pp. 219–239. doi: 10.1108/compel-06-2016-0253.
52. V.S.Nagarajan, V.Kamaraj and M.Balaji, "Effect of Geometrical Parameters on Optimal Design of Synchronous Reluctance Motor" in Journal of Magnetics, Vol.21 No.4, 2016, 544-553.
53. M.Karthikeyan and R.Rengaraj, "Mutual Impedance Based Protection Scheme for Series Compensated Transmission Line", International Journal of Control Theory and Applications, Vol.10 No.2, 2017, PP.165-181.
54. M.Karthikeyan and R.Rengaraj, "Fault Classification and Location of an UPFC-Compensated Transmission Line Using Extreme Learning Machine", International Journal of Control Theory and Applications, Vol.10, No.2, 2017, pp.183-194.
55. Rajini V and Alagudheeraj, "Center Clamped Forward Converter for High Current Applications", J. Comput. Theor. Nanosci. 14, 395–402 (2017), ISSN: 1546-1955 (Print): EISSN: 1546-1963.
56. V. Rajini and W. AbithaMemala, "Wavelet Based Induction Motor Fault Diagnosis Using Zero Sequence Current", J. Comput. Theor. Nanosci. 14, 411–420 (2017) ISSN: 1546-1955 (Print): EISSN: 1546-1963.
57. V.Rajini and W. Margaret Amutha, "A novel self powered wireless sensed network", International Journal of Computer Networks and Wireless Communications (IJCNCW), ISSN: 2250-3501, Vol.7, No 1, Jan-Feb 2017.
58. Thiagarajan V., "Modified Nine Level Inverter with Reduced Number of Switches" in "International Journal of Control Theory and Applications", ISSN : 0974-5572, Vol.10, No. 2 (2017), PP 217-225.
59. S. Iyappan and R. Ramaprabha, "Design and Implementation of Brushless DC Motor based Solar Water Pumping System for Agriculture using Arduino UNO", International Journal of Engineering and Technology (IJET), ISSN (Print): 2319-8613 ISSN (Online) : 0975-4024, Vol. 9, No. 1, pp. 224-232, Feb 2015 (DOI: 10.21817/ijet/2017/v9i1/170901424).
60. Thiagarajan V., Gokul Kumar V, Karthikeyan B, Naveen Kumar E and Nikilaesh A, "Tesla Turbine Powered Solar Refrigerator" in International Journal of Recent Trends in Electrical and Electronics Engineering, ISSN : 2231-6612, Vol.04, No. 2 (2017), pp. 50-55.
61. V.Krishnakumar, V.Kamaraj and S.Jeevananthan, "Parallel Fuzzy Logic Controllers for Independent Control of Two Permanent Magnet Synchronous Motors fed by a Five Leg Inverter for Electric Vehicles, vol 17(1)-24, pp: 1-16.
62. V.Krishnakumar, V.Kamaraj and C. Adrien Perianayagam, "Development of New Modulation Technique to Combined Drive for Dual PMSMs applicable in automotive application Journal of Electrical Engineering, vol 17(1)-43, pp: 1-12.
63. A. Sivakumar and N.B. MuthuSelvan, "Reduction of source current harmonics in ANN controlled induction motor", in Alexandria Engineering Journal, Elsevier, Available online 19 April 2017. <http://dx.doi.org/10.1016/j.aej.2017.03.048>.
64. K. Kanchana and V.Rajini, "Experimental Design of Low Loss Filter to mitigate Overvoltage for Long Cable Fed Induction Motor Drive", International journal of electrical engg, vol 17, No1, 2017, ISSN no 1582- 4594.

65. R. Kavitha, V.Rajini and S.Krishnaveni, "Analysis of Front-End High Gain DC-DC Converters for Pulsed Electric Field Application", International Journal of Electrical and Electronics Engineering (SSRG-IJEEE), Volume 4 Issue-3, 2017, pp 14-19, ISSN: 2348-8379.

National Journal

1. Rajini V and Abhithamemala," Parametric Method based Inter-Turn Incipient Short Circuit Stator Fault Detection of Induction Motor"Indian Journal of Science and Technology, Vol 9(43), DOI: 10.17485/ijst/2016/v9i43/104668, November 2016.

Department: Biomedical Engineering

1. Meenachi. P and Subashini. R, "Synthesis, characterization and performance of hydroxyapatite coated 316L stainless steel", Journal of Chemical and Pharmaceutical Research, Vol. 8, Issue 3, 2016, pp. 340-347.
2. Nirmala. K, Venkateswaran. N and Vinoth Kumar. C, "Fractal Feature based SVM Classification of Glaucomatous Image using PCA and Gabor Filter", International Journal of Advanced Engineering and Technology, Vol. 7, Issue 1, Jan-March,2016, pp. 156-160.
3. Sathish. R, Nithya. R, Roshini. N and Nivethithaa. S, "Assistive Device for Locomotion of Visually Impaired and Physically Challenged People", Applied Mechanics and Materials, Vol. 852, October 2016, pp. 806-811.
4. Nirmala. K, Venkateswaran. N and Vinoth Kumar. C, "Kernel SVM Classifier for Detection of Glaucoma Using LBP Based Fractal Features", Asian Journal of Information Technology, Vol. 15, Issue 15, October, 2016, pp. 2702-2708.
5. Pramila and Mahesh Veezhinathan, "Multivariate adaptive regression splines based prediction of peak expiratory flow with spirometric data", Technology and Healthcare, Vol. 24, 2016, pp. S253-S260.
6. Angel Jenifer. R, Nithya. R and Dhanalakshmi. M, "Smart Travelling Guide For Visually Challenged", International Journal of Scientific Engineering and Technology, Vol. 5, Issue 7, 2016, pp. 383-385.
7. Subashini. R, Namasivaya Naveen. S, Loganathan. V, Mohammed Ikram. A and Meenachi. P, "Performance study of silver coated 316L stainless steel for orthopedic applications", Transylvanian Review, Vol 24, Issue 10, 2016, pp. 1914-1925.
8. Nirmala. K and Venkateswaran. N, "Local Binary Pattern Features based Detection of Glaucoma Using Support Vector Machine Classifier", Journal of Medical Imaging and Health Informatics, Vol. 6, Issue 6, October,2016, pp. 1370-1378.
9. Geethanjali. B, Adalarasu. K, Jagannath. M, and Rajasekaran. R, "Enhancement of task performance aided by music", Current Science, Vol. 111, Issue 11, December, 2016, pp. 1794-4801.
10. Subramanian. M, Geethanjali. B, Seshadri. N G, Venkat. B and Vijayalakshmi. R, "Visualization of Brain Activation during Attention-Demanding Tasks Using Cognitive Signal Processing", International Journal of Cognitive Informatics and Natural Intelligence, Vol 11, Issue 1, January 2017, pp. 60-81.

11. Geethanjali. B, Adalarasu. K, Hemaprabha. A, Kumar. S P and Rajasekaran. R, "Emotion analysis using SAM (Self-Assessment Manikin) scale", Biomedical Research, Special Issue A Complex world Of Neuroscience.

Department: Chemical Engineering

1. Karthiga Devi. G, Sathish Kumar. K, Parthiban. R and Kalishwaralal. K, "An insight study on HPTLC fingerprinting of *Mukia maderaspatna*: mechanism of bioactive constituents in metal nanoparticle synthesis and its activity against human pathogens" Microbial Pathogenesis Vol. 102, pp. 120-132, 2017.10.1016/j.micpath.2016.11.026
2. Tharaneedharan. V, Senthil Kumar. P, Saravanan. A, Ravikumar. C and Jaikumar. V "Prediction and interpretation of adsorption parameters for the sequestration of methylene blue dye from aqueous solution using microwave assisted corncob activated carbon" Sustainable Materials and Technologies, Vol. 11, pp. 1-11, 2017. 10.1016/j.susmat.2016.11.001
3. Jagannathan Krishnan, Anthony Arvind Kishore, Athreya Suresh, Madhumeetha. B and Gnana Prakash. D, "Effect of pH, in127holera127sese and initial dye concentration on the removal of azo dye mixture under aerobic conditions" International Biodeterioration & Biodegradation, (Article in press) 2016. [10.1016/j.ibiod.2016.11.024](https://doi.org/10.1016/j.ibiod.2016.11.024)
4. Ravi Rajamanickam, Kauselya and Kaliyamoorthi, Narendiran Ramachandran, Divya Baskaran and Jagannathan Krishnan "Batch biodegradation of toluene by mixed microbial consortia and its kinetics" International Biodeterioration & Biodegradation, 2016. [10.1016/j.ibiod.2016.11.014](https://doi.org/10.1016/j.ibiod.2016.11.014)
5. Nithya. K, Asha Sathish, Senthil Kumar. P and Ramachandran. T "Biosorption of hexavalent chromium from aqueous solution using raw and acid treated biosorbent prepared from *Lantana camara* fruit" Desalination and Water Treatment Vo.57 (52), pp. 25097-25113, 2016 10.1080/19443994.2016.1145605
6. Suganya. S, Kayalvizhi. K, Senthil Kumar. P, Saravanan. A and Vinoth Kumar. "Biosorption of Pb(II), Ni(II) and Cr(VI) ions from aqueous solution using *Rhizoclonium tortuosum*: Extended application to nickel plating industrial wastewater" Desalination and Water Treatment Vo.57 (52), pp. 25114-5139, 2016 10.1080/19443994.2016.1149111
7. Suganya. S, Saravanan. A, Senthil Kumar. P, Yashwanthraj. M, Sundar rajan. P and Kayalvizhi. K "Sequestration of Pb(II) and Ni(II) ions from aqueous solution using microalga *Rhizoclonium hookeri*: Adsorption thermodynamics, kinetics and equilibrium studies" Journal of Water Reuse and Desalination Vol. 7, pp. 214-227, 201710.2166/wrd.2016.200
8. Senthil Kumar. P, Saravanan. A, Sundar rajan. P and Yashwanthraj. M "Nano scale zero-valent iron impregnated agricultural waste as an effective biosorbent for the removal of heavy metal ions from wastewater" Textiles and Clothing Sustainability Vol. 2 (3), pp. 1-11, 2016 10.1186/s40689-016-0014-5
9. Karthiga Devi. G, Senthil Kumar. P and Sathish Kumar. K "Green synthesis of novel silver nanocomposite hydrogel based on sodium alginate as an efficient biosorbent for the dye wastewater treatment: Prediction of isotherm and kinetic parameters" Desalination and Water Treatment Vo.57 (57), pp. 27686-27699, 2016 10.1080/19443994.2016.1178178
10. Saravanan. A, Senthil Kumar. P, Sundar rajan. P, Abishek S Narayan and Abhishek Dutta "Influence of ultrasonication on preparation of novel material for

- heavy metal removal from water/Wastewater” Korean Journal of Chemical Engineering Vol. 33 (9), pp. 2716-2731, 2016 10.1007/s11814-016-0109-3
11. Jothirani. R, Senthil Kumar. P, Saravanan. A, Abishek S Narayan and Abhishek Dutta “Ultrasonic modified corn pith for the sequestration of dye from aqueous solution” Journal of Industrial and Engineering Chemistry Vol. 39, pp. 162-175, 2016 10.1016/j.jiec.2016.05.024
 12. Saravanan. A, Senthil Kumar. P, Karthiga Devi. G and Arumugam. T “Synthesis and characterization of metallic nanoparticles impregnated onto activated carbon using leaf extract of *Mukia maderasapatna*: Evaluation of antimicrobial activities” Microbial Pathogenesis Vol. 97, pp. 198-203 and 2016 10.1016/j.micpath.2016.06.019
 13. Vinni Novi. T, Vinoth Kumar. V, Senthil Kumar. P, Charles Christy, Sundar Sai Lavanyaa, Dhanya Vishnu, Saravanan. A, Vasanth Kumar. V and Sivanesan. S “Review on nano adsorbents: A solution for heavy metal removal from wastewater” IET Nanobiotechnology Vol. 11, pp. 213-224 2017 10.1049/iet-nbt.2015.0114
 14. Yaashikaa. P.R, Saravanan. A and Senthil Kumar. P “Isolation and Identification of *Vibrio cholerae* and *Vibrio parahaemolyticus* from prawn (*Penaeus monodon*) seafood : Preservation strategies” Microbial Pathogenesis Vol. 99, pp. 5-13 2016 10.1016/j.micpath.2016.07.014
 15. Anitha. T, Senthil Kumar. P and Sathish Kumar. K “Synthesis of nano-sized chitosan blended Polyvinyl alcohol for the removal of Eosin Yellow dye from aqueous solution” Journal of Water Process Engineering Vol. 13, pp. 127-136 2016 10.1016/j.jwpe.2016.08.003
 16. Gunasundari. E and Senthil Kumar. P “Higher adsorption capacity of *Spirulina platensis* alga for Cr(VI) ions removal : Parameter optimization, equilibrium, kinetic and thermodynamic predictions” IET Nanobiotechnology Vol. 11, pp. 317-328 2017 10.1049/iet-nbt.2016.0121
 17. Gerard Neeraj, Santhana Krishnan, Senthil Kumar. P, Hubert Cabana and Vinoth Kumar. V “Adsorptive potential of dispersible chitosan coated iron-oxide nanocomposites towards the elimination of arsenic from aqueous solution” Process Safety and Environmental Protection Vol. 104, pp. 185-195, 2016 10.1016/j.psep.2016.09.006
 18. Senthil Kumar. P Vaibhav. K.N, Shiv Rekhi and Akshay Thyagarajan “Removal of turbidity from washing machine discharge using *Strychnos Potatorum* seeds: Parameter optimization and mechanism prediction” Resource Efficient Technologies, Vol. 2, pp. S171-S176 2016 10.1016/j.reffit.2016.09.006
 19. Dhatchanamoorthy. N, Arumugam. T and Senthil Kumar. P “Rediscovery of *Crotalaria rigida* (Leguminosae)-Rare and endemic legume of Southern India, Tamil Nadu” Pytotaxa, Vol. 278 (3), pp. 297-300, 2016 10.11646/phytotaxa.278.3.11
 20. Femina Carolin. C, Saravanan. A, Senthil Kumar. P, Sundar rajan. P and Vinoth Kumar. V “Surface adsorption of poisonous Pb(II) ions from water using chitosan functionalized magnetic nanoparticles” IET Nanobiotechnology (Article in press) 2016 10.1049/iet-nbt.2016.0166
 21. Arumugam. T, Senthil Kumar. P and Gopinath. K.P “HPTLC fingerprint profile, in vitro antioxidant and evaluation of antimicrobial compound produced from *Brevibacillus brevis*-EGS9 against multidrug resistant *Staphylococcus aureus*” Microbial Pathogenesis Vol.102, pp. 166-172

- 2017 10.1016/j.micpath.2016.12.002
22. Sathya Selva Bala. V Senthil Kumar. P, Dinesh Kirupha. S and Sivanesan. S “Application of β -MnO₂ Nanorods as catalyst in single step production of biodiesel from Palm oil” *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects* Vol. 38 (14), pp. 2104-2110, 2016 10.1080/15567036.2010.516318
 23. Chitra. B and Sathish Kumar. K “Heat transfer enhancement using single base and double base nanofluids” *Journal of Molecular Liquids* Vol. 221, pp. 1128–1132 2016 10.1016/j.molliq.2016.06.084
 24. Josephin Alex, Dhanalakshmi. J and Ambedkar. B “Experimental investigation on rice husk ash as cement replacement on concrete production” *Construction and Building Materials* Vol. 127, pp. 353–362 2016 10.1016/j.conbuildmat.2016.09.150
 25. Badri Narayan. R, Goutham. R, Srikanth. B and Gopinath.K.P “A novel nano-sized calcium hydroxide catalyst prepared from clam shells for the photodegradation of methyl red dye” *Journal of Environmental Chemical Engineering* (Article in press) 2016 10.1016/j.jece.2016.12.004
 26. Ravikumar. C, Senthil Kumar. P, Subhashni. S.K, Tejaswini. P.V. and Varshini. V “Microwave assisted fast pyrolysis of corn cob, corn stover, saw dust and rice straw: Experimental investigation on bio-oil yield and high heating values” *Sustainable Materials and Technologies* Vol.11, pp. 19-27 2017 10.1016/j.susmat.2016.12.003
 27. Suganya. S, Senthil Kumar. P, Saravanan. A, Sundar rajan. P and Ravikumar. C “Computation of adsorption parameters for the removal of dye from wastewater by microwave assisted sawdust: Theoretical and experimental analysis” *Environmental Toxicology and Pharmacology* Vol.50, pp. 45-57 2017 10.1016/j.etap.2017.01.014
 28. Anish Kumar. K, Senthil Kumar. P, Sai Madhusudanan, Vignesh Pasupathy, Vignesh. P.R and Sankaranarayanan. A. R “A simplified model for evaluating best biodiesel production method: Fuzzy analytic hierarchy process approach” *Sustainable Materials and Technologies* Vol.12, pp. 18-22 2017 10.1016/j.susmat.2017.03.002
 29. Arumugam. T, Senthil Kumar. P, Kameshwar. R and Prapanchana. K “Screening of novel actinobacteria and characterization of the potential isolates from mangrove sediment of south coastal India” *Microbial Pathogenesis* Vol. 107, pp. 225-233 2017 10.1016/j.micpath.2017.03.035
 30. Gaurav Sharma, Zeid Abdullah Allothman, Amit Kumar, Shweta Sharma, Senthil Kumar. P and Naushad, Mu. “Fabrication and characterization of a nanocomposite hydrogel for combined photocatalytic degradation of a mixture of malachite green and fast green dye” *Nanotechnology for Environmental Engineering*, Vol. 2 (4), pp. 1-7, 2017 10.1007/s41204-017-0014-y
 31. Saravanan. A, Senthil Kumar. P and Yashwanthraj. M “Sequestration of toxic Cr(VI) ions from industrial wastewater using waste biomass: A review” *Desalination and Water Treatment* Vol.68, pp. 245-266 2017 10.5004/dwt.2017.20322
 32. Saravanan. A, Senthil Kumar. P, Femina Carolin. C and Sivanesan. S, “Enhanced adsorption capacity of biomass through ultrasonication for the removal of toxic cadmium ions from aquatic system : Temperature influence on isotherms and

kinetics” Journal of Hazardous, Toxic, and Radioactive Waste 2016
10.1061/(ASCE)HZ.2153-5515.0000355

Department: Civil Engineering

1. Ramana Gopal. S, “An Experimental Study on FRC Infilled Steel Tubular Columns under Eccentric Loading”, KSCE Journal of Civil Engineering, Vol. 21, Issue 3, March 2017, pp. 923-927.
2. Sabapathy. Y.K, Yeshwant Kumar. A, Prathulya. V and Prashaanth. B, “Strength Properties of Coated E-Glass Fibres in Concrete”, Gradevinar, Vol. 68, Issue 9, September 2016, pp. 697-703.
3. Mahalingam. B, Nagamani. K, Kannan L.S, Haneefa. K.M and Bahurudeen. A, “Assessment of Hardened Characteristics of Raw Fly Ash Blended Self-Compacting Concrete”, Perspectives in Science, Vol. 8, September 2016, pp.709-711.
4. Manoharan. R, Rajkumar. R and Surya Teja. A, “Study on Compressive Strength Characteristics of Spherical Hollow Core Cement Concrete Blocks using Ferro Sand (Copper Slag)”, Ahead- International Journal of Recent Research Review, Vol. 1, Issue 3, September 2016, pp.72-77.
5. Nirmala. R, Rajkumar. R, Surya Teja. A and Vignesh Bharathy. K, “Experimental and Theoretical Studies on UPVC Pipe Buried in Cohesionless Backfill”, International Journal of Advanced Engineering Technology, Vol. 7, Issue 3, July-September 2016, pp. 122-125.
6. Rajkumar. R, Poornima. R., Sharon. V and Suresh Kumar. S, “Prediction of Failures in Buildings using Sensors”, International Journal of Engineering Sciences and Research, Vol. 5, Issue 7, July 2016, pp. 694-699.
7. Muthulingam. S, “Gaussian Descriptions of Corrosion Initiation in Steel Bars of Fly Ash Concrete Elements”, Structure and Infrastructure Engineering, December 2016, pp.1-19.
8. Muthulingam. S, “Effects of Rebar on Chloride Ingress in Steel Reinforced Concrete Components”, Journal of Structural Engineering, Vol. 43, No. 2, June-July 2016, pp. 135-149.
9. Sangeetha. P, Prashaanth. V, Srivatsan. D, Venkatesh. S and Srinivas. K, “Fatigue Behaviour of Metals under Various Surface Finishes”, IOSR Journal of Mechanical and Civil Engineering, Vol. 13, Issue 5, September-October 2016, pp. 115-120.
10. Sangeetha. P and Senthil. R, “A Study on Ultimate Behaviour of Composite Space Truss”, KSCE Journal of Civil Engineering, Vol. 21, Issue 3, March 2017, pp. 950-954.

Department: Computer Science & Engineering

1. S. Kavitha, Vijay V, Saketh A B., “Matrix Sort - A Parallelizable Sorting Algorithm”, International Journal of Computer Applications, Vol. 143(9), June 2016, pp.1-6.
2. An Innovative Cloud Frame work for Tracking and Monitoring Tangible Assets in a Smarter Campus Using RFID ” in Asian Journal of Information Technology, Vol 15(11), 2016, pp. 1713-1722.

3. J. Kavitha, T. T. Mirnalinee, "Gallery Scaling For Efficient Pose Invariant Face Recognition", International Journal of Advanced Engineering Technology, Vol.7(2), June 2016, pp.1173-1177.
4. Sivasankari.S, Shomona Gracia Jacob "A Novel Semi-Automated Ontology Construction Framework (SOCF) for Psoriasis Detection: Pioneering the Psoriasis Risk Assessment Remedy (PRAR) Database, in Studies in Informatics and Control, (IF:0.723), Vol.25(2), pp.237-244.
5. Sivasankari.S, Shomona Gracia Jacob "A Novel Semi-Automated Ontology Construction Framework (SOCF) for Psoriasis Detection: Pioneering the Psoriasis Risk Assessment Remedy (PRAR) Database, in Studies in Informatics and Control, Vol.25(2), pp.237-244.
6. Ajay, Ajay Venketesh, Shomona Gracia Jacob, "Prediction of Credit-Card Defaulters: A Comparative Study on Performance of Classifiers", International Journal of Computer Applications, Vol.45(7), June, 2016, pp.36-41.
7. Keerthana S and Balasubramanian V, "Secured Storage through Remote Data Auditing", International Journal on Recent and Innovation Trends in Computing and Communication, Vol.4(6), June 2016, pp.132-135.
8. V. Ajay, S. Shivaranjani, S.L. Azlagiavanan and R. Priyadharsini, "An Efficient Exemplar Based Inpainting and Super Resolution Algorithm for Images", Middle-East Journal of Scientific Research, Vol.24 (9), 2016, pp.2878-2885.
9. Sheerazuddin S, Sriram K, "Identifying Conflicting Routes in Control Table of Indian Railways Interlocking System using NuSMV", International Journal of Computer Applications, Vol.146(7), July 2016, pp.1-6.
10. Saritha M, Bharathy M. A and Dhivya R, "Test Paper Generation System using Multi Agents", Indian Journal of Science and Technology, Vol.9(26), July 2016, pp.1- 6.
11. Ramanujam R, Sheerazuddin S, "Realizable Logics for Web Service Choreography", Journal of Logical and Algebraic Methods in Programming, Vol.5(1), August 2016, pp.759-781.
12. Beulah, A., and BK Divya Bharathi. "Lumbar Spine Classification using Pyramidal Histogram of Oriented Gradients." Indian Journal of Science and Technology Vol.9(32), August 2016, pp:1-5.
13. Sivasankari S and Shomona Gracia Jacob, "Investigation on the Performance of Classifiers in Prediction of Erythematous-Squamous Disease, An Automated Ontology Learning (AOL) Methodology", Middle East Journal of Scientific Research, Vol.24(8), August, 2016, pp.2567-2576.
14. Vignesh Gokul, Parinitha Kannan, Sharath Kumar, Shomona GJ, "Deep Q - Learning for Home Automation", International Journal of Computer Applications, Vol.152(6), August, 2016, pp.1-5.
15. B. Hariharan, R. Krithivasan and V.S. Felix Enigo, "Data Visualization Tools – A case study", International Journal of Computer Science and Information Security, Vol.14(9), September 2016, pp.834 - 838.
16. S.Kavitha, B.Bharathi, K.MohanaPriya, S.MohanaPriya and V.C. NithusSushmy, "Optimal feature set selection for brain tumor classification using Genetic Algorithm with Support Vector Machine and Decision Tree", Asian Journal of Research in Social Sciences and Humanities, Vol. 6(9), September 2016, pp: 660-670.

17. B. Hariharan, R. Krithivasan, Angel Deborah, "Prediction of Secondary School Students' Alcohol Addiction using Random Forest", International Journal of Computer Applications, Vol.149(6), September 2016, pp.21-25.
18. Madheswari.K., Venkateswaran N, "Swarm Intelligence based Optimization in Thermal Image Fusion using Dual Tree Discrete Wavelet Transform " submitted to QIRT journal (Thomson Reuters IF: 1.200), September-19 2016, pp.1-20. (Online first)
19. S. Savitha and K. R. Sarath Chandran, "Energy Efficient Reconfigurable Architecture for Motion Estimation in Video Coding," Vol. 9(39), October 2016, pp.1-6.
20. Krithika N, Azhalagiavannan, Aniruth, Shomona GJ, "A Comparative Study on the Performance of Feature Selection Algorithms in the Prediction of Down's Syndrome in Mice Models Using Protein Expression Levels", Middle East Journal of Scientific Research, Vol.24(9), October, 2016, pp.2952-2956.
21. Madheswari.K., Venkateswaran N, " An Optimal Weighted Averaging Fusion Strategy for Thermal and Visible Images using Dual Tree Discrete Wavelet Transform and Particle Swarm Optimization", Multimedia tools and applications Springer, pp. 1-22, October 4, 2016 (First online) (Thomson Reuters indexed, IF:1.331).
22. Aishwarya Sundararajan Balasubramanian V, Abishek Ravichandran, Performance Comparison for Mining Large Data from the Internet and Learning using ID3 Algorithm in a Docker versus Virtual Machine Environment, International Journal of Computer Applications, Vol: 153(7), November 2016, pp. 18-22.
23. Beulah, A. "Human Spine Structure Localization on MRI–A Survey", Indian Journal of Science and Technology Vol.9(42), November 2016,), pp.1-4.
24. Abhinaya A, Nandhini priya N, Vanathi M, Monica R, Chamundeswari A, "Resolving Team Selection in Agile Development using NSGA-II Algorithm", presented in 3rd International Conference on recent development in Science, Engineering and Technology, CSI transactions on ICT, Springer, 2016.
25. Lekshmi K., Ruba Soundar K., "Segmentation of hepatocellular carcinoma and dysplastic liver tumors in histopathology images using area based adaptive expectation maximization", Multimedia tools and applications (Springer) (Thomson reuters indexed, IF:1.331), pp. 1-22.
26. K.Sriraghav, R.Vijayaraghavan, S,Shriram, Shomona Gracia Jacob, Trasaction Overhead Reduction by Server Localization in Bank Database Management Systems, International Journal of Computer Applications, Vol.158(3), January 2017, pp.11-16.
27. Shomona Gracia Jacob, R.Geetha Ramani, Software Defect Prediction in Large Space Systems through Hybrid Feature Selection and Classification, International Arab Journal of Information Technology, Vol.14(2), 2017.
28. Nancy. P, R.Geetha Ramani, Shomona Gracia Jacob, "Explorations on Influential node Identification and Gender Prediction in Dolphin Network through Social Network Analysis", Asian Journal of Research in Social Sciences and Humanities, Vol.7(2), February, 2017, pp.331-352.

Department: Electronics & Communication Engineering

1. AashaNandhini S, Radha S, "Efficient CS based Security Approach for Video Surveillance Application in WMSN", Elsevier's Computers and Electrical Engineering, Published Online, 2017,
2. AashaNandhini S, Radha S, R. Kishore, "Efficient Compressed Sensing based Object Detection System for Video surveillance application in WMSN" Springer's Multimedia Tools and Applications, Published Online, 2017, pp 1-21.
3. Florence GnanaPoovathy, and S. Radha, "Efficient reconstruction of compressively sensed images and videos using non-iterative method", Journal of Electronics and Communications, Elsevier, Jan 2017, Vol. No. 73, pp. 89 -97.
4. Florence GnanaPoovathy, J, Radha, S, 'Noise performance of non-iterative compressed sensing based recovery algorithm: Surveillance applications', Multimedia Tools and Applications, Springer.
5. Florence GnanaPoovathy, J, Radha, S, 'Non-Iterative Pseudo Inverse based recovery algorithm (NIPIRA) for compressively sensed images and videos', Wireless personal Communications, Springer,
6. Chithradevi R, Nafiza, B.S.Sreeja and S.Radha, (2016) 'Compact modified "T" slot circular patch quad band antenna for MIMO applications', International Journal of Microwave and Wireless Technologies, July 2016, pp. 1–9. doi: 10.1017/S1759078716000696.IF 0.9
7. Joshitha C, Sreeja B S, SasiPrincy S, Radha S, "Fabrication and investigation of low actuation voltage curved beam bistable MEMS switch", Microsystem Technologies
8. S. AashaNandhini; Radha S ; Nirmala P ; Kishore R, "Compressive Sensing for Images using a Variant of Toeplitz Matrix for Wireless Sensor Networks" Journal of Real-Time Image Processing, Springer, Published Online, December 2016, pp.1-16.
9. S. AashaNandhini; Radha S ; Manimozhi S ; "Compressed sensing based foreground detection vector for object detection in Wireless Visual Sensor Networks" Elsevier's AEUE International Journal of Electronics and Communications, February 2017, Volume 72, Pages 216-224,
10. Chithra Devi R, Nafiza N, Sreeja B S, Radha S, "A Novel performance diversity Modified Elliptical patch antenna for C-band applications," Microwave and Optical Technology Letters, vol.59, no.2, Feb 2017.
11. K. Senthil Kumar and R. Amutha, "An Algorithm for Energy Efficient Cooperative Communication in Wireless Sensor Networks" KSII Transactions on Internet & Information Systems. Jul 2016, Vol. 10 Issue 7, pp 3080-3099.
12. W.Jino Hans, N.Venkateswaran, Srinath Narayanan, Sandeep Ramachandran (2016)"Estimation of Higher-order Regression via. Sparse Representation Model for Single Image Super-resolution Algorithm" Applied Mathematics and Information Sciences, Volume (10), No. (5), pp. 1971-1981,
13. W.Jino Hans, N.Venkateswaran, Lysia Merlin S, DivyaPriya T (2016) "An Example-based Super-Resolution Algorithm for Multi-Spectral Remote Sensing Images" International Journal of Advanced Computer Science and Applications, Volume (7), No.9, pp. 318-323.
14. K. Madheswari and N. Venkateswaran " Particle Swarm Optimization aided weighted averaging fusion strategy for CT and MRI medical images", Multimedia Tools And Applications

15. K Madheswari and N Venkateswaran "Particle Swarm Optimization aided Weighted Averaging Fusion Strategy for CT and MRI Medical Images", International journal of biomedical Engineering and technology.
16. Radha.D, Jayaparvathy.R, Bhavadharane and J. Bhargavi," A Novel Approach to Assist Faculties In Question Paper Generation International Journal of Computer Applications (0975 – 8887) Volume 150 – No.10, September 2016 pp. 35-37.
17. Ramesh. S.R and R. Jayaparvathy, "Improved Statistical Static Timing Analysis Using Refactored Timing Graphs" Journal of Computational and Theoretical Nanoscience, Vol 13, No 11, pp 8879–8884 (2016).
18. V. Lingasamy, K.T. Selvan, T. S. Bird and V. Venkatesan, "Uncertainty estimation in the two antenna gain measurement of a 4.8-11 GHz double ridged horn," IEEE Antennas and Propagation Magazine, vol. 59, no. 1, pp. 110-113, February 2017.
19. G. Gnanagurunathan and K.T. Selvan, "Metamaterial-Based Planar Antennas." In: Prabakaran S., Thalmann N., KanchanaBhaaskaran V. (eds) Frontiers in Electronic Technologies. Lecture Notes in Electrical Engineering, vol 433. Springer, Singapore, 2017.
20. K.T. Selvan, "Understanding electrical properties of dielectrics," Forum for Electromagnetic Research Methods and Application Technologies (FERMAT), vol. 12, 2016.
21. K.T. Selvan and S. Sharma, "Uncertainty estimation in antenna measurements," Forum for Electromagnetic Research Methods and Application Technologies (FERMAT), vol. 15, 2016.
22. Edna Elizabeth.N, ShahidhAqeelShahul, "Velocity Optimized Solar-Time bound Traffic free Routing (VOSTTR) E-E Protocol for VANET's", International Journal of Computer Science and Information Security", Vol. 14, No. 12, December 2016, pp 438-444.
23. S. A. Anapagamani and R. Rajavel, "Hardware implementation of ECG denoising system using TMS320C6713 DSP processor", International Journal of Biomedical Engineering and Technology, Volume 21, No.1, pp 95-108, June. 2016,
24. M. Edington Alex, Kishore Rajendiran, "Forensics framework for cloud computing" Elsevier's Computer and Electrical Engineering Journal, Published Online February 2017
25. L. Nandita and N. Venkateswaran "Finite-SNR DMT of MIMO System with ZF Receiver." International Journal of Advanced Engineering and Technology, Apr-June 2016, Vol No.8, pp 810-812,
26. Resiga, K. V. and L. Nandita, "Peirce's criteria for Multiple Outlier Detection in Cooperative Spectrum Sensing for Cognitive Radio Network." International Journal of Engineering and Future Technology, June 2016, Vol No.6, pp 41-49,
27. L. Nandita, D. Jalihal (Faculty-EE, IITM),"Performance of p-Norm Detector in Cognitive Radio Networks with Cooperative Spectrum sensing in presence of malicious users" Wireless Communication and Mobile Computing (Wiley), Jan 2017,
28. L. Nandita, D. Jalihal, Arun P Kannu, Srikrishna Bhashyam "Finite-SNR Outage Analysis for MIMO Channels with Imperfect Channel State Information", Physical Communication (Elsevier), vol. 22, pp. 58-64, Jan. 2017.

29. K.S.Vishvakshenan, K.Mithra, R.Kalidoss, R.Karthipan, "Experimental Study on Elliott Wave Theory for Handoff Prediction", Fluctuation and Noise letters, Vol. 15, No.4, 2016.
30. P.T.VasanthRaj,K.S.Vishvakshenan, "System analysis of DSTTD-CDMA system with polarization diversity for frequency-selective channel", Computers and Electrical Engineering, Elsevier journal,
31. K.S.Vishvakshenan, R.Kalaiarasan, R.Kalidoss and R.Karthipan, "Real Time Experimental Study and Analysis of Elliott Wave Theory in Signal Strength Prediction", Proceedings of the National Academy of Sciences, India Section A: Physical Sciences, Springer journal,
32. K.Muthumeenakshi and S.Radha, "Spectrum Sensing in Cognitive Radios under Noise Uncertainty: Decision Making using Game Theory", International Journal of Smart Sensing and Intelligent Systems", vol.10, no.1, pp. 146 - 173, 2017.
33. S.SakthivelMurugan, "Design and Implementation of an Energy harvesting system using MFC with Marine sediments for underwater Applications", International Journal of Marine Science Research and Development, July 2016, Vol.6, Issue No.4, pp.53.
34. S.SakthivelMurugan, "Performance analysis of an energy efficient cross layer protocol for underwater acoustic wireless sensor network", International Journal of Marine Science Research and Development, July 2016, Vol.6, Issue No.4, pp.35.
35. S.M.Ashabanu, S.SakthivelMurugan, P.Venugopal, "Study of Vertical coherence in shallow water ambient noise" International Journal of advances in natural and applied sciences, 2016, Vol.10, No.14, pp.59-64.
36. P.Kaythry, K.J. Jegadish Kumar,"FPGA based System on Chip IPTV set top box" in International Journal of Computer Science and Network Security, Vol 17, No.2, Feb.2017, pp.no 113-118.
37. S. Velan, S. Kingsly, M. Kanagasabai, M. G. N. Alsath, Y. PanneerSelvam and S. Subbaraj, "Quad-Band Rat-Race Coupler With Suppression of Spurious Pass-Bands," in IEEE Microwave and Wireless Components Letters, vol. 26, no. 7, pp. 490-492, 2016,
38. Sandeep Kumar, P ;Yogeshwari, P, Alsath, M.G.N., Kanagasabai, Malathi, Saffrine, Kingsley; Sangeetha, S "3D Eight-port Ultra-wideband (UWB) Antenna Array for Diversity Applications," IEEE Antennas and Wireless Propagation Letters, vol. 16, pp. 569- 572,2017
39. Rajesh, N, Kanagasabai, Malathi ; Alsath, M.G.N., "Dual Mode Antipodal Vivaldi Antenna", IET Microwaves, Antennas & Propagation, vol. 10, issue 15, pp. 1643 - 1647, 2016
40. Alsath, M.G.N. ;Kanagasabai, Malathi ; "Ultra-Wideband Grid Array Antenna for Automotive Radar Sensors", IET Microwaves, Antennas & Propagation, vol. 10, issue 15, pp. 1613 - 1617, 2016
41. Pakkathillam, J.K. ; Kanagasabai, Malathi ; Alsath, M.G.N. ; "A Compact Multiservice UHF RFID Reader Antenna for Near field and Farfield Operations," IEEE Antennas and Wireless Propagation Letters,vol. 16, pp. 149-152,
42. Rajesh, N., Kanagasabai, M., Raju, S, Abhaikumar, V., Deepak Ramprasad, Alsath, M.G.N, "Design of Vivaldi Antenna with Wideband Radar Cross Section Reduction," IEEE Transactions on Antennas and Propagation, vol. 65, no. 4, pp. 2102 - 2105, 2017,

43. Y. PanneerSelvam, Elumalai, L., Alsath, M.G.N., Kanagasabai, Malathi, S. Kingsly, S. Subbaraj, "A Novel Frequency and Pattern Reconfigurable Rhombic Patch Antenna with Switchable Polarization," IEEE Antennas and Wireless Propagation Letters, 2017,
44. S. Subbaraj, V. S. Ramalingam, M. Kanagasabai, E. F. Sundarsingh, Y. P. Selvam and S. Kingsley, "Electromagnetic Nondestructive Material Characterization of Dielectrics Using EBG Based Planar Transmission Line Sensor," in IEEE Sensors Journal, vol. 16, no. 19, pp. 7081-7087, Oct.1, 2016
45. V. R. Samsingh (Faculty/Mechanical), M. Kanagasabai and Esther Florence Sundarsingh (Faculty/ECE), "A Novel Metamaterial Enhanced Microwave Testing System for Bare PCB Substrates Using Image Rendering Approach," in IEEE Transactions on Components, Packaging and Manufacturing Technology, vol. 7, no. 2, pp. 285-291, Feb. 2017.
46. Annadurai C, Raja A. Mani Muthu, "Energy Efficient Cooperative Positioning Algorithm for Global Navigation Satellite System", Asian Journal Of Research In Social Sciences and Humanities Volume: 6 Issue: 7 Pages: 266-275 Published: Jul 2016.
47. Mani MuthuRaja, C.Annadurai, "Investigation on Power Optimization in Cooperative Wireless Network Localization", International Journal of Advanced Engineering Technology, Vol. VII, Issue II, April-June, 2016, pp. 285-289.
48. Annadurai, V. Nagarajan, "Performance Analysis for Cooperative Ad-hoc Networks in the Presence of Correlated Nakagami Fading" Wireless Personal Communication Springer, published in Online August, 2016, pp.1-16
49. I.AnuradhaR, Anbuselvi M and Saravanan P, "Torque Ripple Minimisation Of BLDC Motor Using Vector Control Algorithm", International Journal of Emerging Technology in Computer Science & Electronics Volume 23 Issue 2 – June 2016.
50. Partibane. B, Nagarajan. V, 'Triple-Polarized Multi User MIMO-IDMA System Under Correlated Fading Channel', Circuits and Systems, Vol.7, June 2016, pp. 1623-1634
51. Vinothkumar C and Natarajan V, "Hybrid local prediction error-based difference expansion reversible watermarking for medical images", Computers and Electrical Engineering, Vol. 53, pp. 333-345, July 2016.
52. G. Durga, R. Srinivasan, "Silicon nanotube SRAM and its SEU reliability", Super lattices and Microstructures, March, 2017, Volume 106, pp: 129 -138,
53. G. Durga, R. Srinivasan, "SET analysis of silicon nanotube FET", Journal of Computational Electronics, April 2017,
54. S. V. Ramyaa, S. Karthie, "Design of Microstrip Bandpass Filter with different Substrates using Hilbert Fractal Geometry," International Journal of Advanced Research Trends in Engineering and Technology Vol. 4, Special Issue 10, March 2017.
55. K.Vijayalakshmi, S. Karthie, "Novel Microstrip bandpass Filter with different Substrates of Koch Fractal Curve with Harmonic Suppression," International Journal of Advanced Research Trends in Engineering and Technology Vol. 4, Special Issue 10, March 2017.
56. Sridhar Bilvam, Ramprabhu Sivasamy, Malathi Kanagasabai and Sanjay Baisakhiya "Miniaturized Band Stop FSS Using Convolutional Swastika Structure," in Frequenz, vol. 71, no. 1-2, pp. 51-56, October 2016.

National Journals

1. K. Anusudha, N. Venkateswaran and J. Valaramathi, "Selective Plane Replacement Watermarking and Cryptography – SPRWC", Indian Journal of Science and Technology, Vol. 9, PP1- 7,

Department: Science & Humanities

1. Sujatha. R, Boopathi. M, Senthil kumar. C, Narasimman. S, "Quantification of Software Code Coverage Using Artificial Bee Colony Optimization Based on Markov Approach", Arabian Journal for Science and Engineering, pp. 1–17, May 2017.
2. Sujatha. R, Naveen. S, Narasimman. S, "Fuzzy Probability Approach for Re-estimation of Fuzzy Hidden Markov Chain", International Journal of Pure and Applied Mathematics, Vol. 109, No.8, pp. 57–64, 2016.
3. Sujatha. R, Shriram. K, Narasimman. S, "Fuzzy Combinatorial Dual Graph", International Journal of Pure and Applied Mathematics, Vol. 109, No.7, pp. 35–41, 2016.
4. Jayakaran Amalraj. I and Alexander Raymand. G, "Core Variation in an Externally Pressurized Converging Thrust Bearing with Bingham Lubricant", Applied Mechanics and Materials, (ISSN 1662-7482), Vol. 852, pp. 428–434, 2016.
5. Asha Banu. S. M, Sakthivel Murugan. S, Venugopal. P, "Study Of Vertical Coherence In Shallow Water Ambient Noise", Advances in Natural and Applied Sciences, Vol. 10, No.14, pp. 59–64, 2016.
6. Vanitha. S, "M/G/1 Queue with Multiple Optional Services and Deterministic Repair Times", International Journal of Mathematics and its Applications, Vol. 4, Issue 4, pp. 17–29, 2016.
7. Deepa. P, Srinivasan. P and Sundarakannan. M, "Local coloring of self complementary graphs", AKCE International Journal of graphs and combinatorics 2016.
8. Yuges. S and Devaraj. P, "Reconstruction of Bivariate Cardinal Splines of Polynomial growth from their Local Average Samples", Applied Mathematics E-Notes (ISSN 1607-2510).
9. Velmurugan. G, Rakkiyappan, R, Vembarasan, V, Cao. J, and Alsaedi. A, "Dissipativity and stability analysis of fractional-order complex-valued neural networks with time delay", Neural Networks,(ISSN 0863-6080), 2016.
10. Paulraja. P and Sampath Kumar. S, "Edge Disjoint Hamilton Cycles in Knodel Graphs", Discrete Mathematics and Theoretical Computer Science, (ISSN 1365-8050), Vol. 17, No. 3, pp. 263–284, 2016.
11. Williamson. A, and Padmapriya. N, "Cost of Alternative Techniques for Manufacturing Composite Aerospace Designs". In: Saleem Hashmi (editor-in-chief), Reference Module in Materials Science and Materials Engineering. Oxford: Elsevier; September, pp. 1–5, 2016.
12. Namkung. M, Wincheski. B, and Padmapriya. N, "NDT in the Aircraft and Space Industries", In: Saleem Hashmi (editor-in-chief), Reference Module in Materials Science and Materials Engineering. Oxford: Elsevier; September, pp. 1–4, 2016.
13. Boyer. R, and Padmapriya. N, "Aircraft Materials". In: Saleem Hashmi (editor-in-chief), Reference Module in Materials Science and Materials Engineering. Oxford: Elsevier (ISBN: 978-0-12-803581-8), pp. 1–9, 2016.

14. Manimaran. A, Praba. B and Chandrasekaran. V. M, "Characterization of Rough Semiring", Afrika Matematika, DOI 10.1007/s13370-017-0495-7, March 17, 2017.
15. Narendren. S, Manimaran. A, Chandrasekaran. V. M and Praba. B, "Secure Multicast Communication using RSA and DNA Cryptography", Research Journal of Pharmacy and Technology, Vol. 10, No. 1, pp. 113–116, 2017.
16. Deepa. G, Praba. B, Chandrasekaran. V. M, "Bounds of Energy with Real and Complex Roots of an Intuitionistic Fuzzy Directed Graph", International Journal of Mathematical Modelling and Numerical Optimisation, Vol. 8, No. 1, pp. 42–61, 2017.
17. Manimaran, Chandrasekaran. V. M and Praba. B, "A Review of Fuzzy Environmental Study in Medical Diagnosis System", Research Journal of Pharmacy and Technology, (ISSN 0974-360X), Vol. 9, No. 2, pp. 119–126, 2016.
18. Praba. B, Deepa. G and Chandrasekaran. V. M, "Spreading rate of virus between incoming and outgoing links of a website through an intuitionistic fuzzy graph", International Journal of Pure and Applied Mathematics, Vol. 109 No. 4, pp.799–812, 2016.
19. Deepa. G, Praba. B and Chandrasekaran. V. M, "Spreading Rate of Virus on Energy of Laplacian Intuitionistic Fuzzy Graph", Research J. Pharm. and Tech., Vol. 9, Issue 8, 2016.
20. Kalaivani. C and Kalpana. G, "Common fixed point theorem in b-metric space using subcompatible and sequentially continuous maps", Global Journal of Pure and Applied Mathematics, Vol. 13, No. 1, pp 306 – 314, 2017.
21. Kalpana. G and Kalaivani. C, "Fuzzy Soft Topology", International Journal of Engineering Studies, Vol. 9, No. 1, pp. 45-56, 2017.
22. Kalpana. G, "Common Fixed Points of Pseudo Compatible Mappings in Intuitionistic Fuzzy Metric Spaces", International Journal of Engineering Studies, Vol. 8, No. 2, pp. 305-319, 2016.
23. Sundareswaran. R, Mathavimanisekar and Lalitha. S, "Removal of Degeneracy in the Topological indices of Cospectral graphs using edge weighted molecular graphs", Journal of Advances in Chemistry, Vol. 13, No. 7, pp. 6322-6326, 2017.
24. Sundareswaran. R, Swaminathan. V, "Integrity and Domination Integrity of Gear Graphs", TWMS J App. Eng. Math.(ISSN 2146 1147), Vol. 6, No. 1, pp. 54-63, 2016.
25. Pushpalatha. A. P, Jothilakshmi. G, Sundareswaran R, "Forcing sets in graphs with respect to domination", International Journal of Applied Engineering Research, (ISSN 0973-4562), Vol. 11 No.1, pp.136-138, 2016.
26. Shanmugapriya. M, "Effect of Thermal Radiation on Forced convective flow over a porous moving plate", International Journal of Mechanical Engg and Technology, Vol. 7, Issue 6, pp. 577-588, 2016.
27. Selvi Rajendran.P, Rajalaxmi.T.M, Jane olive Sharon.P, Computing wiener index of certain nanotubes using partition technique, International Journal of Pure and Applied Mathematics, Vol. 109, No.8, pp.65-74, 2016.
28. Julie Charles and Gunasekaran. S, "Experimental and theoretical investigations of natural rubber(cis-1,4-polyisoprene) using Coloumb attenuating and Hartree–Fock theoretical methods", Optik- International Journal for Light and Electron optics, Vol. 127, Issue 1, January, 2016, pp. 279-287.

29. Anandhababu. G, Takahashi. I, Matsushima. S, Usami. N, "Improved multicrystalline silicon ingot quality using single layer silicon beads coated with silicon nitride as seed layer", J. Crystal Growth, Vol. 441, May 2016, pp. 124-130.
30. Subramaniyan @ Raja, R, Anandhababu, G, & Ramasamy, P "Studies on the growth and characterization of an organic single crystal -1,3,5- Triphenyl benzene", Materials Research Innovations, January 2017, pp.1-6.
31. G.Latha, P. Nair, "Solid Core Photonic Crystal Fiber Based Optical Studies of Transformer Oil Through Near Field Imaging', Optik - Int. J. Light Electron Opt, Vol 127. Issue 9, 2016, pp.10991-10998.
32. Sadhasivam.S, Rajesh N.P., "Structural and optical effects induced by gamma irradiation on NdPO₄: X-ray diffraction, spectroscopic and luminescence study", Materials Research Bulletin, Vol.74, 2016, pp.117-123.
33. Sadhasivam.S, Rajesh Narayana Perumal, Ramasamy.P, Growth, Structural, Thermal, Electrical and non- linear optical properties of Yb³⁺ doped KTiOPO₄, Journal of Crystal Growth, Vol. 445, 2016, pp. 84-89.
34. Jebin R.P., Suthan.T, Rajesh.N.P., Vinitha G., BrittoDhas S.A, Studies on crystal growth and physical properties of 4(dimethylamino)benzaldehyde-2,4-dinitroaniline single crystal, Optical Materials, Vol. 57,2016, pp. 163-168.
35. Arivazhagan.T, Siva BalaSolanki.S, Narayana Perumal Rajesh, Growth and characterization of butyl 4-hydroxybenzoate single crystal by vertical Bridgman technique for third order nonlinear optical applications, Optics & Laser Technology, Vol. 88,2016, pp.188-193.
36. Rajesh Narayana Perumal, Subalakshmi. G., Near-infrared down-conversion in Yb³⁺:TiO₂ for solar cell applications, J Mater Sci: Mater Electron, Vol. 27,2016, pp. 1-7.
37. SenthilkumarChandran, Rajesh Paulraj, P. Ramasamy, Effect of amaranth on dielectric, thermal and optical properties of KDP single crystal, Materials Research Bulletin,, vol.186, pp.365-371, 2017.
38. NirmalPrashanth M, Rajesh Paulraj, Ramasamy P, Vijayan N, One step synthesis of tin oxide nanomaterials and their sintering effect in dye degradation, Optik - International Journal for Light and Electron Optics, vol. 135, pp.434-445, 2017.
39. A.Silambarasan, P. Rajesh, R Bhatt, I Bhaumik,AK Karnal, P. Ramasamy Investigation on crystalline perfection, optical transmittance, birefringence, temperature-dependent refractive index, laser damage threshold and pyroelectric characteristics of inversely soluble lithium, Applied Physics A: Material Science and Processing ISSN 1432-0630 Vol. 122 pp. 736 (1-9) 2016
40. Sivakumar S, ChandrasekaranA, G.Balaji, Ravisankar R., Assessment of heavy metal enrichment and the degree of contamination in coastal Sediments from South East Coast of Tamilnadu, India, Journal of Heavy metal Toxicity and Diseases, 1 (2:11), July-2016, 01-08
41. Raghu Y, Ravisankar R, Chandrasekaran A, Vijayagopal P and Venkatraman B.. "Assessment of natural radioactivity and radiological hazards in Brick samples, used in Tiruvannamalai Dist, Tamilnadu, India with statistical approach. Health Physics, Vol.111, issue 3, Sep. 2016, pp.265-280.
42. Chandrasekaran.A, Naseerutheen.A, Ravisankar.R Data set on elemental concentration and group identification of ancient potteries from TamilNadu, India. Data in Brief, Vol.10, February 2017, pp.215-220.

43. Harikrishnan.N, Chandrasekaran.A, Elango.G, Eswaran.P, Ravisankar.R. An Evaluation of Natural Radioactivity and Its Associated Health Hazards Indices of Coastal Sediments from Rameshwaram Island, Tamilnadu, India Journal of Radiation and Nuclear Applications. Vol. 2, issue 1, January 2017, pp.23-27.
44. Chandramohan, J, Chandrasekaran. A, Prince Prakash Jebakumar.J., Elango. G., Ravisankar.R. Assessment of contamination by metals in coastal sediments from South East Coast of Tamilnadu, India with Statistical Approach. Iranian Journal of Science and Technology, Transactions A: Science. Vol.41, issue 1 April 2017 pp. 1-16
45. Sivakumar,S, Chandrasekaran.A, Senthilkumar.G, Suresh Gandhi.M, Ravisankar.R. Determination of radioactivity levels and associated hazards of Coastal Sediment from South East Coast of Tamilnadu with Statistical Approach. Iranian Journal of Science and Technology, Transactions A: Science. Vol.41, issue 1, April 2017, pp.1-14
46. Tholkappian.M, Chandrasekaran.A, Harikrishnan.N, Durai Ganesh, Elango.G, Ravisankar.R. Measurement of natural radioactivity in and around Chennai Coast, East Coast of Tamil Nadu, India, using gamma ray spectrometry. Radiation protection and Environment Vol.40 issue 1, April 2017, pp.9-12.
47. Suleimanov N.M, Prabakaran.S.R.S, KhantimerovS. M, NizamovF. A, MichaelM. S, Drulis H, Wisniewski P, "Magnetic order and electronic properties of $\text{Li}_2\text{Mn}_2(\text{MoO}_4)_3$ material for lithium-ion batteries: ESR and magnetic susceptibility studies", Applied Physics A vol.122 (8), 2016, 754.
48. Michael M.S., Ajit R.Kulkarni, Prabakaran S.R.S., "Design of Monolayer Porous Carbon-Embedded Hybrid- LiMnPO_4 for High Energy Density Li-Ion Capacitors", J. Nanosci. Nanotechnol, 16, 7314-7324, 2016
49. Myilsamy M, MahalakshmiM, Subha N, Rajabhuvaneswari A and Murugesan V, "Visible light responsive mesoporous graphene- $\text{Eu}_2\text{O}_3/\text{TiO}_2$ nanocomposites for the efficient photocatalytic degradation of 4-chlorophenol" RSC Adv., 6, 2016, 35024.
50. Sangeetha Priya V, Iyappan K, Gayathri V.S., William S, Suguna L, "Influence of pullulan hydrogel on sutureless wound healing in rats", Wound Medicine, 14, 2016, 1-5.
51. Davis Presley & Bhuvaneswara Gurunathan, "Synthesis of 2E-Dehydropropafenone Hydrochloride", Rasayan Journal of Chemistry, Vol 9, 177-179, 2016.
52. Sam Praveen D, "Learning beyond the Classroom through Whats App_ An Informal Channel to Motivate Learners to stay Connected," Asian Journal of Research in Social Sciences and Humanities, Vol. 6, Issue: 9, Sep 2016, ISSN: 2249-7315.
53. Sam Praveen D, "Natural Approach of Teaching English Language on a Flipped Classroom Platform to Tertiary Level Engineering Learners," International Journal of Educational Sciences, Vol. 14, Issue: 1-2, Aug 2016, ISSN: 0975-1122.
54. John Divya, "Training the Dragon," Voices, IATEFL 50th Anniversary Issue 1, Issue 250, May-June, 2016, pp 3. ISSN: 1814-3830.
55. John Divya, "Introducing Free Writing to College Students to Enhance their Writing Skills," Fortell, A Journal of Teaching English Language and Literature, Issue No. 34, Jan 2017, pp 25-32. ISSN Print: 2229-6557, Online 2394-9244.

56. Thiruvengataswami. S, 'Does English language acquisition take place inside the classroom (EICL) or outside the classroom? (EOCL) - Implications for classroom practice at the tertiary level', The English Classroom, Vol. 18, Number 1, June 2016, pp 1-10 ISSN: 2250-2831.
57. Karunakar Martha, 'Teaching English to Rural Students through a Bridge Course: A Study of a Select Batch in a Technical College', The English Classroom, Vol. 18 Number 1, June 2016, pp 104 -114, 2016, ISSN: 2250-2831.
58. Chandrasekharan Deepesh, 'Mother-tongue Medium vs. Pseudo-English Medium School Education: Evidence of Contrast in the English Language-learning Experiences of Students in Technical Colleges,' The English Classroom, Vol. 18 Number 1, June 2016, pp 61-77, 2016, ISSN: 2250-2831.
59. Venkateswara U. & John Divya, 'Augmenting the Verbal Communication of Students by Changing their Learning Behaviour,' The English Classroom, Vol. 18 Number 1, June 2016, pp 61-77., ISSN: 2250-283.
60. Chandrasekharan Deepesh, 'Staff Room,' The Journal of Teaching and Research in English Literature, Vol. 8 Special Issue, March 2017, pp 6, 2017, ISSN: 0975 – 8828

Department of Management Studies

1. Vani Haridasan “A Multi Criteria Approach for Selecting Third Party Logistics Provider using Analytical Hierarchical Processing (AHP) Insights from Edible Oil Industry” has been published in International Journal of Advanced Engineering, Management and Science (IJAEMS) ISSN:2454-1311, Vol 2, Issue 6, pp 850-856, June 2016 . (Impact Factor: 3.585)
2. Vijaya Mani, ‘A Cross- Sectional Examination of the Sources contributing to Academic Stress’ in the Asian Journal of Research in Social Sciences and Humanities, Vol. 6, No. 10, October, 2016, pp. 1135-1146. ISSN 2249-7315.
3. S Arun Kumar, Sudarshan Jaisingh, Poornima and R Venkaresh, ‘Assessing the Effect of Service Quality Dimensions on Bank Customers Behavioural Responses: A Structural Equation Model. In the journal titled International Journal of Applied Engineering Research, p no 2802-2807, vol 10(15) ISSN-1993-5250
4. Sudarshan Jaisingh and R Venkatesh ‘Determinants of Customer Brand Engagement in Social Media Sites: A Conceptual Framework ‘ in the journal titled International Business Management, p no 5555 – 5566, vol 11(8) ISSN-0973-4562
5. Sudarshan Jaisingh and R Venkatesh ‘A Content Analysis of Online Retailer’s Facebook Brand Pages’ in the journal titled International Journals of Marketing and Technology, 2249-1058 August, 2016, volume - 6, issue 8.
6. Asokumar, “Price Spread Studies for sustainable Farming and Organised Retail management procurement system” in MIM Journal of Management Research ISSN : 2394-6997, Vol 2, Dec 2016, PP 121-128.
7. Sampath Kumar and Kavitha M “Perception of Customers towards E-Banking Services” in the MIM International Journal Of Management Research – Volume 2 – Special Volume 2 – December 2016 – ISSN 2394 6997.
8. Sampath Kumar and Kavitha M ‘Perception of investors towards deployment of Mutual Funds in the Portfolio Management ‘in the Journal of Management and Science – Volume 2 Jan, 2017– – ISSN 2249-1260.

9. K. Sampath Kumar and Kavitha M 'Strategies for identifying and reducing the frauds in E-Commerce' international journal of Business Intelligence & Innovation published by DOMS, University of Madras, Feb 2017. Issue 4 Vol 3 ISSN 2348-4705
10. T Girija and B Srinivasan "Assessing the Readiness to Adopt E-Learning among Industrial Training Institute Students in Tamil Nadu" in IOSR Journal of Business and Management (IOSR-JBM) e-ISSN: 2278-487X, p-ISSN: 2319-7668. Volume 19, Issue 1. Ver. I (Jan. 2017), PP 55-62.
11. Vijaya Mani, 'Analyzing the Impact of functional and dysfunctional Conflict on Organizational Outcomes' in the IRACST- International Journal of Research in Management & Technology (IJRMT), ISSN: 2249-9563 Vol. 7, No1, Jan-Feb, 2017 (I Fact: .765)
12. Vijaya Mani, 'A Identifying the Association between the Personality Dimensions and Job Performance in a Research Institution' in the IRACST- International Journal of Research in Management & Technology (IJRMT), ISSN: 2249-9563 Vol. 7, No2, March-April, 2017 (I Fact: .765)

Department: Mechanical Engineering

1. V.E.Annamalai and M.J.Hepsi Beaula, "Effect of aligning internal pores in a grinding wheel", Applied Mechanics and Materials, Vol. 852, 2016, pp.192-197.
2. A.K.Lakshminarayanan and V.E.Annamalai, "Fabrication and performance evaluation of friction stir multiseam clad dissimilar Al-Mg Joints", Transactions of Non Ferrous Metals Society of China, Vol. 27, Issue 1, 2017, pp. 25-35,
3. P. Tamilselvana, N. Nallusamy, S. Rajkumar, "A comprehensive review on performance, combustion and emission characteristics of biodiesel fuelled diesel engines", Renewable and Sustainable Energy Reviews-79, 2017 1134–1159 <https://doi.org/10.1016/j.rser.2017.05.176>
4. P. Raghu and N. Nallusamy, "Spray Characteristics of Biodiesel Fuel in Constant Volume Chamber using Multi-response Optimization Technique", Journal of Thermal Science, Vol.25, No.6, 2016, pp. 581-588.
5. N. Nallusamy, P. M. Sivaram and M. Suresh, "Numerical Modelling of Solar Parabolic Trough Receiver Employed for Thermal Energy Storage System", Journal of Clean Energy Technologies, Vol. 5, No. 2, March, 2017, pp. 107 - 113.
6. P. Tamil Selvan, K. Vignesh and N. Nallusamy, "Experimental investigation of performance, combustion and emission characteristics of CI engine fuelled with Chicha oil biodiesel", International Journal of Ambient Energy, 2016, pp. 1-7.
7. P. M. Sivaram, N. Nallusamy and M. Suresh, "Experimental and numerical investigation on solar parabolic trough collector integrated with thermal energy storage unit", International Journal of Energy Research, Vol. 40, 2016, pp. 1564-1575.
8. Ganesh Kumar. S, Raghu Palani, Pitchandi. K and Nallusamy. N, "Spray characteristics of Chicha oil methyl ester and diesel fuel in a constant volume chamber", International Journal of Advanced Research in Basic Engineering Sciences and Technology, Vol. 3, Issue 33, March, 2017, pp. 122 – 128.
9. K.Subbaiah, "Tensile Properties and Microstructure of Friction Stir Welded Cast Al-Mg-Sc Aluminum alloy", Applied Mechanics and Materials, Vol. 852, 2016, pp. 375-380.
10. Kollapuri Thamilarasan, Sadayan Rajendra Bupathi, Gankindi Madhusudhan Reddy, Tadvika Srinivasa Rao and Sajja Rama Koteswara Rao, "Salt fog

- corrosion behaviour of friction stir welded AA2014-T651 Aluminum alloy”, *Materials Testing*, Vol. 58, Issue 11-12, 2016, pp. 932-938.
11. Tadvika Srinivasa Rao, Gankidi Madhusudhan Reddy and Sajja Rama Koteswara Rao, “Investigation on variations in hardness and microstructure of in-process cooled 7075 aluminium alloy friction stir welds”, *Materials Testing*, Vol. 59, Issue 2, 2017, pp. 155-160.
 12. B. Anand Ronald, C. Arun Prakash, M. Suba Karthik and K.V.J. Arun, “Influence of Steel Shot Size on the Permeability of Mould”, *Perspectives in Science*, Vol. 8, September, 2016, pp. 444 - 446.
 13. B. Anand Ronald, C. Arun Prakash and M. Suba Karthik, “Influence of Steel Shots Size on Tensile Properties of Magnetic Moulded MMC”, *Applied Mechanics and Materials*, Vol. 852, 2016, pp. 118-122.
 14. Shivaram PR, Sushinder K, Nivedh Kannaa SB, Nisarg Gupta, and Vijay Sekar KS, “Experimental Investigation and Finite Element Analysis of Milling of Ti-6Al-4V Titanium Alloy by Studying Cutting Forces and Chip Microstructure”, *Applied Mechanics and Materials*, Vol. 852, 2016, pp. 311-316.
 15. Sriram S, Vignesh V, Vijay Sekar K S and Pradeep Kumar M, “Finite element modelling of orthogonal cryogenic machining process”, *Applied Mechanics and Materials*, Vol. 852, 2016, pp. 248-254.
 16. Thamizharasan. M.M, Nithiya Sandhiya. Y.J, Vijay Sekar. K. S and Bhanu Prasad. V. V, “Finite element analysis of the effect of cutting speed on the orthogonal turning of A359/SiCp MMC”, *Applied Mechanics and Materials*, Vol. 852, 2016, pp. 304-310.
 17. N. Lakshmi Narasimhan and P. Karthik, “Evaluation of Key Design Parameters of an Encapsulated Latent Heat Thermal Storage Unit”, *Applied Mechanics and Materials*, Vol. 852, 2016, pp. 652-658.
 18. M.Selvaraj, D.Ananthapadmanaban and M.Nalla Mohammed, “Effect and contribution of weld parameters on peak temperature during friction stir welding”, *Applied Mechanics and Materials*, Vol. 852, 2016, pp. 267-272.
 19. Selvaraj M and Selvakumar G, “Study of Tool Parameters Influence on Peak Temperature During Friction Stir Welding”, *Journal of Manufacturing Engineering*, Vol. 11, Issue 2, 2016, pp. 117-120.
 20. A.K.Lakshminarayanan, “Enhancing the properties of friction stir welded stainless steel joints via multi-criteria optimization”, *Archives of Civil and Mechanical Engineering*, Vol. 16, Issue 4, September, 2016, pp. 605-617.
 21. B.Rajabharathi, AK Lakshminarayanan, T.Ramprabhu, “Impact of friction diffusion welding parameters on the properties of rare earth containing magnesium alloy tube-tube plate welds”, *Journal of Alloys and Compounds*, Vol. 712, pp. 355–364.
 22. A.K.Lakshminarayanan, V.E.Annamalai, “Fabrication and performance evaluation of friction stir multiseam clad dissimilar Al-Mg Joints”, *Transactions of Non Ferrous Metal Society of China*, Vol. 27, Issue 1, 2017, pp. 25-35.
 23. N. Nallusamy, P. M. Sivaram and M. Suresh, “Numerical Modelling of Solar Parabolic Trough Receiver Employed for Thermal Energy Storage System”, *Journal of Clean Energy Technologies*, Vol. 5, No. 2, March, 2017, pp. 107 - 113.
 24. P. M. Sivaram, N. Nallusamy and M. Suresh, “Experimental and numerical investigation on solar parabolic trough collector integrated with thermal energy storage unit”, *International Journal of Energy Research*, Vol. 40, 2016, pp. 1564-1575.

25. Sriramkausik and M.S. Alphin, "Dynamic surface interaction characteristic of knee In-vitro", *Procedia Engineering*, Vol. 144, 2016, pp. 321-327.
26. Bharathkumar A and Alphin M S, "New Mechanism to improve the competences of Power Generation", *Applied Mechanics and Materials*, Vol. 852, 2016, pp. 575-581.
27. N S Siddharth, S Vishakaraj S, Alphin M S, Vigneshwar M and Vijayakumar L, "Design of Crank Operated reciprocating hacksaw", *Applied Mechanics and Materials*, Vol. 852, 2016, pp. 564-567.
28. R.Panneerdhass, A.Gnanavelbabu and K.Rajkumar, "Preparation, Properties and Machinability Study of Luffa Fiber - Groundnut Shell Reinforced Epoxy Composite", *Applied Mechanics and Materials*, Vol. 852, 2016, pp. 29-35.
29. K. Rajkumar, Saigopal Vasudevan and N.Subbiah, "A Comparative Study on the Brass-Steel Tribo-Pair under Dry and Lubricated Sliding Conditions", *Applied Mechanics and Materials*, Vol. 852, 2016, pp. 416-421.
30. P.Sabarinathan, K.Rajkumar and A.Gnanavelbabu, "Mechanical Properties of Almond Shell- ugar cane Leaves Hybrid Epoxy Polymer Composite", *Applied Mechanics and Materials*, Vol. 852, 2016, pp. 43-48.
31. M.Sankar, A.Gnanavelbabu, K.Rajkumar and M.Mariyappan, "Electro Chemical Machining of Aluminum-Boron Carbide-Nano Graphite Composites", *Applied Mechanics and Materials*, Vol. 852, 2016, pp. 136-14.
32. D.Senthilnathan, K.Rajkumar, A.Gnanavelbabu and P.Sabarinathan, "Mechanical Properties and Machinability Studies on the Human Hair-Coconut Coir-Glass Fibre Hybrid Composite", *Applied Mechanics and Materials*, Vol. 852, 2016, pp. 79-84.
33. K.A. Varun, K. Rajkumar and A. Gnanavelbabu, "Wear and Life Characteristics of Al-B4C Nano Graphite Composite", *Journal of Advanced Engineering Research*, Vol. 3, Issue 1, 2016, pp.61-65.
34. P. Sabarinathan, K. Rajkumar and A. Gnanavelbabu, "Investigation of Mechanical Properties of Luffa Cylindrical and Flax Reinforced Hybrid Polymer Composite", *Journal of Advanced Engineering Research*, Vol. 3, Issue 2, 2016, pp.124-127.
35. K.A. Varun, K. Rajkumar and K.L. Hari Krishna, "The Effect of Synthetic Diamond Powder on the Mechanical Properties of PEEK", *Journal of Advanced Engineering Research*, Vol. 3, Issue 2, 2016, pp.112-115.
36. M.Sankar, A.Gnanavelbabu, K.Rajkumar and N. A. Thushal, "Electrolytic Concentration Effect on the Abrasive Assisted- Electrochemical Machining of Aluminium-Boron Carbide Composite", *Materials and Manufacturing Processes*, Vol.32, No.6, 2017, pp. 687-692.
37. P. Karthikeyan, G. Satheesh Kumar and M. Ajin, "Geriatric Walk Assist Robot - Design, Analysis and Implementation of a Modular Lower Limb Exoskeleton Robot", *Applied Mechanics and Materials*, Vol. 852, pp. 770-775.
38. Ajin M, Satheesh Kumar Gopal and Karthikeyan P, "Design, Structural and Kinematic Analysis of Reconfigurable Sewage Cleaning Robot", *Applied Mechanics and Materials*, Vol. 852, pp. 763-769.
39. L. Poovazhagan, K. Jayakumar, R. Bharat, Kailash Viswanathan, M. Akshay and Adithya Jaikumar, "Synthesis and machining characterization of ultrasonication assisted stir cast SiCp reinforced aluminum nanocomposite", *Materials Today*, Vol. 3, 2016, pp. 2339-2346.

40. Poovazhagan Lakshmanan, Kalaichelvan.K and Sornakumar.T, "Processing and performance characteristics of aluminum-nano Boron carbide metal matrix nanocomposites", *Materials and Manufacturing Processes*, Vol. 31, 2016, pp. 1275-1285.
41. Ashok. R, Poovazhagan. L, Srinath Ramkumar. S and Vignesh Kumar S, "Optimization of Material Removal Rate in Wire-EDM Using Fuzzy Logic and Artificial Neural Network", *Applied Mechanics and Materials*, Vol. 867, 2017, pp. 73-80.
42. Kuriachen B, Deepak G.D, K. Jayakumar, Somashekar.K.P and Mathew J, "Optimization of μ - Wire Electrical Discharge Machining Parameters of Inconel718", *Journal of Manufacturing Engineering*, Vol. 11, Issue 3, 2016, pp. 147-150.
43. K Sekar, M.Manohar and K.Jayakumar, "Investigation of Mechanical and Tribological Properties of A356 alloy Al₂O₃ -SiCp Hybrid Composites through Stir and Squeeze Casting", *Journal of Advanced Engineering Research*, Vol. 3, Issue 2, 2016, pp. 89-92.
44. A Jayaganth, A Deepak Mani and K Jayakumar, "Experimental study on effect of machining parameters and environment on drilling characteristics of stainless steel 304", *Applied Mechanics and Materials*, Vol. 852, 2016, pp. 273-278.
45. L. Poovazhagan, K. Jayakumar, R. Bharat, Kailash Viswanathan, M. Akshay and Adithya Jaikumar, "Synthesis and machining characterization of ultrasonication assisted stir cast SiCp reinforced aluminum nanocomposite", *Materials Today*, Vol.3, 2016, pp. 2339-2346.
46. K. Jayakumar, "Effect of SiCp reinforcement on machinability of A356 alloy metal matrix composites", *Applied Mechanics and Materials*, Vol. 852, 2016, pp. 142-148.
47. S. Rajkumar and J. Thangaraja, "Multi-zone phenomenological combustion modeling of biodiesel fueled compression ignition engine", *International Journal of Engine Reserch*, Vol. 17, Issue 9, 2016, pp. 934–956.
48. S. Rajkumar, S. Bakshi, and P. S. Mehta, "Multizone Phenomenological Modeling of Combustion and Emissions for Multiple-Injection Common Rail Direct Injection Diesel Engines", *ASME Journal of Engineering for Gas Turbines and Power*, Vol. 138, 2016, pp.
49. P. Tamilselvana, N. Nallusamy, S. Rajkumar, "A comprehensive review on performance, combustion and emission characteristics of biodiesel fuelled diesel engines", *Renewable and Sustainable Energy Reviews*-79, 2017 1134–1159 <https://doi.org/10.1016/j.rser.2017.05.176>
50. S. Dinesh Kumar and S. Soma Sundaram, "Numerical Analysis on a Novel Burner Design with Fibonacci Curves", *Indian Journal of Science and Technology*, Vol. 9, Issue 46, December, 2016, pp.
51. M. NallaMohammed, D.Ananthapadmanaban and M.Selvaraj, "Numerical Modelling of Energy Absorption Behaviour of Aluminium Foam Coated Sandwich panels with different fibre reinforced polymer composite facesheet skins", *Applied Mechanics and Materials*, Vol. 852, 2016, pp. 66-71.
52. A.Praveenkumar and Nallamohamed.M, "Crush Performance Analysis of Combined Geometry Tubes under Axial Compressive Loading", *Procedia Engineering*, Vol. 173, 2017, pp. 1415-1422.
53. Nallamohamed.M and A.Praveenkumar, "New Insight to Improve Energy Absorption Characteristics of Long Circular Tubes with Stiffeners as Controllable

- Energy-dissipating Devices”, *Procedia Engineering*, Vol. 173, 2017, pp. 1399-1406.
54. A.Praveenkumar and Nallamohamed.M. “Numerical and Experimental Study of the Effect of Orientation and Stacking Sequence on Petalling of Composite Cylindrical Tubes under Axial Compression”, *Procedia Engineering*, Vol. 173, 2017, pp. 1407-1414.
 55. M.Nalla Mohammed, D.Ananthapadmanaban and M.Selvaraj, “Numerical Modelling of Energy Absorption Behaviour of Aluminium Foam Coated Sandwich panels with different fibre reinforced polymer composite face sheet skins”, *Applied Mechanics and Materials*, Vol. 852, 2016, pp. 66-71.
 56. E.Ravikumar,N.Arunkumar and D.Ananthapadmanaban, “Corrosion studies on friction welded Aluminium 6061 and Copper with Nickel interlayer”, *International Journal of Transsyevanian Reviews* Vol. 24, No.12, December, 2016, pp. 3340-3353.
 57. S. Rajesh, M. Dhananchezian and A. Inian Roy, “On-Line Monitoring of Drill Wear in Machining of AISI 1040 Steel Using Virtual Instrumentation”, *Applied Mechanics and Materials*, Vol. 852, 2016, pp. 205-211.
 58. K.Velayutham, K. Venkadeshwaran and G. Selvakumar, “Process Parameter Optimization of Laser Forming Based on FEM-RSM-GA Integration Technique”, *Applied Mechanics and Materials*, Vol. 852, 2016, pp. 236-240.
 59. M. Selvaraj and G. Selvakumar, “Prediction of Heat Generation during Friction Stir Welding of an Aluminium Alloy”, *Applied Mechanics and Materials*, Vol. 852, 2016, pp. 260-266.
 60. J. Manohar, S. Ramprakash, G. Selvakumar and Dhiliban, “A Case Study on Insulating Main Steam Line (MSL) with Silica Aerogel”, *Applied Mechanics and Materials*, Vol. 852, 2016, pp. 693-698.
 61. K. Velayutham, G. Selvakumar, K. Venkadeswaran and N. Lenin, “Multi-Objective Optimization of Nd:YAG Laser Cutting of Thin Ferritic Stainless Steel Sheet Using Grey Relational Analysis with Principal Component Analysis”, *International Journal of Printing, Packaging & Allied Sciences*, Vol. 4, No. 5, 2016, pp. 4037 – 4048.
 62. G.Selvakumar, K.Bravilin Jiju, S.Sarkar and S.Mitra, “Enhancing Die Corner Accuracy through Trim Cut in WEDM”, *International Journal of Advanced Manufacturing Technology*, Vol. 83, Issue 5-8, 2016, pp. 791-803.
 63. G.Selvakumar, K. Bravilin Jiju and R.Veerajothi, “Experimental Study on Wire Electrical Discharge Machining of Tapered Parts”, *Arabian Journal for Science and Engineering*, Vol. 41, No. 11, 2016, pp. 4431 - 4439.
 64. R Prakash, K.SaiKrishna, C.Sathishkumar and S.Vivekanandan, “Automatic Seat Belt for Passenger Vehicle”, *International Journal of Advanced Engineering Technology*, Vol. 7, Issue 2, 2016, pp. 329-334.
 65. R Prakash, K.SaiKrishna, C.Sathishkumar and S.Vivekanandan, “Automatic Seat Belt for Passenger Vehicle”, *International Journal of Advanced Engineering Technology*, Vol. 7, Issue 2, 2016, pp. 329-334.
 66. R Prakash, Karthiek. N, P. Ashwath, Anand. H and Adithya. G, “Numerical Study on a Conical Diffuser with Inlet Swirl” *Applied Mechanics and Materials*, Vol. 852, 2016, pp. 688-692.
 67. K.A. Varun, K. Rajkumar and K.L. Hari Krishna, “The Effect of Synthetic Diamond Powder on the Mechanical Properties of PEEK”, *Journal of Advanced Engineering Research*, Vol. 3, Issue 2, 2016, pp. 112-115.

68. Deepakumaran R, Shashank S., Ebenezer D and Tarun M, "Performance studies on a compressed air driven modified commercial two-stroke engine", Journal of Chemical and Pharmaceutical Sciences, Issue 2, 2016, pp. 11-13.
69. S. Subbaraj, Vimal Samsingh. R, M. Kanagasabai, E. F. Sundarsingh, Y. P. Selvam and S. Kingsley, "Electromagnetic Nondestructive Material Characterization of Dielectrics Using EBG Based Planar Transmission Line Sensor", in IEEE Sensors Journal, Vol. 16, No. 19, October, 2016, pp. 7081-7087.
70. Visveshwar. N, Vishal V, Vishal Venkatesh, Pragadish Karthick and R.Vimal Samsingh, "Application of Quality tools in a Plastic Based Production Industry to achieve the continous improvement cycle", Quality-Access to Success Journal, Vol. 18, No. 157, 2017, pp. 61-64.
71. B. Anand Ronald, C. Arun Prakash, M. Suba Karthik and K.V.J. Arun, "Influence of Steel Shot Size on the Permeability of Mould", Perspectives in Science, Vol. 8, September, 2016, pp. 444 - 446.
72. B. Anand Ronald, C. Arun Prakash and M. Suba Karthik, "Influence of Steel Shots Size on Tensile Properties of Magnetic Moulded MMC", Applied Mechanics and Materials, Vol. 852, 2016, pp. 118-122.
73. Nandhini, Ranjani and Arun Prakash. C, "Autonomous Glass Cleaning Robot", Applied Mechanics and Materials, Vol. 852, 2016, pp. 757-762.
74. V. Nandini, R. Deepak Vishal, C. Arun Prakash and S. Aishwarya, "A Review on Applications of Machine Vision Systems in Industries", Indian Journal of Science and Technology, Vol. 9, Issue 48, December, 2016, pp. 1-5.
75. Jayakishan Balagurunathan and Visveshwar N, "Evaluation of Performance, Combustion and Emission Characteristics of a Compression Ignition Engine using Methyl Esters of Mahua Oil", Global Research and Development Journal For Engineering, Vol. 112, 2016, pp. 42 - 48.

Department: Information Technology

1. Vijayalakshmi P, Nagarajan T, "Exploiting Acoustic Similarities between Tamil and Indian English in the Development of an HMM-based Bilingual Synthesizer", IET Signal Processing, Vol-11, Issue-3, May-2017, pp. 332-340.
2. Jeeva MP, Nagarajan T, Vijayalakshmi P, "Discrete cosine transform-derived spectrum-based speech enhancement algorithm using temporal-domain multiband filtering", IET Signal Processing, Vol-10, Issue-8, pp.965-80, Jun 2016.
3. Ponnambalam M, Vinodhkumar N, Srinivasan R, Chandramani PV, "Phase displacement study in MOSFET based ring VCOs due to heavy-ion irradiation using 3D-TCAD and circuit simulation", Microelectronics Reliability, Vol-65, Oct 2016, pp.27-34.
4. Ambika R, Srinivasan R, "Analysis of independent gate operation in Si nano tube FET and threshold prediction model using 3D numerical simulation", Journal of Computational Electronics, Vol-15, Issue-3, Sep 2016, pp.778-86.
5. V. Pavan Kumar Reddy, R. Ambika and R. Srinivasan, "Performance Analysis of Square Cross Section Based Junctionless Silicon Nanotube FET", Middle-East Journal of Scientific Research, Vol-24, Issue-4, pp.1351-1354, 2016,.
6. Ambika, R., N. Keerthana, and R. Srinivasan, "Realization of Silicon nanotube tunneling FET on junctionless structure using single and multiple gate workfunction", Solid-State Electronics, Vol-127, pp.45-50, 2017.
7. G.Durga, R.Srinivasan, "Silicon nanotube SRAM and its SEU reliability", Superlattices and Microstructures, Vol:106, March 2017, pp: 129 – 138.

8. Radha, N., A. Shahina, and A. Nayeemulla Khan, "An Improved Visual Speech Recognition of Isolated Words using Combined Pixel and Geometric Features.", Indian Journal of Science and Technology, Vol-9, Issue-44, Nov 2016.
9. M. Umaparvathi, N. Bhalaji S, Jothi Prasanna and N. Parthiban. "Analysis of Creido Enhanced Chord Overlay Protocol Under Different Movement Models in Delay Tolerant Networks.", Wireless Personal Communications, Vol-90, Issue-2, pp.985–1001, Sept 2016.
10. Lakshmi, NVS Sree Rathna, N. Bhalaji, and B. Sivakumar, "On the Construction of QoS Based Overlay Architecture for Wireless Local Area Network." Wireless Personal Communications: Vol-90, Issue-2, Sept 2016, pp. 817-29.
11. Mugunthan, Vaikkunth, and N. Bhalaji, "Analysis of New L5 Algorithm Embedded with Modified AES Algorithm in Address Allocation Schemes", Journal of Telecommunication, Electronic and Computer Engineering (JTEC) Vol-8, Issue-6, pp. 133-136, July 2016.
12. S. Karthika & P.Saranya, "Email Analysis for Community Detection - Multi-User Perspective", International Journal of Advanced Engineering Research and Science, Vol-4, Issue-2, Feb- 2017, pp. 57-61.
13. Joe Louis Paul, S. Sasirekha, S. Jesu Iswarya, R. Praveen Chandru, "Fruit Freshness Monitoring System during Transportation - An RFID and WSN based Monitoring System", Pakistan Journal of Biotechnology, Vol. 13 special issue II (International Conference on Engineering and Technology Systems (ICET'16)), March 2017, pp. 29 – 34.
14. R. Mohan Raheja, L. Kishore, I. Joe Louis Paul, "Physiological Analysis of Hypertension Patients by Monitoring the Brain Waves", Pakistan Journal of Biotechnology, Vol. 13, special issue II (International Conference on Engineering and Technology Systems (ICET'16)), March 2017, pp. 83 – 86.
15. Sasirekha, S., and S. Swamynathan, "Fuzzy Rule Based Environment Monitoring System for Weather Controlled Laboratories using Arduino", International Journal of Intelligent Information Technologies (IJIIT), Vol-13, Issue-1, Jan 2017, pp. 50-66.

3.4.4 Details of research awards and recognition received by the faculty and incentives given to faculty.

Please refer to Sections 2.4.4 and 2.4.5.

3.5 Consultancy

3.5.1 Give details of the systems and strategies for establishing institute-industry interface.

The institution has a centralized placement cell to interact with industry. The cell headed by the Senior Manager - Placement acts as a liaison between industries and the academia. Every department has a faculty member who is the department placement co-ordinator. They liaison with industry not only for student placements but also for other industry requirements such as consultancy and joint projects.

The alumni of the institution play an important role in interacting with industry. The graduates of the institute are well regarded and have been instrumental in placements as well as collaborations.

Being part of a larger umbrella organization - Shiv Nadar Foundation created by our Founder, who heads one of the largest IT conglomerates in India, we draw on the expertise from HCL Technology for various projects and events.

3.5.2 What is the stated policy of the institution to promote consultancy? How is the available expertise advocated and publicized?

Every department has a faculty member nominated to the centralised placement cell who works in tandem with the Placement Officer not only to place students but also for collaborations with industry and to obtain consultancy projects. The said faculty member is aware of all the expertise available for the industry in his/her department and pitches the same to the industry through talks or pamphlets wherever applicable.

3.5.3 How does the institution encourage the staff to utilize their expertise and available facilities for consultancy services?

Consultancy and research are given due weightage in assessing the faculty members for their annual appraisals. An incentive of 1% of the amount generated through consultancy work is given to the Principal investigator. The academic and administrative workload is reduced while executing consultancy work.

3.5.4 List the broad areas and major consultancy services provided by the institution and the revenue generated during the last four years.

The details are given in section 3.5.5.

3.5.5 What is the policy of the institution in sharing the income generated through consultancy (staff involved: Institution) and its use for institutional development?

As of now, most of the consultancy services to industries and organizations are advisory in nature. Currently the apportionment of the income is on a case to case basis. The college is working on implementing the ratio. The list of such services done so far is indicated below:

Department of Electrical and Electronics Engineering

Sl. No.	Year	Faculty	Organization to which consultancy is offered	Area of consultancy	Amount earned (Rs. In Lakh)
1	2016 - 2017	1.Dr.A.Kavitha 2.Ms.R.Nithya 3.Ms.D.Kanchana	Horizon Engineering Solutions waterloo, Canada	3D Prosthetic limbs-Design and characterization	7

2	2015	Dr.R.Rengaraj	Siechem Technologies Pvt Ltd, Pondicherry	Performance Improvement of High speed Extrusion and rewinding lines for Wires and Cables	4
3	2011	Dr.R.Arumugam	Lucas-TVS	Weekend Training Programme on "Finite Element Analysis on Electromagnetic Design" Nov/Dec, 2011	0.9

Department of Electronics and Communication Engineering

Sl. No.	Year	Faculty	Organization to which consultancy is offered	Area of consultancy	Amount earned Rs. (lakh)
1	2016	Dr Sakthivel Murugan	SRM University	Under Water Acoustic Research	5750
2	2016	Dr Sakthivel Murugan	Sathyabama University	Under Water Acoustic Research	5750
3	2016	Dr.S.Radha, Dr. K.T. Selvan, Dr.M.Gulam Nabi Alsath, Dr.S.Esther Florence, Dr.S.Ramprabhu	Adhiparasakthi Engineering College, Melmaruvathur	RF and Microwave measurements	5750
4	2016	Dr.S.Radha, Dr. K.T. Selvan, Dr.M.Gulam Nabi Alsath, Dr.S.Esther Florence, Dr.S.Ramprabhu	Sri Venkateswara College of Engineering, Chennai	RF and Microwave measurements	5750
5	2017	Dr.S.Radha, Dr. K.T. Selvan, Dr.M.Gulam Nabi Alsath, Dr.S.Esther Florence, Dr.S.Ramprabhu	Sri Venkateswara College of Engineering, Chennai	RF and Microwave measurements	5750

6	2017	Dr.S.Radha, Dr. K.T. Selvan, Dr.M.Gulam Nabi Alsath, Dr.S.Esther Florence, Dr.S.Ramprabhu	Hindustan University	RF and Microwave measurements	8625
7	2014 – till date	Dr.S.Radha Dr.K.T.Selvan Ms.S.Esther Florence Dr.M.Gulam Nabi Alsath Mr.S.Ramprabhu	Academicians and Research Scholars of other institutes	RF and Microwave Measurements	0.97
8	2012- 2014	Dr.R.Rajavel	IGCAR - Kalpakkam	Course on Digital Signal Processing at BARC Training School	0.45
9	2012	Dr.S.Radha Dr.R.Jayaparvathy Dr.R.Kishore Dr.K.Muthumeenakshi	HCL Technologies	Industry oriented short course on Wireless Technologies	1.97

Department of Computer Science and Engineering

Sl. No.	Year	Faculty	Organization to which consultancy is offered	Area of consultancy	Amount earned (Rs)
1	2014- 2015	Dr.Chitra babu, Dr. T. T. Mirnalinee, Dr. V. Felix Enigo	Caterpillar India Pvt.Ltd, Chennai	Cloud computing, Analytics	Nil
2.	2015- 2016	Dr.Chitra babu, Dr. R. Kanchana	Caterpillar India Pvt.Ltd, Chennai	Cloud computing, Distributed computing,	Nil
3.	2015- 2016	Dr.Chitra Babu Mr. H. Shahul Hammed Dr. Felix Enigo	Manatec Electronics Pvt. Ltd	Kernel, Optimization, Development of Android Application for Tyre Pressure Monitoring System	Nil
4.	2015- 2016	Dr.T.T.Mirnalinee, Dr.R.Kanchana, Dr.V.S.Felix Enigo	ACI Systems and Automation, Chennai, India	Image Processing Application	Nil

Department: **Information Technology**

Sl. No.	Year	Faculty	Organization to which consultancy is offered	Area of consultancy	Amount earned (Rs.)
1	2015-16	Dr. T. Nagarajan	Tamil Virtual Academy	Speech-enabled interactive enquiry system in Tamil	15,000
2	2015-16	Dr. N. Bhalaji	HCL Technologies	Project New Vistas	2,90,000

Department of Chemical Engineering

Sl. No.	Year	Faculty	Organization to which consultancy is offered	Area of consultancy	Amount earned (Rs. In Lakh)
1	2015	Anantharaj R, Sathish Kumar K & Parthiban R	M/s. Sheenlac Paints Limited. Chennai 600 098.	Separation process with Ionic Liquid	2.5

Department of Biomedical Engineering

Sl. No.	Year	Faculty	Organization to which consultancy is offered	Area of consultancy	Amount earned (Rs. In Lakh)
1	2016	Dr. A. Kavitha, Ms. R. Nithya, Ms. D. Kanchana	Horizon Engineering Solutions, Waterloo, Canada	3D Prosthetic limbs- Design and Characterization	7.0

Department of Mechanical Engineering

Sl. No.	Year	Faculty	Company	Nature of Consultancy	Revenue in (Rs. In Lakh)
1	2011	Dr. V.E. Annamalai	Wendt India Ltd	Training on Innovation for Wendt Teams	0.45
2	2012		MMTCL	Training on Knowledge Management	0.15
3	2012		Fenner India Ltd	Training on FTR (First Time Right product development) Training on Problem Solving	0.3
4	2012		Apollo Tyres	Training on Innovation	0.3

5	2015	TAFE. Sembiam	Training on TRIZ	0.05
6	2015	TAFE. Sembiam	Project Review, R&D CFTs	0.08
7	2015	TAFE Sembiam	Training on TRIZ	0.3
8	2015	Tube Investments	Training on Creativity & Innovation	0.1
9	2015	Shanthi Gears, Coimbatore	Training on Creativity & Innovation	0.1
10	2016-17	John Deere, Pune	Training on TRIZ and Creativity [18 & 19-08-16]	0.3
11	2016-17	Ashok Leyland, Chennai	Training on TRIZ [27 & 28-01-17]	0.3

Department of Science and Humanities

Sl. No.	Year	Faculty	Organization to which consultancy is offered	Area of consultancy	Amount earned (Rs. In Lakh)
1	2010-11	Dr.V.S.Gayathri and Dr.K.Yamuna	HCL	Corrosion	1.9
2.	2014-15	Dr.V.S.Gayathri and Dr.K.Yamuna	Adarsh Line Connectors	Material Modification	1.0

Department of Management Studies

Sl. No.	Faculty	Organisation	Year	Area of consultancy	Amount earned (Rs)
1	Dr.Srinivas Gumparathi & Dr.K.Sampath Kumar	HCL Tech	2013-14 & 2014-15	Banking & Risk Management	200,000/-
2	Prof.B.Srinivasan, Dr K Sampath Kumar, Dr.M.Kavitha, & Dr.Srinivas Gumparathi	L&T ECC	2014-15 & 2015-16	Financial Intelligence	1,20,000/-
3	Prof.R.Natarajan	Maxwell Academy Private Ltd	2015-16 & 2016-17	Value Stream Mapping through Toyota Way	54,000/-

3.6 Extension Activities and Institutional Social Responsibilities

3.6.1 How does the institution promote institution-neighbourhood community network and student engagement, contributing to good

citizenship, service orientation and holistic development of students?

The institution encourages promotion of community service through setting-up of various forums and cells to guide the students in these directions. Some of the initiatives are Good Citizens Cell, Youth Red Cross, Rotaract Clubs etc. The Institute also partners with industry bodies to conduct survey and social work in the areas surrounding its campus. One such successful initiative of the college is “Samudhay”, which enumerated the economic, literacy, cultural and health needs of 16 surrounding villages.

3.6.2 What is the Institutional mechanism to track students’ involvement in various social movements / activities which promote citizenship roles?

Faculty members are assigned to all the student bodies, clubs and societies which encourage student involvement in social activities. Faculty keep track of all the activities including the objectives, finances, outcomes and initiatives and present them to the management every month. A faculty member acts as an adviser for Student Affairs and monitors the functioning of all the clubs.

3.6.3 How does the institution solicit stakeholder perception on the overall performance and quality of the institution?

The parent body of the institute commissions a survey by a reputed independent market research agency to solicit the perception of the students, parents and industry.

3.6.4 How does the institution plan and organize its extension and outreach programmes? Providing the budgetary details for last four years, list the major extension and outreach programmes and their impact on the overall development of students.**Outreach Programmes**

The institution was selected to conduct a 10 day Computer Training Programme for Police Personnel by the Government of Tamil Nadu which was successfully done and appreciated by the trainees and their officers.

The Women Empowerment Cell is part of its parent organization at Anna University. Through this, at the instance of the Govt. of Tamil Nadu, the institute trained women from Kanchipuram district, numbering about 30, in fundamentals of computers and gave them training to set up Information Kiosks, to disclose the processes of day to day activities dealing with the government and public bodies for their clients’ needs such as changing address

in a ration card, Patta transfer, RTI act, applying for women self help group etc. Most of them are earning their livelihood, by establishing Information Kiosks in their own villages.

3.6.5 National Service Scheme (NSS) and Youth Red Cross (YRC)

There is a unit of NSS with one Programme Officer and 100 student volunteers, another unit of YRC with about 100 student members with a corresponding Coordinating Officer and a Women Empowerment Cell in the college with a woman faculty member in-charge of it.

Efforts for acquisition of service attitude by students

The NSS wing of the college conducts programmes in villages around the college to educate the villagers on hygiene & sanitation, literacy, women and their status in the society – how to improve it, the employment opportunities available for the youth of the village, protected water supply system, ecology, girls education, awareness of AIDS etc. Students stay in the village for about 10 days a year, live with the villagers, refurbish the school buildings, give a patient hearing to the woes of villagers, discuss with them possible remedies, arrange a veterinary clinic, arrange for health check up by doctors etc. These have certainly inculcated in the minds of the participant students, the dignity of labour and a desire to serve the have-nots.

In addition to these, the NSS and YRC wings jointly organize blood donation camps and organ donation awareness camps in conjunction with the NGOs in the city, the neighbouring Rotary clubs and hospitals. These have been so successful that the hospitals and Rotary clubs are willing to associate themselves with all such activities of the student community. Tobacco is the villain for many human illnesses. The entire campus is tobacco free and a pledge taken by 4000 students, with their palms painted with anti tobacco slogans organized in the campus has gained entry in the Guinness book of world records.

Students in most of the remote villages do not have any idea about the possible scopes for higher studies after +2, and the various scholarship schemes available for them for higher education. Even their parents think that higher education, which will light up the lives of their wards in the future, is beyond their reach. To dispel this, students conduct a programme called 'Vidiyal' (meaning dawn) in at least 27 Government Higher Secondary schools spread over four backward districts, Vellore, Thiruvannamalai, Krishnagiri and Dharmapuri of Tamil Nadu. This programme was very much appreciated by the Collectors of the respective districts and the Directors of Higher Education.

The list of activities conducted by YRC in the year 2016-17 is as below:

Sl. No.	Name of the Event	Date	Venue	No. of Volunteers participated
1	Campus cleaning	04.04.2017	SSN CE	50
2	Orphanage visit	04.03.2017	Annai Fathima illam, Karapakkam	40
3	Blood donation	28.02.2017	SSN CE	25
4	Hospital cleaning	19.02.2017	Kilpauk Govt. Hospital	40
5	Beach Cleaning	18.02.2017	Marina beach, Chennai	40
6	Stem cell registration campaign	11February 2017	SSN CE	30
7	Village camp	26-28 January 2017	Siruthavur, Kancheepuram Dt.	70
8	Orphanage visit	02.10.2016	Arul illam, Kolapakkam	40
9	Campus cleaning camp	28-09-2016	SSN CE	40
10	Blood donation	15.09.2016	SSN CE	25
11	Eye Camp	06.09.2016	SSN CE	20
12	Study camp on 'Child and Drug abuse	05.08.2016	SSN CE	30

Partnership with University for extension activities

The NSS unit of the college is part of the NSS wing of the affiliating University viz. Anna University. The University periodically involves the Programme Officers, of the colleges under its control, for discussion with them about the activities that could be initiated for the betterment of the society at large and specifically that of the villages around.

In pursuance of the 'Clean India' campaign, students did an extensive survey of about 800 households in about 6 villages to assess the requirements particularly, the lack of toilets and lack of proper drinking water facilities.

Benefits reaped by the villages because of the activities

The NSS & YRC units of the college have repaired the school buildings and provided protected water supply lines to the school from the village overhead tank, arranged health camps for the school children, villagers and ladies from the village separately so that they could continue their treatment in

the hospitals brought for the health camp. They choose to do them for three continuous years in the same village so that the fruition of their efforts is visible.

Benefits reaped by the institution by the outreach activities

The institution has earned the good will of the neighbouring villages and has been getting some work force as employees at the college.

3.6.6 Give details on social surveys, research or extension work (if any) undertaken by the college to ensure social justice and empower students from under-privileged and vulnerable sections of society?

In pursuance of the 'Clean India' campaign, students did an extensive survey of about 800 households in about 6 villages to assess the requirements particularly, the lack of toilets and lack of proper drinking water facilities.

Please refer to Section 3.6.5.

3.6.7 Reflecting on objectives and expected outcomes of the extension activities organized by the institution, comment on how they complement students' academic learning experience and specify the values and skills inculcated.

The activities ensure that the students are aware about their surroundings. They become sensitive to the needs of the societies and the activities are designed to ensure that students are well rounded and aware of their responsibilities towards the society apart from just excelling in their own careers.

By living with the villagers, the students tend to understand the dignity of labour, the difficulties faced by the villagers and these in turn shape them into socially aware citizens conscious of their responsibilities to their communities and society at large.

3.6.8 How does the institution ensure the involvement of the community in its reach out activities and contribute to the community development? Detail on the initiatives of the institution that encourage community participation in its activities?

The activities being organized such as Flood Relief, Blood Donation Camps, Clean India campaign etc are not possible without the involvement of the community as a whole, be it the staff residing nearby or the residents of villages. All these require a commitment from all the stakeholders. This commitment is built up by first reaching out to the community through their members working for our college.

3.6.9 Give details on the constructive relationships forged (if any) with other institutions of the locality for working on various outreach and extension activities.

The NSS unit of the college is part of the NSS wing of the affiliating University viz. Anna University. The University periodically involves the Programme Officers of the colleges under its control, discusses with them the activities that could be initiated for the betterment of the society at large and specifically that of the villages around.

3.6.10 Give details of awards received by the institution for extension activities and/contributions to the social/community development during the last four years.

The college NSS Unit has received the Best NSS Programme Officer Award, Best NSS Unit award and 11 volunteers received the Best NSS Volunteer Award for three successive years and State Award for one year from Anna University, Chennai.

3.7 Collaboration

The MoUs with Industries, R & D organizations, NGOs and Universities of repute are listed in 3.1.5. The college has been conducting National and International conferences on various themes. These conferences have several sessions chaired by eminent scientists besides academicians from reputed institutions. Some of them are funded by the SSN Trust and others by funding agencies. A list of National / International conferences organized by the college during 2016-17 is given below:

August 19, 2016	Chemical	National Conference on Chemical Energy and Environmental Engineering (CEEE)
September 15, 2016	Civil	Second National Conference on Advances in Civil Engineering
December 01-03, 2016	Mathematics	Third National Conference on Reliability and Safety Engineering
January 10 - 11, 2017	IT	International Conference on Computer, Communication and Signal Processing, ICCSP - 2017
February 02, 2017	Chemical	National Conference on Sustainable Trends in Energy and Environmental Resources (STEER)
February 03-04, 2017	Civil	National Conference on Disaster Mitigation, Responsiveness and Management

February 29, 2017	Chemical	National Conference on Advances in Chemical, Biological and Environmental Engineering: (ACBEE)
February 10, 2017	Chemical	2nd International Conference on “Recent Advancements in Chemical, Environmental & Energy Engineering” (RACEEE-2017)
March 03, 2017	Chemical	National Conference on Sustainable Energy and Environmental Science, Engineering and Technology
March 16-18, 2017	EEE	International Conference on Power and Embedded drive Control (ICPEDC 2017)
	BME	IEEE Sponsored International Conference on Biosignals, images and instrumentation (ICBSII 2017).
March 17-18, 2017	Chemical	National Conference on Green Chemical Process and Sustainable Technologies (GCPST 2017)
March 22-24, 2017	ECE	IEEE International Conference on Wireless Communications, Signal processing and Networking (WiSPNET-2017)
March 24, 2017		Workshop on Construction Management – Best Practices
March 31, 2017	Mechanical	National Conf. for Mechanical Engineering Research Scholars (MERS-2017)
April 07-08, 2017	English	A Two day National Conference on ‘Does INPUT equal INTAKE while teaching English as a Second Language?’

CRITERION IV: INFRASTRUCTURE AND LEARNING RESOURCES

4.1 Physical Facilities

4.1.1 What is the policy of the Institution for creation and enhancement of infrastructure that facilitate effective teaching and learning?

The stated policy is to provide world class infrastructure to the students of the institute. In line with this policy, the institute has a sprawling campus spread over 250 acres with modern buildings, technology-enabled classrooms (Eg. E-learning, Moodle-based teaching etc.), well stocked libraries, spacious hostels for the students, seminar halls and auditoria. The institute focuses on overall development of students and hence, infrastructure for sports and extra-curricular activities is a very important focus. The institute has a modern indoor sports complex as well as facilities for outdoor sports such as Basketball and Tennis alongwith an international standard cricket ground and football field.

4.1.2 Infrastructural facilities available

The college has 105 classrooms, 86 spacious laboratories and 10 seminar halls for the conduct of the courses for all the eight UG and twelve PG programmes. In addition, 190 faculty rooms, rest rooms exclusively for boys and girls and a students' activity centre for organizing students' events centrally, such as blood donation camp, entrepreneur week etc., separate halls for the conduct of examinations, two drawing halls, a hall for NSS activity are available.

For Sports, besides spacious play fields and courts for outdoor games, there is a Sports Centre housing a basketball court of international standard, two squash courts, a spacious hall for a number of indoor games and two fitness centres separately for boys and girls.

The physical academic infrastructure and information on the supporting infrastructure are shown in the following tables:

Physical Infrastructure for academic activities

Sl. No.	Dept	Class Rooms		Tutorial Rooms		Laboratories		Seminar Halls		Departmental Library	
		No	Unit Area Sq.m	No	Unit Area Sq.m	No	Unit Area Sq.m	No	Unit Area Sq.m	No	Unit Area Sq.m
1	EEE	8	100	1	54	14	227.5	1	194	1	78
2	ECE	16	95	3	58.7	12	136	1	100	1	100
3	CSE	6 3	115 48	3	48	12	117	1	188	1	60
4	IT	6	115	2	49	7 1	137 180	2	152	1	120
5	Chem	4 1	112 55	2	55	6	210	1	196	1	54
6	BME	3	112.5	2	112	6	241	1	196	1	24
7	Mech	10	93.2	1	101	15	245	1	125	1	56
8	Civil	4 2	112 55	2	55	8 1	241 55	1	196	1	54
9	S & H	13	93	4	93	1 1 1	300 300 150	-	-	-	-
10	MBA	6	90	2	30	2	151	1	350	1	315

Career Development Cell

Location		No	Area of Each Room (sqm)	Overall Area (sqm)
First Floor	Interview Rooms	18	8	144
	Meeting Rooms	1	30	30
		2	18	36
		2	21	42
	Discussion room	1	23	23
	Electrical Room	1	9	9
	Dining Room	1	41	41
	Dean Room	1	18	18
	Office 1	1	18	18
	Placement Officer	1	13	13
	Toilet - Students	1	44	44
	Toilet - Staffs	1	16	16
				434
Second Floor	Computer Lab	1	151	151
	Examination Hall	1	341	341
	Electrical Room	1	9	9
	Utility Room	1	20	20
	Toilet - Students	1	44	44
	Open Terrace	1	97	97
				662

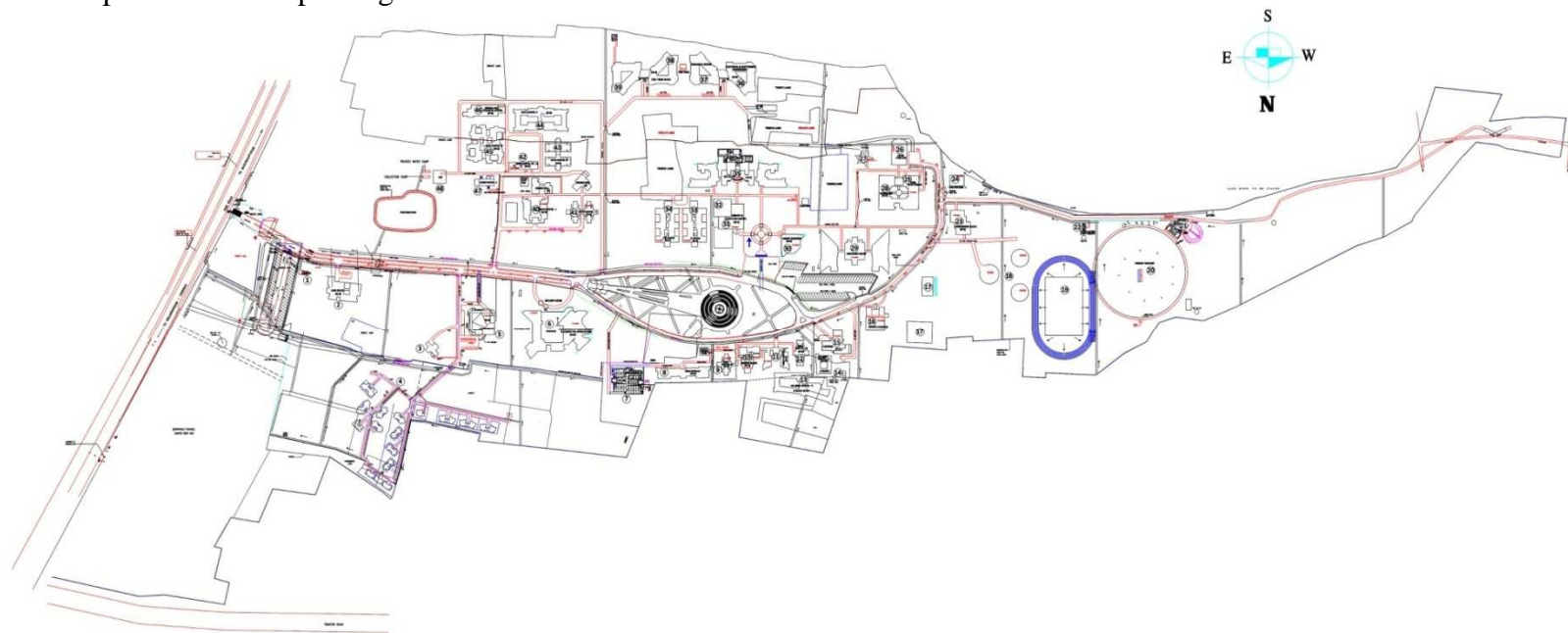
Supporting Infrastructure

Sl. No.	Description	Details of facility available
1	Auditoria	One each of 1000, 300, 200 capacity.
2	Sports facilities	Indoor One basketball court, 2 badminton courts, table tennis hall, 2 squash courts and two fitness centres one for boys and the other for girls. Outdoor Cricket ground of International standards with pavilion and facility for net practice, Foot ball ground surrounded by running track, Synthetic Tennis court two Nos., Volley ball court one & two Basket ball courts with gallery and flood lights.
3	Power	TNEB Power supply with sanctioned load 1320 kVA

		Number of Diesel Generators: 8 with a total capacity 1580 kVA.
4	Networking	Entire campus networked with fibre optic cables; 24 hour Internet connectivity with a band width of 310 Mbps; about 450 Wi-Fi points spread over the entire campus including hostels.
5	Medical Aid	A full fledged doctor, nurse and an emergency van available; A dispensary with two beds and essential medicines available for the use of students and faculty in the quarters.
6	Transport	42 buses available for students to commute from the city to the college and back.
7	Community service	One NSS and One YRC Units are functioning
8	Park, Green cover, STP and rain water harvesting	The entire area is landscaped and a park by name Vamasundari park is available in the campus over an area of about 3 acres. A full fledged STP is available and the treated water is being used for maintaining the landscaping and park. The rainwater over the area is drained into a pond thus harvesting rain water. Nine 7m diameter and three 15m diameter shallow wells serve the water needs of the campus.
9	Drinking water	Drinking water is provided through 7 Nos. of RO units of 500 litres per hour for the hostels and canteen and 70 Nos. of RO units of 50 litres per hour for the academic blocks.
10	Quarters	Quarters are available for 65 families within the campus.
11	Canteen	Canteen has a seating capacity of 750.
12	Food Courts	Four numbers of food courts are available.

4.1.3 Master Plan

The master plan of the campus is given below:



SSN INSTITUTIONS KALAVAKKAM - 603 110	BUILDING NUMBER	BUILDING NAME	BUILDING NUMBER	BUILDING NAME	BUILDING NUMBER	BUILDING NAME	BUILDING NUMBER	BUILDING NAME	SITE MAP
	1	TEMPLE	17	OUT DOOR GAMES	27	PLACEMENT & HR OFFICE	37	RESEARCH CENTRE	
	2	SASE AND SACE BLOCK	18	HELIPAD	28	WORKSHOP	38	CH.E BLOCK	
	3	GUEST HOUSE	19	FOOTBALL GROUND	29	MECHANICAL BLOCK	39	BME BLOCK	
	4	STAFF QUARTERS	20	CRICKET GROUND	30	ADMINISTRATIVE BLOCK	40	ANIMAL HOUSE	
	5	AUDITORIUM BLOCK	21	CRICKET PAVILION	31	CENTRAL LIBRARY	41-45	GENTS HOSTELS	
	6	SoMCA BLOCK	22	STORE ROOM CUM TOILET	32	COMPUTER CENTRE	46	GENTS DINING HALL	
	7-13	LADIES HOSTELS	23	HUMANITIES BLOCK	33	IT BLOCK	47	SECONDARY SUBSTATION	
	14	UG SUMP	24	PRIMARY SUBSTATION	34	CSE BLOCK	48	STP	
	15	CANTEEN	25	MINI AUDITORIUM	35	ECE BLOCK	↑	YOU ARE HERE	
	16	SPORTS COMPLEX	26	CORE LAB	36	EEE BLOCK			

4.1.4 How does the institution ensure that the infrastructure facilities meet the requirements of students with physical disabilities?

Provision of wheel chairs, ramps for most of the buildings, location of most of the labs in the ground floor and disabled friendly toilets are features meant to assist students with physical disabilities.

4.1.5 Residential facilities

The details of hostels and the residential quarters for the faculty and staff within the campus are shown below:

Details of Staff Quarters within the Campus

Sl. No.	Details of the Quarters	Floors	Unit Area in Sq.m
1	Principal Quarters (1 No.)	G+1	170
2	Professors Quarters (4 Nos.)	G+1	1020
3	(2 Nos.)	G+1	
4	Asso. Professors Quarters (4 Nos.)	G+1	1332
5	(6 Nos.)	G+2	
6	Asst. Professors Quarters (12 Nos.)	G+1	2700
7	(18 Nos.)	G+2	
8	Non-teaching		
9	Lab Attenders (12 Nos.)	G+1	624
10	Lab Assistant (6 Nos.)	G+2	430

Details of Students Hostels

Name of the Hostels	Tl. Pl. Area in Sq.m	Carpet Area in Sq.m	No. of Rooms	Total beds	Room with Att. toilet		Single Rooms		Double Rooms		Triple Rooms	
					Nos.	Cp. Area in Sq.ft./Room	Nos.	Cp. Area in Sq.ft./Room	Nos.	Cp. Area in Sq.ft./Room	Nos.	Cp. Area in Sq.ft./Room
LH –I	3085	2715	88	176	0	0	0	0	88	165	0	0
LH –II	1557	1370	48	80	4	109	12	113	32	183	0	0
LH –III	2191	1928	48	142	1	120	0	0	0	0	47	235
LH-IV	4905	4316	96	290	2	120	0	0	0	0	96	235
LH-V (PG)	14585	12835	517	449	94	168	347	97	4			
LH-V (PG) international Student				72	72	199						
LH-VI	6164	5424	131	393							131	235

Total	32487	28588	928	1602	173		359		124		274	
GH –I	3923	3452	112	224	0	0	0	0	112	165	0	0
GH –II	3657	3218	96	192	0	0	0	0	96	183	0	0
GH –III PG	1683	1481	75	75	8	125	67	97	0	0	0	0
GH-IV	5516	4854	96	284	2	120	0	0	0	0	94	235
GH-V	9990	8791	189	569	2	120	0	0	0	0	189	235
GH-VI (PG)	9675	8514	245	245	111	120	134	100	0	0		0
GH-VII (PG)	10777	9484	327	327	185		142					
Total	45221	39794	1140	1916	308		343		208		283	

4.1.6 What are the provisions made available to students and staff in terms of health care on the campus and off the campus?

An allopathic doctor is available round the clock in the campus. A qualified nurse, a small clinic with two beds, essential emergency drugs, a van to commute between the nearby Chettinad Hospitals and the college, are made available, to meet the health needs of students and residents of the campus.

4.1.7 Common Facilities available on the campus

A placement cell, headed by a qualified Senior Manager - Placement, with an office is available in the campus. The Placement activities start during the early seventh semester and continue till the end of the eighth semester. An exclusive building of about 1800 sq.m. has been built for placement activities, near the library so that online tests and interviews can be conducted without detriment to classroom and library activities of the college.

Please refer to Sections 2.5.7 and 4.1.2.

4.2 Library as a Learning Resource

4.2.1 Does the library have an Advisory Committee? Specify the composition of such a committee. What significant initiatives have been implemented by the committee to render the library, student/user friendly?

Yes, the library has an Advisory Committee.

One of the HoDs is the Chairman for the Library Advisory Committee, and one faculty from each department are members with Librarian as the Secretary. For the year 2015-16, the HoD, Mechanical Engineering Department was the Chairman. The objectives derived for the committee are:

- To provide general directions to the Library.

- To review the functioning of the library with regard to its support to the conduct of academic programmes of the institute.
- To outline the library collection & development policy and ensure its implementation.
- To monitor and evaluate, from time to time, trends and developments in library related information, usage of ICT, networking, library automation, library cooperation etc., and to direct the library towards modernisation.
- To evaluate the suggestions made by the library users and adopt them if feasible.

4.2.2 Provide details of the following:

- Total area of the library : 1800 Sq.m.
- Total seating capacity : 150
- Working hours (throughout the year):
Working days – 8.00 am to 8.40 pm
Holidays – 8.00 am to 3.40 pm
- Layout of the Library
Individual reading carrels : 764 Sq.m.

(no individual cabins are given, the figure indicates reading area provided)

- Lounge area for browsing and relaxed reading : 101 Sq.m.
- IT zone for accessing e-resources : 86 Sq.m.

4.2.3 How does the library ensure purchase and use of current titles, print and e-journals and other reading materials? Specify the amount spent on procuring new books, journals and e-resources during the last four years.

The faculty, after requisite research and interaction with their colleagues and research counterparts, submit their suggestions for the required books to their HoDs. This is discussed in the departmental faculty meeting and after a consensus indicated to the Library committee, which recommends the list to the Principal who in turn directs the librarian for procurement within the assigned the budget. Occasionally, books are purchased directly from book exhibitions and the purchase ratified later. As far as journals are concerned, they are subscribed as a package as recommended by the AICTE and also through information from Professional societies. The number of books procured for the library and the cost incurred during the past 4 years are given in the following Table:

Library holdings	CFY – 1 (2013-14)		CFY – 2 (2014-15)		CFY – 3 (2015-16)		CFY – 4 (2016-17)	
	Number	Total Cost Rs.	Number	Total Cost Rs.	Number	Total Cost Rs.	Number	Total Cost Rs.
Text books	5251	22,04,880	4696	23,02,875	5132	25,01,065	312	1,27,471

Reference Books	145	7,94,462	117	6,81,937	166	13,46,532	25	1,03,669
General and Story books	440	90,947	645	56,891	620	60,238	8	1030
Journals/ Periodicals	293	15,63,886	320	17,21,242	363	23,93,722	15	29,336
e-resources	12 Data bases	40,46,259	12 Data bases	47,82,719	12 Data bases	52,31,705	1 Data base)	4,35,528
DVD - English Movies	-	-	-	-	-	-	-	-
RF ID and Library Management Software	-	-	-	2230625	-	-	-	-

4.2.4 Provide details on the ICT and other tools deployed to provide maximum access to the library collection?

- OPAC
- Library Management Software KOHA
- Electronic Resource Management package for e-journals

IEL – Level 2 (unlimited user)	306 e-Journals 7073 IEEE Conference 1889 IEEE standards with all back files
ACM – Association for Computing Machinery	136 Journals
ASCE - American Society for Civil Engineering	36 Journals
ASME - American Society for Mechanical Engineering	29 Journals
ASTM - American Society of Testing and Materials	6 Journals with 13,000 Journals Articles
JGATE – Engineering	4532 Journals
Science Direct – Engineering + Computer Science	275 Journals
Science Direct – Chemical Engineering	30 Journals
Springer Link	586 Journals
McGraw-Hill e-book	321 books

JGATE – Management	4329 Journals
EBSCO Host– Management	1155 Journals
NPTEL Video	110 Numbers
NPTEL Web Courses	129 Numbers

- Federated searching tools to search articles in multiple databases:
J-Gate - Engineering and Management
- Library Website : <http://www.ssn.net/twiki/bin/view/SsnIntranet/>
The library can be accessed through Intranet
- In-house/remote access to e-publications: Department News Letters
- Library automation : KOHA Library s/w
- Total number of computers for public access: 20
Total No. of printers for public access: 5–Canon 8080 model
- Internet band width/ speed : 310 Mbps
- Institutional Repository : -Nil-
- Content management system for e-learning: It is done by the
Departments
- Participation in Resource sharing networks /consortia:
AICTE Consortium

4.2.5 Provide details on the following items:

- Average number of walk-ins : 370 Users
- Average number of books issued/returned : 100
- Ratio of library books to students enrolled : 20:1
- Average number of books added
during last three years : 17212 Vols.
- Average number of login to OPAC : 500
- Average number of login to e-resources : 300
- Average number of e-resources downloaded
/printed : 200
- Number of information literacy trainings organized: -Nil-
- Details of “weeding out” of books and other materials: So far, no
books or other materials have been weeded out from the library.

4.2.6 Give details of the specialized services provided by the library

- Manuscripts : -Nil-
- Reference
 1. Location of materials is displayed in the stack area.
 2. Help Desk – Library Assistants are always available for
Personal assistance to identify various library resources and
provide library services.

3. Library related information / queries are provided by the Librarian through intercom / phone and email.

- Book search assistance through OPAC software.
- Reprography : 5 numbers – Canon 8080 model
- ILL (Inter Library Loan Service):
DELNET, MLIBNET, Anna University and British Council
- Information deployment and notification :Through Display Board
- Down load: Facility available & permitted
- Printing : Five printers are available
- Reading list / Bibliography compilation : OPAC – Online Public Access Catalogue
- In-house/remote access to e-resources : Available
- User Orientation and awareness : Available
- Assistance in searching Databases : Available
- INFLIBNET/IUC facilities : Not available

4.2.7 Enumerate on the support provided by the Library staff to the students and teachers of the college.

1. To arrange Inter Library Loan.
2. Online learning facilities such as NPTEL.
3. Send articles through email.

4.2.8 What are the special facilities offered by the library to the visually/physically challenged persons? Give details.

Ramp with handrails is available for physically challenged persons. Braille material is not available in the library for use of the visually challenged persons.

4.2.9 Does the library get the feedback from its users? If yes, how is it analysed and used for improving the library services.

Feedback form is used for rating the library services. Based on this we have introduced (a) barcode (b) RF ID (c) online renewals and (d) Book Bank for Rural Scholarship students.

4.3 IT Infrastructure

4.3.1 Give details on the computing facility available (hardware and software) at the Institution:

- Computers and their configuration: 2,230 computers are available in the college.

The cluster of computers and their configurations are given below:

Sl. No.	Type	Configuration	Number
1	Desktop	HCL Intel Core i7	81

2	Desktop	HCL Intel Core i5	389
3	Desktop	HCL Intel Core 2 duo	401
4	Desktop	HCL Pentium D	150
5	Desktop	HCL PIV	80
6	Desktop	HCL AMD Athlon	38
7	Laptop	HCL Laptop	115
8	Desktop	Dell Intel core i5	181
9	Laptop	Dell Laptop	24
10	Desktop	HP AMD Desktop	576
11	Laptop	HP Laptop	66
12	Server	Server	50
13	Thin	Sun thin client + HCL thin client	30
14	Apple	Apple	49

- Computer-student ratio : 1:2; Besides every student has a laptop
- Stand alone facility : Available
- LAN facility : Available
- Wi-Fi facility : The entire campus is Wi-Fi enabled; No. of Wi-Fi points 450
- Licensed Software : Campus wide software available
- Number of nodes with Internet facilities: All computers have internet facility

4.3.2 Detail of the computer and internet facility made available to the faculty and students on the campus and off-campus:

The Internet facility is available for all faculty and students in campus. The college is about 35 km away the city; hence, it is for the individual, to have the net connection on his/her own for Off-campus browsing.

4.3.3 What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?

The bandwidth has been progressively increased from 256 kbps to 310 Mbps over a period of 20 years as the need arises. For ease of access, the entire campus has been made Wi-Fi enabled with about 450 Wi-Fi points spread over the entire campus, including hostel rooms, library, labs and canteen thus enabling the student to browse the web from a location convenient to them. One printer per 15 computers is provided in the labs, Central and departmental offices and hostels besides library. This is generally done at the request of the faculty concerned or HoD or Librarian.

4.3.4 Provide details on the provision made in the annual budget for procurement, upgradation, deployment and maintenance of the computers and their accessories in the institution for the last four years.

There is a group designated as Computer and Internet Software COMmittee (CISCO), headed by a senior professor, with a mandate to recommend to the management the need for upgrading existing machines, replacing the obsolete ones with new ones, maintenance of the networking system, purchase of ancillaries such as switches, routers, printers etc. The AMC is given only for those equipment, which could not be repaired and maintained by the technical staff of the college. Based on the recommendations of the committee, provision is made in the annual budget. The suggestions for upgradation normally comes from the departments, discussed in the departmental faculty meetings and then forwarded to CISCO group to take them forward. In addition, heavy duty printers and associated servers etc., as specified by the University for the conduct of examinations are also made available. The provision made in the annual budget during the past four years is given in the following Table:

Particulars (Rs. Lakhs)	2012-13	2013-14	2014-15	2015-16	2016-17	
	Actual	Actual	Actual	Actual	Budget	Actual
Procurement Made	140	210	345	53	402	359
Upgradation	17	49	59	68	85	11.13
Replacement	16	22	70	8	60	63
Maintenance	19	36	28	36	48	29
Total	191	317	501	164	594	462.13

4.3.5 How does the institution facilitate extensive use of ICT resources including development and use of computer-aided teaching/learning materials by its staff and students?

Most of the circulars to and replies from the faculty, unless mandated to be in printed form, are by default through e-mail. The information about academic schedule (other than that from university), transport, events information, visits of dignitaries are all posted on the Web. The pre-class material by the teacher, as indicated earlier, is uploaded in the intranet for students to prepare for the following class. The student can even post his doubts to the teacher through intranet. All classrooms are equipped with a laptop, a roof mounted LCD projector, white screen facilitating the teacher to project teaching material he might have brought or directly from the net, which the students can see or access them later; thus, making the class more interesting. The teacher also indicates information on various resources available. Students, forming their own groups, interchange ideas, get to know the schedule of events

and other information through the intranet. Thus, the ICT resources are extensively used in the campus.

4.3.6 Elaborate giving suitable examples, on how the learning activities and technologies deployed (access to on-line teaching-learning resources, independent learning, ICT enabled classrooms/learning spaces etc.) by the institution, place the student at the centre of teaching-learning process and render the role of a facilitator for the teacher.

A typical entry in the teacher's log book submitted to the HoD is indicated below.

SSN COLLEGE OF ENGINEERING

Rajiv Gandhi Salai (OMR)
Kalavakkam - 603 110

CLASS RECORD

CLASS : V SEM, MECH-B

SUBJECT : ME2303 DESIGN OF M/C
ELEMENTS

PERIOD : JULY-2014

NAME S. SURESH KUMAR

DESIGNATION ASSOCIATE PROFESSOR

DEPARTMENT MECHANICAL

The logo for SSN College of Engineering, featuring the letters 'SSN' in a stylized, bold, blue font.

SSN COLLEGE OF ENGINEERING

Rajiv Gandhi Salai (OMR)


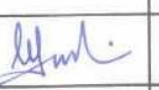





Kalavakkam - 603 110

NAME : S. SURESH KUMAR

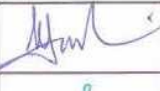
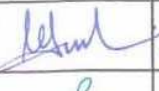
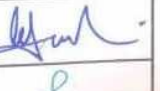


DESIGNATION : ASSOCIATE PROFESSOR

DEPARTMENT : MECHANICAL ENGINEERING

Subject : I : ME 2303 DESIGN OF HIC ELEMENTS

Month Reviewed by	First	Second	Third	Final
HOD				
Principal				

Subject : II : ME 2404 Computer aided simulation & analysis lab

Month Reviewed by	First	Second	Third	Final
HOD				
Principal				

CLASS			SEM		SUBJECT I																						
Reg. No.	NAME	Month Date Period																									
			06 25/06 4	06 26/06 5	06 27/06 1	06 28/06 2	06 29/06 3	06 30/06 4	06 01/07 5	06 02/07 1	06 03/07 2	06 04/07 3	06 05/07 4	06 06/07 5	06 07/07 1	06 08/07 2	06 09/07 3	06 10/07 4	06 11/07 5	06 12/07 1	06 13/07 2	06 14/07 3	06 15/07 4	06 16/07 5			
4064	Kunhan Sunderam	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
65	Nallandram .K	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
66	Naveen B	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
67	Naveen S	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
68	Naveen Yesudian	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
69	Naveen Kumar Krishnan R	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
70	Nukhul Anto V	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
71	Nisarg Gupta	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
72	Nivedh Kamma S.B	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
73	Pacthiban . A	10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
74	Paagadish kartik R	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
75	Parasanna M	12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
76	Praveen C	13	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
77	Praveen R	14	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
78	Pratheem Hasinath	15	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
79	Raghu B	16	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
80	Ramanathan R	17	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
81	Ramethi K	18	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
82	Ranganath N.V	19	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
83	Ranjan Dags T.B	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
84	Rudhrababu S.K	21	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
85	Sagar Mahathasa	22	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
86	Sai Tanvi Kudala	23	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Total No. of Absentees																											
Initial of Faculty																											

M	7	1	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
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CLASS		SEM	
Reg. No.	NAME	Month	Date
			Perio
1	Hob4 Kothan Sundaram	1	1
2	65 Nallendram. K	2	1
3	66 Naveen. B	3	1
4	67 Naveen. S	4	1
5	68 Naveen Yesudhan	5	1
6	69 Naven Kumar Krishnan	6	1
7	70 Nikhil Anto V	7	1
8	71 Nisarg Gupta	8	1
9	72 Nivedh Kannaa S.	9	1
10	73 Paarthiban. A	10	1
11	74 Pragadish kartik f	11	1
12	75 Prasanna M	12	1
13	76 Praveen c	13	1
14	77 Praveen R	14	1
15	78 Preetham Haenath	15	1
16	79 Raghu B	16	1
17	80 Ramanathan R	17	1
18	81 Rameesh K	18	1
19	82 Ranganatha N.V	19	1
20	83 Roopan Dags T.B	20	1
21	84 Rudhrababu S. K	21	1
22	85 Sagar Malhotra	22	1
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10	73 Paarthiban. A	10	1
11	74 Pragadish kartik f	11	1
12	75 Prasanna M	12	1
13	76 Praveen c	13	1
14	77 Praveen R	14	1
15	78 Preetham Haenath	15	1
16	79 Raghu B	16	1
17	80 Ramanathan R	17	1
18	81 Rameesh K	18	1
19	82 Ranganatha N.V	19	1
20	83 Roopan Dags T.B	20	1
21	84 Rudhrababu S. K	21	1
22	85 Sagar Malhotra	22	1
23	86 Sai Tanvi Uudaka	23	1
Total No. of Absentees			
Initial of Faculty			

CLASS		SEM	
Reg. No.	NAME	Month	Date
			Perio
1	Hob4 Kothan Sundaram	1	1
2	65 Nallendram. K	2	1
3	66 Naveen. B	3	1
4	67 Naveen. S	4	1
5	68 Naveen Yesudhan	5	1
6	69 Naven Kumar Krishnan	6	1
7	70 Nikhil Anto V	7	1
8	71 Nisarg Gupta	8	1
9	72 Nivedh Kannaa S.	9	1
10	73 Paarthiban. A	10	1
11	74 Pragadish kartik f	11	1
12	75 Prasanna M	12	1
13	76 Praveen c	13	1
14	77 Praveen R	14	1
15	78 Preetham Haenath	15	1
16	79 Raghu B	16	1
17	80 Ramanathan R	17	1
18	81 Rameesh K	18	1
19	82 Ranganatha N.V	19	1
20	83 Roopan Dags T.B	20	1
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7	70 Nikhil Anto V	7	1
8	71 Nisarg Gupta	8	1
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10	73 Paarthiban. A	10	1
11	74 Pragadish kartik f	11	1
12	75 Prasanna M	12	1
13	76 Praveen c	13	1
14	77 Praveen R	14	1
15	78 Preetham Haenath	15	1
16	79 Raghu B	16	1
17	80 Ramanathan R	17	1
18	81 Rameesh K	18	1
19	82 Ranganatha N.V	19	1
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8	71 Nisarg Gupta	8	1
9	72 Nivedh Kannaa S.	9	1
10	73 Paarthiban. A	10	1
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13	76 Praveen c	13	1
14	77 Praveen R	14	1
15	78 Preetham Haenath	15	1
16	79 Raghu B	16	1
17	80 Ramanathan R	17	1
18	81 Rameesh K	18	1
19	82 Ranganatha N.V	19	1
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6	69 Naven Kumar Krishnan	6	1
7	70 Nikhil Anto V	7	1
8	71 Nisarg Gupta	8	1
9	72 Nivedh Kannaa S.	9	1
10	73 Paarthiban. A	10	1
11	74 Pragadish kartik f	11	1
12	75 Prasanna M	12	1
13	76 Praveen c	13	1
14	77 Praveen R	14	1
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16	79 Raghu B	16	1
17	80 Ramanathan R	17	1
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19	82 Ranganatha N.V	19	1
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21	84 Rudhrababu S. K	21	1
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Total No. of Absentees			
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CLASS		SEM	
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Total No. of Absentees			
Initial of Faculty			

CLASS		SEM	
Reg. No.	NAME	Month	Date
			Perio
1	Hob4 Kothan Sundaram	1	1
2	65 Nallendram. K	2	1
3	66 Naveen. B	3	1
4	67 Naveen. S	4</	

CLASS	Reg. No.	NAME	SEM		Montl Date	Perio	ASSIGNMENT / TEST									
							1	2	3	4	5	6	7	8	9	10
1	64	Lupham Sundaram	8	8	8	8	1	1	1	1	1	1	1	1	1	1
2	65	Nallandram. K	8	8	8	8	1	1	1	1	1	1	1	1	1	1
3	66	Naveen. B	8	8	8	8	1	1	1	1	1	1	1	1	1	1
4	67	Naveen S	8	8	8	8	1	1	1	1	1	1	1	1	1	1
5	68	Naveen Yesudian	8	8	8	8	1	1	1	1	1	1	1	1	1	1
6	69	Naveen Kumar Krishnan	8	8	8	8	1	1	1	1	1	1	1	1	1	1
7	70	Nukhul Anto V	8	8	8	8	1	1	1	1	1	1	1	1	1	1
8	71	Nisarg Gupta	8	8	8	8	1	1	1	1	1	1	1	1	1	1
9	72	Nivedh Kannan S.	8	8	8	8	1	1	1	1	1	1	1	1	1	1
10	73	Pasthikan. A	8	8	8	8	1	1	1	1	1	1	1	1	1	1
11	74	Pragadish karthik	8	8	8	8	1	1	1	1	1	1	1	1	1	1
12	75	Prasanna M	8	8	8	8	1	1	1	1	1	1	1	1	1	1
13	76	Praveen C	8	8	8	8	1	1	1	1	1	1	1	1	1	1
14	77	Praveen R	8	8	8	8	1	1	1	1	1	1	1	1	1	1
15	78	Preetham Hasinath	8	8	8	8	1	1	1	1	1	1	1	1	1	1
16	79	Raghul B	8	8	8	8	1	1	1	1	1	1	1	1	1	1
17	80	Ramanathan R	8	8	8	8	1	1	1	1	1	1	1	1	1	1
18	81	Ramethi K	8	8	8	8	1	1	1	1	1	1	1	1	1	1
19	82	Ranganath N.V	8	8	8	8	1	1	1	1	1	1	1	1	1	1
20	83	Raopan Doss T.B	8	8	8	8	1	1	1	1	1	1	1	1	1	1
21	84	Rudrababu S.K	8	8	8	8	1	1	1	1	1	1	1	1	1	1
22	85	Sagar Halothsa	8	8	8	8	1	1	1	1	1	1	1	1	1	1
23	86	Sai Tanvi Kudala	8	8	8	8	1	1	1	1	1	1	1	1	1	1
Total No. of Absentees																
Initial of Faculty																

RECORD OF CLASS WORK		
DATE	PORTIONS COVERED	INITIAL OF FACULTY
23/06/14	Introduction to MC design steps	S. S. S. S.
25/06/14	Simple stresses on MC components	S. S. S. S.
26/06/14	Principal stresses - Intro + Problems	S. S. S. S.
27/06/14	Formulas of failure - Introduction	S. S. S. S.
30/06/14	Problems on stresses to failure	S. S. S. S.
01/07/14	Introduction to eccentric loading	S. S. S. S.
02/07/14	Problems on eccentric loading	S. S. S. S.
03/07/14	Problems on curved beam design	S. S. S. S.
04/07/14	Introduction to fatigue - S-N curve, types of load, endurance limit	S. S. S. S.
07/07/14	Problems on fatigue loading	S. S. S. S.
08/07/14	Combined fatigue loading Problem	S. S. S. S.
09/07/14	Introduction to limits, fits + tolerances	S. S. S. S.
10/07/14	Problems on limits + tolerances	S. S. S. S.
14/07/14	Introduction to shaft design	S. S. S. S.
	Torsion, bending loads	S. S. S. S.
15/07/14	Shaft design with two pulleys	S. S. S. S.
16/07/14	Shaft design with two gears	S. S. S. S.
21/07/14	Shaft design with multiple gears + pulleys	S. S. S. S.
22/07/14	Shafts subjected to SS + over	S. S. S. S.
	hanging end conditions	S. S. S. S.
23/07/14	Shaft design - tutorials	S. S. S. S.
24/07/14	Introduction to couplings - flange	S. S. S. S.

RECORD OF CLASS WORK		
DATE	PORTIONS COVERED	INITIAL OF FACULTY
28/11/14	Problems on flange coupling design, Design Procedure	S. S. S. S.
31/01/14	Design of bushed pin flexible coupling, components + pin design	S. S. S. S.
4/08/14	Design of mabb coupling	S. S. S. S.
5/08/14	Introduction to welded joints	S. S. S. S.
6/08/14	Design of double 11 single transverse welded joint - axial loading	S. S. S. S.
07/08/14	Welded joint design - eccentric load	S. S. S. S.
08/08/14	Introduction to bolted joint design	S. S. S. S.
11/08/14	Problems on bolted joint design	S. S. S. S.
12/08/14	Bolted joints subjected to eccentric loading	S. S. S. S.
14/08/14	Problems on bolt failures	S. S. S. S.
18/08/14	Problems continuation - Bolted joints	S. S. S. S.
19/08/14	Introduction to Cotter + knuckle joints	S. S. S. S.
20/08/14	Design calculations of cotter joints	S. S. S. S.
21/08/14	Design of sleeve + cotter joint	S. S. S. S.
25/08/14	Design of cotter + spigot joint	S. S. S. S.
26/08/14	Introduction to rivetted joints	S. S. S. S.
	Types, failure modes + design	S. S. S. S.
27/08/14	Problems on rivetted joint design	S. S. S. S.
28/08/14	Problems continuation	S. S. S. S.
15/09/14	Introduction to spring design, leaf	S. S. S. S.
16/09/14	Design of springs, Energy storage element	S. S. S. S.

[illegible]

TIME TABLE

DAYS	1	2	3	4	5	6	7	8
MON					ME 2303			
TUE	ME 2303						ME2404 Simulation + Analysis Lab	
WED		ME 2303		ME2404 Simulation + Analysis Lab				
THU						ME 2303 (CT)		
FRI	ME 2303 (Test)							
SAT								

The uploaded learning material relating to the course “Linear Integrated Circuits” for third semester, EEE and the course ‘Solar Energy Storage Systems’ for third semester M.E. Power Electronics & Drives is available at the following addresses of SSN intranet for viewing.

Sample E -learning contents for some of the courses offered are indicated below

<http://www.ssn.net/twiki/bin/view/Main/LIC2015> (3rd semester EEE)

<http://www.ssn.net/twiki/bin/view/Main/SOLARANDENERGYSTORAGESTEMS> (3rd semester M.E. PED)

<http://www.ssn.net/twiki/bin/view/EceIntranet/EC2302-B-13> (5th semester ECE - Principles of Digital Signal Processing)

[http://www.ssn.net/twiki/bin/view/EceIntranet/AE-VL7201\(E\)-13](http://www.ssn.net/twiki/bin/view/EceIntranet/AE-VL7201(E)-13) (3rd semester M.E. – Applied Electronics – CAD for VLSI)

<http://www.ssn.net/twiki/bin/view/MechIntranet/MechEngDynofMach>
 (ME6505 Dynamics of machines -MS.Alphin V sem A section
<http://www.ssn.net/twiki/bin/view/MechIntranet/MechStrenofmater> (ME 6411-
 Mfg Tech lab II-M.Dhanancezhian-IV sem A Section)
<http://www.ssn.net/twiki/bin/view/CivilIntranet/CE2401AY1516> (B.E. Civil
 Engg. - VII Semester – CE2401 Design of Reinforced Concrete & Brick
 Masonry Structures – Ms. P. Sangeetha)
<http://www.ssn.net/twiki/bin/view/PhyIntranet/PhyElearning>
<http://www.ssn.net/twiki/bin/view/EceIntranet/EceEngPhy-A-15>

4.3.7 Does the institute avail of the National Knowledge Network connectivity directly or through the affiliating university? If so what are the services availed of?

Anna University relays lectures in certain topics of subjects, generally found by student community to be tough, as interactive lectures through EDUSAT, with the help of experts in the subjects. To the extent the time tables permit, students assemble at a hall in the college, where it is projected, and if they have any doubt, they clarify it, with the exponent on line for the benefit of all viewers.

To obviate the difficulty of non synchronisation of the relay time and the time of availability of student, the college has procured some lectures in the form of CDs, and they are available at the library, which a desiring student can view in the room meant for this purpose; alternatively, he can borrow the CD from the library and view it in his laptop at his own place of convenience. As many as 2000 such CDs are available in the library for students to use.

4.4 Maintenance of Campus Facilities

4.4.1 Financial resources for maintenance and up keep of campus facilities:

The funds allotted for various facilities and spent for maintenance of the same are given below for four years:

Particulars (Rs Lakhs)	2012-13	2013-14	2014-15	2015-16	2016-17	
	Actual	Actual	Actual	Actual	Budget	Actual
Building	1,712	1,523	2,677	2,257	3,825	2533
Furniture	50	81	116	26	73	100
Lab Equipments	73	148	286	253	155	152
Computer	172	252	339	99	439	423
Vehicle	27	6	4	-	4	3
Total	2,042	2,010	3,422	2,635	4,496	3211

4.4.2 Institutional mechanism for maintenance and upkeep of the infrastructure

There are specific personnel appointed for maintenance of infrastructure (buildings, furniture and transport). These people, on a daily basis, will report to the Head of Construction & Facilities (HoC & F) any breakages and other maintenance requirements, and HoC & F arranges to get them rectified. The technical staff attached to the respective laboratories service the equipment to the extent possible. When they become non serviceable, they report the matter to the faculty in-charge of the laboratory and he in turn refers the same to the HoD, who arranges to get them repaired. Due to the large number of computers and networking, a Systems Administrator and a Network administrator with their staff look after the maintenance of computers and the networking. Any major fault is reported to the Professor in-charge of CISCO, who then arranges to undertake the repairs.

4.4.3 Calibration of various equipment and instruments

This is left to the faculty in-charge of the respective laboratories, to decide when the meters are to be calibrated and instruments serviced. Calibration of one meter in a particular group is outsourced to a Standards Organisation or its authorized agents. Using this calibrated meter as the standard, the other meters are calibrated by the technicians in the laboratory. The equipment are serviced annually by the local technical staff and if it is beyond their capacity, they refer it to the HoD, who arranges for repairing them.

4.4.4 Maintenance of sensitive equipment, Power and Water supply

The power is supplied by the Electricity Board with a peak load of 1320 kVA, and it is augmented by eight diesel generators capable of giving a backup power of 1580 kVA. The generators are maintained as and when the repair occurs, on a call basis; the day-to-day maintenance is done by the technical staff attached to the substation. There are about 120 UPS systems of various capacities in the campus, for server rooms and the lab equipment needing uninterrupted power supply. They are normally maintained by an AMC.

Water supply is from nine 7m diameter and three 15m diameter shallow wells. Water is pumped to the over-head reservoir and the outflow to the campus is by gravity. The drinking water is through 7 Nos. of 500 litres RO plants for the hostels & canteen and 70 Nos. of 50 litres per hour RO plants for the academic blocks, providing drinking water supply to the campus 24 × 7 at various service points. There is a Sewage Treatment Plant (STP), which effectively treats the waste water. This treated water is used for maintaining the green campus.

CRITERION V: STUDENT SUPPORT AND PROGRESSION**5.1 Student Mentoring and Support****5.1.1 College Calendar**

The college calendar, which is distributed to all faculty and students, contains besides Vision and Mission of the college, information regarding first and last working days of odd and even semesters, probable dates for cycle tests, dates for prominent events, holidays, facilities available and hostel rules (University regulations & rules are available in the University website).

5.1.2 Student scholarship schemes

SSN is known for its liberal scholarship schemes that ensure 'nobody is deprived of quality Engineering education for want of funds'. Certain features of the scholarship scheme are mentioned below:

General:

The institution offers attractive student scholarships to encourage merit and to make education accessible to students of all economic strata. The Institution has initiated a thriving tradition of about 500 scholarships extended every year to meritorious and deserving students.

Types of scholarships:

There are seven types of scholarships:

- (i) Merit Scholarships
- (ii) Merit cum Means Scholarships
- (iii) Tuition fee waiver Scholarships
- (iv) Walk-in Walk-out Scholarships
- (v) Rural Scholarships and
- (vi) PG Scholarships
- (vii) Sports Scholarships

Merit Scholarships

Scholarships are awarded to meritorious students, based on their academic performance at the qualifying examinations for fresher; and in the case of senior students, the performance during the previous year. The scholarship also offers a waiver of tuition fees and special fees. All the engineering and MBA programs at this Institution are covered under the scholarship program.

Merit-cum-Means Scholarships

Every academic year, several scholarships are awarded on the criteria of merit-cum-means. The scholarship offers a waiver of tuition fees and special

fees. Academic performance and demonstrated economic need are the key criteria for this scholarship.

Waiver of Tuition Fees

First year students of the College who secure the highest marks in the +2 examinations have their entire tuition fees waived for the first academic year. Similarly, senior students are offered scholarships on the basis of their previous year's performance.

Walk-in-Walk-out Scholarships

The Top Ten Rank holders of any State or Central Board Examination at the +2 or any equivalent level are entitled to pursue the B.E. or B.Tech. degree at SSN College of Engineering without payment of tuition fees and special fees.

Scholarship to Toppers of Rural Government Higher Secondary Schools

Twenty five scholarships are awarded to Government School Toppers from rural areas to pursue the B.E. or B. Tech. degree at SSN College of Engineering from the academic year 2008 – 09.

Post Graduate Scholarships

In order to promote research and encourage meritorious students to pursue post graduate studies, scholarships are awarded to candidates with University rank or GATE score of 90+ percentile admitted to M.E. /M. Tech. programmes in Engineering.

Sports Scholarships

Sports Scholarships are awarded to students with an outstanding record in sports. Typically, students who have represented the State at National level competitions conducted by accredited Sports Boards are also eligible for the same.

Others

In addition to the above, Scholarships are awarded by the Alumni of the college and also by external philanthropists for students who excel in Specific Games and also for Fine Arts like Classical Music as well.

The quantum of the above scholarships, disbursed during 2016-17 is given below:

Sl. No.	Type of Scholarship	Course	Total No. of students	Total Scholarship in Rs.
1	Merit Scholarship	B.E./B. Tech. / M.E./MBA	139	57,29,000
2	Walk-in Walk-out Scholarship	B.E./B. Tech. / M.E.	5	7,50,100

3	Means Scholarship	B.E./B.Tech. / M.E. /MBA	50	23,93,325
4	Rural Scholarship	B.E./B. Tech.	99	1,85,66,580
5	Sports Scholarship	B.E./B. Tech. / M.E.	22	5,58,000
6	Vidya Gyan Scholarship	B.E./B. Tech.	7	14,85,740
7	Alumni Scholarship	B.E./B. Tech. / M.E./MBA	20	7,45,000
8	Staff Ward's Scholarship	B.E./B. Tech. / M.E./MBA	8	1,40,000
9	AICTE Fee Waiver	B.E./B. Tech.	76	15,20,000
7	Classical Carnatic Music Vocal Scholarship	B.E. / B. Tech.	4	2,10,000
Total			430	3,20,97,745

5.1.3 What percentage of students receive financial assistance from State Government, Central Government and other National agencies?

About 25% of students apply and get the State and Central Government Scholarships under various scholarship schemes and the amount is directly credited into their bank accounts.

5.1.4 Specific support services / facilities available for students

While the State and Central Governments take care of financially and socially deprived students from SC/ST, OBC, the Management extends a helping hand to economically weaker students, rural students, students who are excelling in sports, Fine Arts etc as described in 5.1.2. by way of a large number of scholarships.

Ramps and special toilets have been constructed for the students with physical disabilities. A full-fledged doctor, a qualified nurse, a two bed clinic and a van meet the emergency medical needs of those living in the campus. Chettinad Medical college Hospitals always extend a helping hand to SSNites.

The institution though admits students under NRI and PIO quota as permitted by the Government, it does not admit other over seas students.

Though the institution as such is not conducting coaching classes for competitive examinations, a group of students with the help of Alumni of SSN do conduct such classes for GATE, TOEFL and TNPSC examinations on their own. When they want class rooms, SSN provides them free of rent. Special classes for the needy in English and Foreign languages are conducted. Special

coaching classes in the regular subjects are also conducted during evenings for the benefit of rural, lateral entry and vocational stream students.

It is the policy of the Institution that good innovative ideas come from a free mind. This is best achieved by making students participate in as many extra curricular activities as they desire. To facilitate this, we have several clubs like elocution club, quiz club, music club and fine arts club in which students eagerly participate irrespective of region, board, language, sex or community.

Special classes are conducted for slow learners during the First and second semesters, as mentioned earlier. During third semester, special classes are conducted for lateral entry students, specifically in Mathematics and English communication. During the first year, to facilitate Tamil medium students, special classes are conducted, after college hours to remove the inhibitions they might have, to attend classes conducted in English, irrespective of the communal status.

A qualified psychologist student counsellor, available in the campus, freely mingles with students to gain their confidence, identifies and mentors students with depression, psychological problems and even gender related issues. A team of faculty with a lady faculty as Chairperson is available, to deal with cases of sexual harassment within the campus. It is noteworthy that, so far, there was no need for a meeting of that team.

Each major department publishes a quarterly magazine, to highlight the activities of the department. It also encourages the students to exhibit their literary, scientific achievements and artistic talents.

5.1.5 Describe the efforts made by the institution to facilitate entrepreneurial skills, among the students and the impact of the efforts.

The institution has set up an Entrepreneurship Development Cell (EDC) on campus. EDC is purely a student run body and encourages entrepreneurial spirit by organizing B Plan contests, events and talks by entrepreneurs.

The institution has also entered into an MoU with Ministry of MSME to set up an incubation centre and provide funding opportunities to emerging entrepreneurs in the MSME space.

5.1.6 Enumerate the policies and strategies of the institution which promote participation of students in extracurricular and co-curricular activities such as sports, games, Quiz competitions, debate and discussions, cultural activities, etc.

SSN offers excellent facilities for sports. There are gyms and playing areas for various sports. Dedicated coaches at the sports centre help students fine tune their games. Sports tournaments are organized and students participate in tournaments in other states and cities. Sports uniforms are sponsored either by management or other industry organizations.

Management funds students to conduct technical and cultural festivals. Students are encouraged to participate in cultural fests in other colleges.

English Literary Club, Dramatic club, EDC, SSN MUN, Departmental Associations, NSS, YRC and others are adequately encouraged to keep the students engaged in several extra curricular and co-curricular activities on campus and also outside.

5.1.7 Enumerating on the support and guidance provided to the students in preparing for the competitive exams, give details on the number of students appeared and qualified in various competitive exams such as UGC-CSIR- NET, UGC-NET, SLET, ATE / CAT / GRE / TOFEL / GMAT / Central /State services, Defense, Civil Services, etc.

Career Development Cell of the institute organizes talks and events by experts from various fields of the industry. It also ensures that various external agencies conduct classes on campus to train students on GRE/GMAT, GATE, IAS, TNPS examinations etc. Officers from defense services address students. Also, experts from foreign universities address the students on nuances of studying abroad from time to time.

5.1.8 What type of counselling services are made available to the students

A qualified psychologist student counsellor, available in the campus, freely mingles with students to gain their confidence, identifies and mentors students with depression, psychological problems and even gender related issues. A team of faculty is available, to deal with cases of sexual harassment within the campus. It is noteworthy that so far there was no need for a meeting of that team.

5.1.9 Does the institution have a structured mechanism for career guidance and placement of its students? If 'yes', detail on the services provided to help students identify job opportunities and prepare themselves for interview and the percentage of students selected during campus interviews by different employers.

Placement training is given to all students during their Third year, during the college hours, allotting two hours a week in the time table itself, using external trainers. The success of the training is reflected in the number of

companies visiting the campus for placement. The companies which have visited the campus, the programmes and the percentage of students who were placed during the previous four years are shown in the following Table:

Sl. No.	Year	Companies visited	Eligible Programmes	% of students placed
1	2012-13	Thought Works Technologies Ltd	B.E./B.Tech.	90.16%
2		Arabian Industries LLC (New)	B.E.	
3		Ashok Leyland Ltd	B.E./B.Tech.	
4		Lister Technology Ltd	B.E./B.Tech.	
5		Athena Health Technology Ltd	B.E./B.Tech.	
6		Zoho Corporation Ltd (New)	B.E./B.Tech. / M.E./M.Tech.	
7		Ascendant Technology	B.E./B.Tech.	
8		Hospira (New)	B.E./B.Tech.	
9		Ericson India Global Service Ltd (New)	B.E./B.Tech.	
10		Intix Internet (Pvt) Ltd (New)	B.E./B.Tech. / M.E./M.Tech. /	
11		Microsoft India, India Development Centre, Hyderabad (New)	B.E./B.Tech.	
12		Renault Nissan Tech & Business Centre India Pvt. Ltd.	B.E./B.Tech. / M.E./M.Tech.	
13		Rane Group of Company	B.E.	
14		Exeter group of company	B.E.	
15		Larsen & Toubro Ltd, Mumbai.(New)	B.E.	
16		Sanmar Engineering Technology (ENG.DIV)	B.E.	
17		Sanmar Engineering Technology (Foundry.DIV)	B.E.	
18		Chemplast Sanmar Ltd (Chemical Div)	B.E.	
19		Ford Motors India.	B.E.	
20		Ford Technology Services India.	B.E./B.Tech.	
21		Larsen & Toubro Ltd - ECC Division	B.E.	
22		Global Analytics India (New)	B.E./B.Tech.	
23		Cognizant Technology Solutions Ltd.	B.E./B.Tech. / M.E./M.Tech.	
24		Infosys Ltd	B.E./B.Tech. / M.E./M.Tech.	
25		HCL Technology Ltd	B.E./B.Tech. / M.E./M.Tech.	
26		Intergraph Consulting Ltd (New)	B.E./B.Tech.	
27		Tata Elxsi Ltd	B.E./B.Tech.	
28		Petrofac Engineering Ltd	B.E./B.Tech.	
29		Flextronics	B.E./B.Tech.	
30		MU Sigma	B.E./B.Tech.	
31		Madras Cement (New)	B.E.	
32		Fuji Xerox (New)	B.E./B.Tech. / M.E./M.Tech.	
33		Technip India (New)	B.E./B.Tech.	

34	Enzen Global Solution Ltd (New)	B.E./B.Tech.	
35	Computer Science Corporation	B.E./B.Tech.	
36	Siva Group (New)	B.E./B.Tech.	
37	L&T Valdel Engineering Services Pvt. Ltd. (New)	B.E./B.Tech.	
38	Zifo Technology, Chennai (New)	B.E.	
39	Temenos (New)	B.E.	
40	Asahi India Glass Ltd, Gurgaon. (New)	B.E./B.Tech.	
41	Health Mantra India Ltd, Bangalore (BME)	B.E./B.Tech.	
42	NTT DATA GLOBAL DELIVERY SERVICES Ltd	B.E./B.Tech.	
43	MYBOWERBIRD	B.E./B.Tech.	
44	L&T Infotech, Mumbai. (New) (VLSI)	M.E	
45	Albatross Solutions	B.E.	
46	Lucas TVS Ltd. (M.E. PED)	M.E	
47	Concentrix	B.E.	
48	Global English	B.E.	
49	Composite Pipe Industries LLC, Oman.(New)	B.E.	
50	Saint Gobain Glass India	B.E./B.Tech.	
51	Hyundai Motor India Engineering Pvt. Ltd, R & D, Hyderabad.	B.E.	
52	PNB Paribas (New)	B.E./B.Tech.	
53	Black N Green, Chennai. (New)	B.E./B.Tech.	
54	Nokia India Pvt. Ltd.	B.E./B.Tech.	
55	Hibrise Technologies Pvt. Ltd (New)	B.E.	
56	Trimble Spime India Tech. Pvt. Ltd	B.E./B.Tech.	
57	American Megatrends India Pvt. Ltd (AMI INDIA)	B.E./B.Tech.	
58	Info Trellis, Chennai.	B.E./B.Tech.	
59	Visteon	B.E.	
60	Accenture Technologies	B.E./B.Tech.	
61	Xitadel	B.E./B.Tech.	
62	Lucid Software Technologies	B.E./B.Tech.	
63	IBM, Bangalore	B.E./B.Tech.	
64	City Union Bank	MBA	73.4%
65	L & T Infotech	MBA	
66	Zoho	MBA	
67	GSK	MBA	
68	One Globe Systems	MBA	
69	Janalakshmi Finance Services	MBA	
70	Vista Soft	MBA	
71	ITC	MBA	
72	Covenant India	MBA	
73	Shriram Capital	MBA	
74	HCL Tech	MBA	
75	Sundaram Fasteners	MBA	
76	TCS	MBA	
77	Loyal Textile Mills	MBA	

78		Smartmegh Solutions	MBA	
79		Kaleesuwari	MBA	
80		Aspire Systems	MBA	
81		Coca Cola	MBA	
82		Sinto Bharath	MBA	
83		Madras Cements	MBA	
84		X Code	MBA	
85		BNY Mellon	MBA	
86		Axis Bank	MBA	
87		Eurocon Tiles	MBA	
88		Butterfly Appliances	MBA	
89		TNQ Books & Journals	MBA	
90		Tring Apps	MBA	
91		Karya Technologies	MBA	
92		Trans Learn Solutions	MBA	
93		Kumaran Systems	MBA	
94		Real Image Media	MBA	
95		Auro Media	MBA	
96		Systech Solutions	MBA	
97		99 Acres	MBA	
98		Enzotech	MBA	
1	2013-14	Amazon.Com	B.E./B.Tech.	90.01%
2		The Elitists	B.E./B.Tech.	
3		Thought Works Technologies Ltd	B.E./B.Tech.	
4		Mu Sigma	B.E./B.Tech.	
5		Zoho Corporation Ltd	B.E./B.Tech. / M.E./M.Tech.	
6		Latent View Analytics	B.E./B.Tech. / M.E./M.Tech.	
7		Lister Technology Ltd	B.E./B.Tech.	
8		ITC Paper Board & Speciality Paper Division	B.E./B.Tech.	
9		Multicoreware, Chennai	B.E./B.Tech. / M.E./M.Tech.	
10		Dell India R&D	B.E.	
11		Ascendant Technology	B.E./B.Tech.	
12		Loyal Textiles	B.E.	
13		Danfoss India.	B.E. / M.E	
14		Info Trellis India	B.E./B.Tech.	
15		Indian Navy	B.E./B.Tech.	
16		Wipro Technology	B.E./B.Tech.	
17		Cognizant Technology	B.E./B.Tech. / M.E./M.Tech.	
18		Trimble Information Technologies India Pvt. Ltd	B.E./B.Tech.	
19		L&T ECC	B.E.	
20		Infosys Technology	B.E./B.Tech. / M.E./M.Tech.	
21		Ashok Leyland Ltd	B.E.	

22	Microchip, Chennai.	B.E.
23	Unisys India Pvt. Ltd.	B.E.
24	Sanmar Engineering Technology (Eng. Div)	B.E.
25	Sanmar Engineering Technology (Foundry. Div)	B.E.
26	Chemplast Sanmar Ltd (Chemical Div)	B.E.
27	Ford Motors India	B.E.
28	Ford Business Services Centre Pvt. Ltd.	B.E.
29	Ford Technologies Services India (FTSI)	B.E./B.Tech.
30	Zifo Technology	B.E.
31	Indix India Ltd, Chennai.	B.E./B.Tech. / M.E./M.Tech.
32	Fuji Xerox, Japan	B.E./B.Tech. / M.E./M.Tech.
33	Hibrise Technology	B.E.
34	Polaris Financial Technology Ltd	B.E./B.Tech.
35	Verizon Data Service India Pvt. Ltd.	B.E./B.Tech. / M.E./M.Tech.
36	Mobius Knowledge Services	B.E./B.Tech.
37	Datacert	B.E./B.Tech.
38	Sundaram Clayton	B.E.
39	Prodapt Solutions	B.E./B.Tech.
40	India Property Online Pvt. Ltd.	B.E./B.Tech.
41	Zoho Corporation - Developing & Content Writer Division	B.E./B.Tech. / M.E./M.Tech.
42	Precision Equipment Pvt. Ltd, Chennai.	B.E./B.Tech.
43	Flextronics India Ltd	B.E./B.Tech.
44	Sonata Software India Ltd	B.E./B.Tech.
45	Godrej And Boyce Mfg. Co. Ltd.	B.E.
46	Visteon Technical & Services Centre	B.E.
47	BNP Paribas India Solutions	B.E./B.Tech. / M.E./M.Tech.
48	Intergraphs Solution Ltd	B.E./B.Tech. / M.E./M.Tech.
49	IBM, Bangalore.	B.E./B.Tech. / M.E./M.Tech.
50	Alcatel Lucent	B.E./B.Tech.
51	Saint-Gobain Glass India	B.E./B.Tech.
52	Asahi Glass India.	B.E./B.Tech.
53	Ba Continuum India Pvt. Ltd.	B.E./B.Tech.
54	Technip India Pvt. Ltd.	B.E.
55	Computer Science Corporation	B.E./B.Tech.
56	Athena Health Technologies, Chennai.	B.E./B.Tech.
57	Kone Elevator India Pvt. Ltd.	B.E./B.Tech.
58	Citrisys Solutions	B.E./B.Tech.
59	Tata Consultancy Services	B.E./B.Tech.
60	L & T Infotech	B.E./B.Tech. / M.E./M.Tech.

61	Rane Group Of Companies, Chennai.	B.E.	66.6%
62	Shasun Pharmaceuticals Ltd	B.E.	
63	Coding Mart Technologies, Chennai.	B.E./B.Tech.	
64	Saipem India.	B.E./B.Tech.	
65	Samsung Research India. Bangalore.	B.E./B.Tech.	
66	Cofrugul Technologies Pvt. Ltd.	B.E./B.Tech.	
67	Igate Global Solutions Ltd, Bangalore.	B.E.	
68	Health Mantra, Bangalore.	B.E.	
69	Practo Technologies Pvt. Ltd.	B.E.	
70	Excelacom Technologies	B.E./B.Tech.	
71	Saint-Gobain (Adhesive Division)	B.E.	
72	Tata Communications	B.E.	
73	L&T - Powai, Mumbai.	B.E./B.Tech.	
74	Nokia Software Solutions	B.E./B.Tech.	
75	Sinto Bharat, Chennai.	B.E.	
76	Tata Elxsi Ltd	B.E./B.Tech.	
77	Indiapiston, Chengalpat.	B.E.	
78	Archean Groups	B.E.	
79	Ebay Paypal	B.E./B.Tech.	
80	Vvdm Technologies, Chennai.	B.E.	
81	Parry Agro Industries (Murugappa Group)	B.E.	
82	Samsung Electronics India Pvt. Ltd.	B.E./B.Tech.	
83	HCL Infosystems	MBA	
84	Indus Ind Bank	MBA	
85	ING Vysya Bank	MBA	
86	HCL Technologies	MBA	
87	CTS	MBA	
88	Naukri.com	MBA	
89	Janalakshmi Finance Services	MBA	
90	TCS	MBA	
91	GRE Edge	MBA	
92	Videocon	MBA	
93	99 acres.com	MBA	
94	GATI India	MBA	
95	RBS	MBA	
96	Citi Bank	MBA	
97	Latent View	MBA	
98	TTK Prestige	MBA	
99	ITC Hotels	MBA	
100	Smartmegh Consultants	MBA	
101	Karya Technologies	MBA	
102	Justdial	MBA	
103	ICICI Securities	MBA	
104	Vodafone	MBA	
105	Axis Bank	MBA	
106	Echo VME	MBA	
107	KVN Promo	MBA	
108	Aspire Systems	MBA	

109		Akzo Nobel	MBA	
110		Shiksha.com	MBA	
1	2014-15	Amazon.com	B.E./B.Tech.	91.35%
2		Zoho Corporation	B.E./B.Tech. / M.E./M.Tech.	
3		Mu Sigma	B.E./B.Tech.	
4		Vembu Technology	B.E./B.Tech. / M.E./M.Tech.	
5		Ascendant Technology	B.E./B.Tech.	
6		L&T ECC Division	B.E.	
7		Success Factors	B.E./B.Tech.	
8		Latent View Analytical	B.E./B.Tech. / M.E./M.Tech.	
9		Lister Technology	B.E./B.Tech.	
10		Fidelity India, Bangalore	B.E./B.Tech.	
11		Vulcan Technology, Chennai	B.E./B.Tech. / M.E./M.Tech.	
12		ITC Paper Board Division	B.E./B.Tech.	
13		Polaris FT	B.E./B.Tech.	
14		Thoughtwokrks Technology	B.E./B.Tech. / M.E./M.Tech.	
15		Accenture Technology	B.E./B.Tech. / M.E./M.Tech.	
16		Cognizant Technology	B.E./B.Tech. / M.E./M.Tech.	
17		Infosys Technology	B.E./B.Tech. / M.E./M.Tech.	
18		Wipro Technology	B.E./B.Tech.	
19		Bosch Ltd	B.E./B.Tech.	
20		Multicoreware Technology	B.E./B.Tech. / M.E./M.Tech.	
21		Temenos	B.E./B.Tech.	
22		Aspire Systems	B.E./B.Tech.	
23		Infotrellis	B.E./B.Tech.	
24		TATA Communications	B.E./B.Tech.	
25		L&T Infotech Ltd	B.E./B.Tech. / M.E./M.Tech.	
26		Tech Mahendra Ltd	B.E./B.Tech.	
27		Verizon	B.E./B.Tech. / M.E./M.Tech.	
28		Prodapt Solutions Ltd	B.E./B.Tech.	
29		Excellacom	B.E./B.Tech.	
30		Daimler India Commercial Vehciles Pvt. Ltd	B.E.	
31		Thorogood, Banglore.	B.E./B.Tech.	
32		Fuji Xerox, Japan.	B.E./B.Tech. / M.E./M.Tech.	
33		HP R&D, Banglore.	B.E./B.Tech.	
34		Danfoss India	B.E./B.Tech.	

35	Datascert India, Chennai.	B.E./B.Tech.
36	Intergraph, Hyderabad.	B.E./B.Tech.
37	Sundaram Fasteners	B.E.
38	Sanmar Engineering Division	B.E.
39	Sanmar Chemplast	B.E.
40	Wipro Global Infrastructure Services	B.E.
41	Saint-Gobain India, Chennai.	B.E.
42	BA Continuum India	B.E./B.Tech.
43	Ford Technologies Service India.	B.E./B.Tech.
44	Ford Motors	B.E.
45	Caterpillar India Pvt. Ltd.	B.E./B.Tech.
46	Computer Science Corporation Ltd	B.E./B.Tech.
47	Mobius Knowledge Services	B.E./B.Tech.
48	Evive Software Pvt. Ltd.	B.E./B.Tech.
49	HCL Technologies Ltd.	B.E./B.Tech.
50	Petrofac Engineering Services India Pvt. Ltd.	B.E.
51	Astra Zeneca	B.E./B.Tech. / M.E./M.Tech.
52	Ashok Leyland Ltd.	B.E.
53	Microchip India	B.E./B.Tech.
54	TATA Elxsi	B.E./B.Tech. / M.E./M.Tech.
55	Global Analytics	B.E./B.Tech.
56	NMSworks Software Pvt. Ltd.	B.E./B.Tech.
57	GlobalSoft Solutions	B.E./B.Tech.
58	ideas2it Technologies Pvt. Ltd.	B.E./B.Tech.
59	Technip	B.E./B.Tech.
60	Flextronics	B.E./B.Tech.
61	Lucid software India, Chennai.	B.E./B.Tech.
62	CaratLane, Chennai.	B.E./B.Tech. / M.E./M.Tech.
63	Rane Groups, Chennai.	B.E.
64	Shriram Transport & Finance Ltd.	B.E.
65	Karya Technology India Pvt. Ltd.	B.E./B.Tech.
66	Oracle India Pvt. Ltd, Hyderabad.	B.E./B.Tech. / M.E./M.Tech.
67	Visa Inc, Bangalore.	B.E./B.Tech.
68	Flipkart Internet Pvt. Ltd.	B.E./B.Tech.
69	Plintron India, Chennai.	B.E./B.Tech.
70	Bonfigiloli Transmissions Pvt. Ltd.	B.E./B.Tech.
71	Manali Petro Chemicals Ltd.	B.E./B.Tech.
72	Fesh Desk	B.E./B.Tech.
73	Enmas GB Power Systems Project Ltd.	B.E./B.Tech. / M.E./M.Tech.
74	Symantec Software and Services India Pvt. Ltd,	B.E./B.Tech.
75	Turbo Energy Ltd.	B.E./B.Tech. / M.E./M.Tech.

76		Sellerworx	B.E./B.Tech.	
77		SAP Labs India Ltd, Bangalore.	B.E./B.Tech.	
78		Cloudcherry Analytics Pvt. Ltd, Chennai.	B.E.	
81		Hyundai Motor India Ltd.	B.E./B.Tech. / M.E./M.Tech.	
82		TransSys Solutions Pvt. Ltd.	B.E.	
83		Sunoida Solutions Pvt. Ltd.	B.E./B.Tech.	
84		HCL Technologies	MBA	80%
85		Smartmegh Consultants	MBA	
86		Axis Bank	MBA	
87		BNP Paribas	MBA	
88		HCL Infosystems	MBA	
89		CTS	MBA	
90		Aditya Birla Insurance	MBA	
91		Kotak Mahindra Bank	MBA	
92		Sensiple Software	MBA	
93		GRE Edge	MBA	
94		TCS	MBA	
95		ICICI Securities	MBA	
96		ITC	MBA	
97		Cerebrus Consultants	MBA	
98		Hexaware Technologies	MBA	
99		ING Vysya	MBA	
100		HDFC Mutual Fund	MBA	
101		Titan	MBA	
102		AMUL India	MBA	
103		Magicbricks.com	MBA	
104		Hitachi	MBA	
105		Turbo Energy	MBA	
106		Bhartiya Fashions	MBA	
107		Dell India	MBA	
108		Janalakshmi Financial Services	MBA	
109		IndusInd Bank	MBA	
110		Credit Mantri	MBA	
111		Idea Cellular	MBA	
112		Preethi Kitchen Appliances	MBA	
113		Audi Cars	MBA	
114		SRF Ltd.	MBA	
115		Vodafone	MBA	
116		Reliance Communication	MBA	
1	2015-16	Johnson Controls India Pvt. Ltd. Chennai.	B.E / B.Tech.	87.08%
2		Zifo Technology, Chennai.	B.E / B.Tech.	
3		Mu Sigma Business Solutions Pvt. Ltd.	B.E / B.Tech.	
4		Amazon.com	B.E / B.Tech. & M.E./M..Tech.	
5		Real Image Media Technology, Chennai.	B.E / B.Tech. & M.E./M..Tech.	
6		Temenos	B.E / B.Tech.	

7	ThoughtWorks Technology	B.E / B.Tech. & M.E./M..Tech.
8	Fidelity India, Bangalore	B.E / B.Tech.
9	Zoho Corporation	B.E / B.Tech. & M.E./M..Tech.
10	Sundaram Auto Components Ltd.	B.E / B.Tech.
11	Harita Fehrer Ltd (Sundaram Clayton)	B.E / B.Tech.
12	Evive Software Pvt. Ltd.	B.E / B.Tech. & M.E./M..Tech.
13	Intellect Design (Polaris)	B.E / B.Tech.
14	DELL R&D, Bangalore.	B.E / B.Tech.
15	Lister Technology	B.E / B.Tech.
16	TATA Elxsi, Bangalore.	B.E / B.Tech. & M.E./M..Tech.
17	Trimble Technology, Chennai.	B.E / B.Tech. & M.E./M..Tech.
18	Volante Tech.	B.E / B.Tech. & M.E./M..Tech.
19	Latent View Analytics, Chennai.	B.E / B.Tech.
20	Go Frugal, Chennai.	B.E / B.Tech. & M.E./M..Tech.
21	Fresh Desk, Chennai.	B.E / B.Tech.
22	Multicoreware Technology	B.E / B.Tech.
23	Verizon	B.E / B.Tech.
24	Infotrellis	B.E / B.Tech. & M.E./M..Tech.
25	Hyundai Motor India Ltd.	B.E / B.Tech. & M.E./M..Tech.
26	Infosys Technology	B.E / B.Tech. & M.E./M..Tech.
27	Cognizant Technology	B.E / B.Tech. & M.E./M..Tech.
28	L&T ECC, Chennai.	B.E / B.Tech. & M.E./M..Tech.
29	Wipro Technology	B.E / B.Tech.
30	Accenture Technology	B.E / B.Tech.
31	TATA Consultancy Services	B.E / B.Tech. & M.E./M..Tech.
32	SRF Ltd, Chennai.	B.E / B.Tech.
33	Robert Bosch, Coimbatore.	B.E / B.Tech.
34	Ashok Leyland Ltd.	B.E / B.Tech.
35	ABB India Ltd, Bangalore.	B.E / B.Tech.
36	Dow Chemicals Ltd, Chennai.	B.E / B.Tech.
37	Fuji Xerox, Japan.	B.E / B.Tech. &

			M.E./M..Tech.	
38		Sundram Fasteners, Chennai.	B.E / B.Tech. & M.E./M..Tech.	
39		SAP Labs India, Bangalore.	B.E / B.Tech.	
40		KLA Tencor	B.E / B.Tech.	
41		CherryTin Online Pvt. Ltd.	B.E / B.Tech.	
42		McKinsey & Company	B.E / B.Tech.	
43		Sanmar Engineering Division	B.E / B.Tech.	
44		Sanmar Chemplast Division	B.E / B.Tech.	
45		Deloitte Consulting India Pvt. Ltd.	B.E / B.Tech. & M.E./M..Tech.	
46		Global Analytics Inc, Chennai.	B.E / B.Tech. & M.E./M..Tech.	
47		BA Continuum India. Chennai.	B.E / B.Tech.	
48		MRF India Pvt. Ltd	B.E / B.Tech.	
49		Valeo India Pvt. Ltd.	B.E / B.Tech. & M.E./M..Tech.	
50		Coda Global Software Solutions Pvt. Ltd.	B.E / B.Tech. & M.E./M..Tech.	
51		Brakes India Pvt. Ltd.	B.E / B.Tech.	
52		Jus Pay	B.E / B.Tech. & M.E./M..Tech.	
53		Technip India Pvt. Ltd, Chennai.	B.E / B.Tech.	
54		FL Smidth, Chennai.	B.E / B.Tech.	
55		Samsung R&D Institute India, Bangalore.	B.E / B.Tech.	
56		Avnet, Chennai.	B.E / B.Tech. & M.E./M..Tech.	
57		Torry Harris Business Solutions Ltd	B.E / B.Tech.	
58		Toshiba Machine Pvt. Ltd., Chennai.	B.E / B.Tech.	
59		Alcatel Lucent	B.E / B.Tech.	
60		HealthifyMe Wellness Products & Services Pvt. Ltd.	B.E / B.Tech. & M.E./M..Tech.	
61		AstraZeneca, Chennai.	B.E / B.Tech.	
62		Huawei Technology India Pvt. Ltd.	B.E / B.Tech.	
63		CNS Inc	B.E / B.Tech.	
64		Microchip India	B.E / B.Tech. & M.E./M..Tech.	
65		Hexagon Capability Center India Pvt. Ltd	B.E / B.Tech. & M.E./M..Tech.	
66		Valued Epistemics India Pvt. Ltd.	B.E / B.Tech.	
67		Jaze Network Pvt. Ltd.	B.E / B.Tech.	
68		Software AG Bangalore Technologies Pvt. Ltd	B.E / B.Tech.	

69		Ababil Healthcare Pvt Ltd	B.E / B.Tech.	
70		URJANET Energy Solutions	B.E / B.Tech. & M.E./M..Tech.	
71		Penna Cement Ltd	B.E / B.Tech.	
72		Unitech Transfer GmbH-German Centre for Automation and Robotics Germany	B.E / B.Tech. & M.E./M..Tech.	
73		Renault Nissan	B.E / B.Tech.	
74		Saint Gobain	B.E / B.Tech.	
75		HCL Technologies Ltd.	B.E / B.Tech.	
76		Bally Technologies	B.E / B.Tech. & M.E./M..Tech.	
77		The Hindu	B.E / B.Tech.	
78		CSS Corporation, Chennai.	M.E./ M.Tech.	
79		ZoomRx Healthcare Technology Solutions Pvt. Ltd.	B.E / B.Tech.	
80		TCS BPS	MBA	80%
81		TCS Ltd	MBA	
82		SPR Constructions	MBA	
83		Unlimited Innovations	MBA	
84		Colgate	MBA	
85		Kotak Mahindra Bank	MBA	
86		Axis Bank	MBA	
87		Systwo	MBA	
88		CTS	MBA	
89		RANE	MBA	
90		CGM CMA	MBA	
91		Zoho Corp	MBA	
92		Big Bazaar	MBA	
93		Sensiple	MBA	
94		ITC	MBA	
95		FSS	MBA	
96		Bajaj Corp	MBA	
97		Secova	MBA	
98		HCL Tech	MBA	
99		Deloitte	MBA	
100		SBA Info Sol	MBA	
101		Tube Investments	MBA	
102		Smartmegh	MBA	
103		Payoda Technologies	MBA	
104		Kotak Insurance	MBA	
105		Aditya Birla	MBA	
106		Kent RO	MBA	
107		Cerebrus Consultants	MBA	
108		ISS	MBA	
109		Indus Ind Bank	MBA	
Sl. No.	Year	Companies visited	Eligible Programmes	% of students

				placed
1	2016 - 2017	Dow Chemicals	B.E / B.Tech	82.5
2		Amazon.com	B.E / B.Tech / M.E / M.Tech	
3		Real Image Media Technology, Chennai.	B.E / B.Tech / M.E / M.Tech	
4		Coda Global, Chennai.	B.E / B.Tech / M.E / M.Tech	
5		Dell (Networking)	B.E / B.Tech	
6		Xome	B.E / B.Tech	
7		ThoughtWorks Technology	B.E / B.Tech / M.E / M.Tech	
8		TCS CTO	B.E	
9		Juspay	B.E / B.Tech / M.E / M.Tech	
10		Nationstar Mortgage	B.E / B.Tech / M.E / M.Tech	
11		Temenos	B.E / B.Tech	
12		Sirius	B.E / B.Tech / M.E / M.Tech	
13		Mu Sigma	B.E / B.Tech	
14		Zoho Corporation	B.E / B.Tech / M.E / M.Tech	
15		Zoom RX	B.E / B.Tech	
16		Fidelity	B.E / B.Tech	
17		Trimble Solutions	B.E / B.Tech / M.E / M.Tech	
18		Zifo R&D Solutions	B.E / B.Tech	
19		Fresh Desk	B.E / B.Tech	
20		Latent View Analytics	B.E / B.Tech	
21		GoFrugal	B.E / B.Tech / M.E / M.Tech	
22		Sahaj Software	B.E / B.Tech / M.E / M.Tech	
23		AstraZeneca	B.E / B.Tech	
24		Intellect Design	B.E / B.Tech	
25		Verizon	B.E / B.Tech	
26		Multicoreware	B.E / B.Tech	
27		Saint-Gobain - women	B.E / B.Tech	
28		CTS	B.E / B.Tech	
29		TCS Summer intern cum offer	B.E	
30		L&T Construction (ECC)	B.E / B.Tech	
31		Infosys	B.E / B.Tech / M.E / M.Tech	
32		Accenture	B.E / B.Tech	
33		Wipro	B.E / B.Tech	
34		Infotrellis, Chennai.	B.E / B.Tech / M.E / M.Tech	

35	Soliton	B.E
36	Capgemini	B.E / B.Tech
37	ELGi	B.E
38	L&T Infotech	B.E / B.Tech
39	Hyundai Motors India	B.E / M.E
40	Maveric Systems	B.E / B.Tech
41	TATA Communications	B.E / B.Tech / M.E / M.Tech
42	Amazon cloud support Engineer	B.E / B.Tech / M.E / M.Tech
43	Ashok Leyland	B.E / B.Tech
44	Johnson Contorls	B.E / B.Tech
45	Sanmar Groups	B.E / B.Tech
46	Fuji Xerox, Japan.	B.E / B.Tech / M.E / M.Tech
47	EY, Chennai.	B.E / B.Tech
48	Hexagon, Hyderabad.	B.E / B.Tech / M.E / M.Tech
49	Hasura, Chennai.	B.E / B.Tech / M.E / M.Tech
50	BA Continuum Ltd, Chennai.	B.E / B.Tech
51	Visual Bi, Chennai.	B.E / B.Tech / M.E / M.Tech
52	Mytrah Energy (India) Pvt. Ltd, Hyderabad.	B.E / B.Tech / M.E / M.Tech
53	Nokia, Chennai.	B.E / B.Tech
54	Renault Nissan, Chennai.	B.E / B.Tech / M.E / M.Tech
55	Technicolor, Chennai.	B.E / B.Tech / M.E / M.Tech
56	Aricent Tech (VLSI)	M.E
57	Steria, Chennai.	B.E / B.Tech
58	HCL, Noida.	B.E / B.Tech / M.E / M.Tech
59	Newgen, Chennai.	B.E / B.Tech / M.E / M.Tech
60	Photon, Chennai.	B.E / B.Tech / M.E / M.Tech
61	Zoho Corporation (Content Role)	B.E / B.Tech / M.E / M.Tech
62	MRF Ltd	B.E
63	SAP Labs India, Bangalore.	B.E / B.Tech / M.E / M.Tech
64	Rotork, Chennai.	B.E
65	Radial Omnichannel Technologies India Pvt Ltd	B.E / B.Tech
66	Blue Star, Chennai.	M.E
67	Global Analytics	B.E / B.Tech /

			M.E / M.Tech	
68		Visteon, Chennai.	B.E	
69		CSS Corp, Chennai.	M.E / M.Tech	
70		Samsung R&D, Bangalore.	B.E / B.Tech	
71		TAFE, Chennai.	B.E	
72		HCL (BME), Noida.	B.E	
73		National Payments Corporation.	M.E / M.Tech	
74		Saint-Gobain, Chennai.	B.E / B.Tech	
75		Lucid Software	B.E / B.Tech / M.E / M.Tech	
76		Huawei, Bangalore.	B.E / B.Tech / M.E / M.Tech	
77		CaratLane, Chennai.	B.E / B.Tech / M.E / M.Tech	
78		Pipecandy, Chennai.	B.E / B.Tech / M.E / M.Tech	
79		DBS Bank	B.E / B.Tech	
80		Royal Enfield, Chennai.	B.E / B.Tech	
81		SPIC, Chennai.	B.Tech	
82		Brakes India	B.E	
83		Philips Healthcare	B.E	
84		Thirumalai Chemicals	B.Tech	
85		Omics International	B.E	
86		iYantras (Airbots)	B.E / B.Tech / M.E / M.Tech	
87		EmbedUR Systems	B.E / B.Tech / M.E / M.Tech	
88		Scriplogix	B.E / B.Tech / M.E / M.Tech	
89		Business Octane	B.E / B.Tech	
90		TheMediTube, Chennai.	B.E / B.Tech	
91		SportsMechanics	B.E / B.Tech / M.E / M.Tech	
92		Manali Petrochemicals	B.Tech	
93		TPF Software	B.E / B.Tech / M.E / M.Tech	
94		Ajira Soft	B.E / B.Tech / M.E / M.Tech	
95		VWR Lab Products Pvt.Ltd.,Coimbatore	B.E / B.Tech	
96		HCL Technologies Ltd	B.E / B.Tech	
97		COSGrid Networks	B.E / B.Tech	
98		Toshiba Machine	B.E	
99		IDBI Federal Insurance	B.E / B.Tech / M.E / M.Tech	
100		Healthcare Technology innovation Centre(off-campus)	B.E	
101		CBRE South Asia Pvt. Ltd	B.E	

5.1.10 Does the institution have a student grievance redressal cell? If yes, list (if any) the grievances reported and redressed during the last four years.

Yes. Please refer to Section 2.5.7.

5.1.11 What are the institutional provisions for resolving issues pertaining to sexual harassment?

A qualified psychologist student counsellor, available in the campus interacts proactively with the students, identifies and mentors students with adjustment issues, psychological problems and even gender related issues. A team of faculty with a lady faculty as Chairperson is available, to deal with cases of sexual harassment within the campus. The institute has not faced any cases of sexual harassment till date.

5.1.12 Is there an anti-ragging committee? How many instances (if any) have been reported during the last four years and what action has been taken on these?

Anti ragging committee is functioning as directed by the Affiliating University.

5.1.13 Enumerate the welfare schemes made available to students by the institution.

Scholarships are one of the key areas providing for students' welfare. Students are offered scholarships in various categories such as Merit, Merit-cum-Means, Rural Scholarships, Walk-in Walk-out out scholarships etc.

Students availing rural scholarships are offered free education alongwith material support such as laptops and additional training and mentoring.

5.1.14 Does the institution have a registered Alumni Association? If 'yes', what are its activities and major contributions for institutional, academic and infrastructure development?

Institution has an Alumni Association with chapters in different parts of India, Europe, US & Asia. The institute is currently under process of registering the Association.

The alumni meet twice a year; once in campus on every first Saturday of January. The alumni contribute to research by sponsoring student projects, in placements by providing contacts and training to the current students and through scholarships. The alumni have provided Rs. 9.75 Lakh worth of

scholarships in 2016-17 and sponsored research labs contributing Rs. 11 Lakh towards lab facilities.

The alumni studying abroad also help in research by coordinating with faculty of Universities abroad.

5.2 Student Progression

5.2.1 Progressing to higher education or employment

Sl. No.	Student Progression	Progression as a percentage during			
		2012-13	2013-14	2014-15	2015-16
1	UG to PG	17.35	14.34	18.34	17.4
2	PG to Ph.D.	6.03	2.63	3.45	0.65
3	Employed through Campus Recruitment	60.58	67.05	67.63	65.23
4	Employed other than Campus recruitment	8.17	9.34	5.02	4.05

MBA

Sl. No.	Student Progression	Expressed as a percentage in the year			
		2012-13	2013-14	2014-15	2015-16
1	UG to PG	Not Applicable			
2	PG to Ph.D.				
3	Employed through Campus Recruitment	75	74	70	80
4	Employed other than Campus recruitment	20	20	25	-

5.2.2 Programme wise progression of students over a period of 4 years,

Department of Electrical and Electronics Engineering

Sl. No.	Year of Entry	No. of Students admitted in 1 st yr + those admitted thro' Lateral entry in 2 nd yr	Number of Students who have successfully completed			
			First Year	Second Year	Third Year	Fourth Year
1	2015-16	124+19	107			
2	2014-15	124+23	110	99		-
3	2013-14	120+22	113	102	113	-
4	2012-13	123+24	118	124	114	140
5	2011-12	124+20	113	117	119	135
6	2010-11	121+24	114	126	112	141
7	2009-10	116+16	116	112	104	131
8	2008-09	120+11	117	114	117	130

Department of Electronics and Communication

Sl. No.	Year of Entry	No. of Students admitted in 1 st yr + those admitted thro' Lateral entry in 2 nd yr	Number of Students who have successfully completed			
			First Year	Second Year	Third Year	Fourth Year
1	2015-16	124+17	102	-	-	-
2	2014-15	127+21+3	120	114	-	-
3	2013-14	120+24+1	115	113	104	-
4	2012-13	121+19+2	128	105	120	135
5	2011-12	125+21+1	105	106	118	139
6	2010-11	123+18+4	111	105	100	134
7	2009-10	115+15+3	108	104	95	120
8	2008-09	122+11+1	105	112	117	121

Department of Computer Science Engineering

Sl. No.	Year of Entry	No. of Students admitted in 1 st yr + those admitted thro' Lateral entry in 2 nd yr	Number of Students who have successfully completed			
			First Year	Second Year	Third Year	Fourth Year
1	2015-16	128	108			
2	2014-15	124+19	110	101	-	-
3	2013-14	120+22	113	102	100	-
4	2012-13	123+24	118	124	114	124
5	2011-12	124+20	113	117	119	135
6	2010-11	121+24	114	126	112	141
7	2009-10	116+16	117	112	104	131
8	2008-09	120+11	117	114	117	130

Department of Information Technology

Sl. No.	Year of Entry	No. of Students admitted in 1 st yr + those admitted thro' Lateral entry in 2 nd yr	Number of Students who have successfully completed			
			First Year	Second Year	Third Year	Fourth Year
1	2015-16	139	102			
2	2014-15	140	101	105		
3	2013-14	134	110	105	110	
4	2012-13	143	116	106	117	127
5	2011-12	148	115	87	106	139
6	2010-11	149	104	97	110	130
7	2009-10	132	101	108	103	114
8	2008-09	131	100	91	102	117

Department of Chemical Engineering

Sl. No.	Year of Entry	No. of Students admitted in 1 st yr + those admitted thro' Lateral entry in 2 nd yr	Number of Students who have successfully completed			
			First Year	Second Year	Third Year	Fourth Year
1	2015-16	61+8	53	-	-	-
2	2014-15	64+9	62	63	-	-
3	2013-14	63+7	54	56	55	-
4	2012-13	61+6	57	61	62	65
5	2011-12	61+6	52+6	61	64	64
6	2010-11	31+4+1	22+4+1	30	35	36
7	2009-10	26+3	23+3	19	25	27
8	2008-09	29+2	25+2	29	29	28

Department of Biomedical Engineering

Sl. No.	Year of Entry	No. of Students admitted in 1 st yr + those admitted thro' Lateral entry in 2 nd yr	Number of Students who have successfully completed			
			First Year	Second Year	Third Year	Fourth Year
1	2015-16	62+3	54	-	-	-
2	2014-15	60+8	34	46	-	-
3	2013-14	60+4	56	48	61	-
4	2012-13	58+9	52	49	56	57
5	2011-12	57+9	47	36	61	52
6	2010-11	62+5	39	47	54	65
7	2009-10	57+5	46	39	51	60
8	2008-09	57+3	51	34	50	57

Department of Mechanical Engineering

Sl. No.	Year of Entry	No. of Students admitted in 1 st yr + those admitted thro' Lateral entry in 2 nd yr	Number of Students who have successfully completed			
			First Year	Second Year	Third Year	Fourth Year
1	2015-16	126 + 23 = 149	126	-	-	-
2	2014-15	122 + 23 = 145	116	-	-	-
3	2013-14	120 + 23 = 143	113	126	-	-
4	2012-13	126 + 23 = 149	119	126	133	-
5	2011-12	125 + 20 = 145	106	123	132	142
6	2010-11	63 + 10 = 73	50	56	62	70
7	2009-10	60 + 7 = 67	46	54	58	66
8	2008-09	60 + 5 = 65	50	51	58	62

Department of Civil Engineering

Sl. No.	Year of Entry	No. of Students admitted in 1 st yr + those admitted thro' Lateral entry in 2 nd yr	Number of Students who have successfully completed			
			First Year	Second Year	Third Year	Fourth Year
1	2015-16	63 + 06	55	-	-	-
2	2014-15	63 + 09	54	57	-	-
3	2013-14	63 + 10	57	55	45	-
4	2012-13	63 + 11	52	55	57	69
5	2011-12	62 + 08	53	62	62	69

MBA

Sl. No.	Year of entry	No. of Students admitted in 1 st yr	Number of Students who have successfully completed		
			1 st Yr	2 nd Yr.	
1	2015-16	113	96	-	Not Applicable
2	2014-15	111	95	109	
3	2013-14	119	52	113	
4	2012-13	108	80	98	

5.2.3 How does the institution facilitate student progression to higher level of education and / or towards employment?

The Career Development Cell helps students towards employment by guiding them based on their aptitude, attitude and interest. Students are also given counseling by faculty members on higher education, and facilities are made available to them in terms of expert talks and coaching classes to take the best decision toward their future objectives.

5.2.4 Support provided by the Institution for slow learners

Special classes are conducted for slow learners during the first and second semesters, as mentioned earlier. During third semester, special classes are conducted for Lateral entry students, specifically in Mathematics and English communication skills.

5.3 Student participation and activities

5.3.1 List the range of sports, games, cultural and other extracurricular activities available to students. Provide details of participation and program calendar. &

5.3.2 Furnish the details of major student achievements in cocurricular, extracurricular and cultural activities at different levels: University / State / Zonal / National / International, etc. for the previous four years.

Student participation and Activities**A. Sports:**

Excellent facilities are available in the college for sports as listed below:

1. Cricket ground of International standard with pavilion.
2. Indoor sports complex with facilities for
 - a. Basketball
 - b. Squash courts – 2 Nos.
 - c. A Hall for indoor games such as chess, caroms & Table tennis
 - d. Badminton court – 2Nos.
3. Tennis courts with synthetic flooring - 2 Nos.
4. A 400m standard track
5. Provision for net practice
6. Basketball courts – 2 Nos.
7. Volleyball courts – 2 Nos.
8. Separate indoor fitness centres for both boys and girls
9. Football court

The Table below gives the list of Individual and Team event achievers of the college in various sports events held during the year 2016-17:

Academic Year 2016-17	Name of The Event	Position	Type of Event
S.ARUN (I year Mech)	He represented the country in the 17 th Asian Roller Skating Championship held at China and he secured the bronze medal. He has represented the country in the World Roller Skating Championship held at Italy.	III 14 th Rank	International
D.ANANTH (I Year MECH)	He has represented the country in the ITTF world Junior circuit Chinese Taipei International Table tennis tournament held at China. He has secured the gold medal in the ITTF Indian open junior and cadet international Table tennis tournament held at Indore. He has represented the country in the Asian junior and cadet	- I 7 th Rank -	International

	<p>open Table tennis tournament held at Bangkok.</p> <p>He has represented the country in the world junior Table Tennis championship held at Cape town, south Africa.</p>		
B.V.RAMYA TULASI (IV Yr CIVIL)	<p>She has participated in the mixed double event in the OUE Singapore international Badminton series held at Singapore.</p> <p>She has represented the Chennai smashers' team along with P.V.Sindhu in the Premier Badminton league tournament and the team had clinched the title.</p> <p>She has participated the Syed Modi International Grand prix gold Badminton tournament at Lucknow</p>	- I -	International
N.HEMAPRIYA (IV Yr ECE)	She has represented the Anna University chess team in the World inter University Chess tournament held at Kualaumpur and the team secured the silver medal.	II	International
N.Mayuri (II yr Chem)	She has participated in the senior national squash championship held at Mumbai.		National
L.Bharath (II yr ECE)	He has represented Tamilnadu state in the Under-19 National Chess championship held at Rajamundry.		National
U.Vishal (IV yr Civil)	He has represented the Tamilnadu state under-23 cricket team in the C.K.Nayudu trophy against Gujarth, Baroda and Saurashtra Cricket teams		National
M.Sandya (II yr ECE)	<p>She has participated in the First BCF international FIDE rated chess tournament held at Delhi and she received the best women player award.</p> <p>She has represented the</p>		National

	Tamilnadu chess team in the 15 th National women Chess championship held at Bopal.		
G.Chandramouleswar (II Yr Civil)	He has participated in the All India senior ranking Badminton tournament held at Gujarat and he lost the match in quarter final.		National
Academic Year 2016-17	Team Achievements	Position	Level
SPORTS FEST 2017	Organized by VNRVJIET, Hyderabad. Tennis, Table Tennis, Basketball & Chess –Women Chess, Table Tennis - Men	I	National
VIE 2017	Organized by Jain University, Bangalore Tennis (M)	I	National
REVELS CUP 2017	Organized by MIT, Manipal. Table Tennis (M), Tennis (M) & Chess (M)	I	National
GECFEST 2017	Organized by Gudivallru Engineering college, Vijayawada. Table Tennis (M&W), Tennis (M&W) & Basketball (M &W).	I	National
KL TROPHY	Organized by KL University. Badminton (W) , Chess (M&W)& Table Tennis(M &W).	I	National
RIVIERA	Organized by VIT University Vellore. Squash (W)	I	National
COLLOSEUM 2017	Organized by SASTRA University Chess (M&W), Tennis (M&W) & Badminton (M)	I	State
PSG TROPHY	Organized by PSG Arts & Science college Table Tennis (M)	I	State
AC MUTTAIAH ROLLING TROPHY	organized by SVCE, Sriperumpudur Cricket (M)	I	State
KAMARAJAR TROPHY	Organized by KAMRAJAR Engg College, Virudunagar Badminton (M &W)	I	State
SA Trophy	Organized by SA ENGG College, chennai Tennis(M), Table Tennis(M)	I	State

B. Extracurricular activities

Students are encouraged to participate in as many events as per their interest, so that they learn to work in teams, improve interpersonal communications and develop a bonding for the institution. The following clubs, which are active:

- a. English Literary club
- b. Oratory club
- c. Quiz club
- d. Fine Arts club
- e. Tamil Mandram
- f. Theatre Club
- g. Film Club
- h. Music Club
- i. Dance Club

The following list gives the names of achievers during the events held in 2015-16.

Music Club**120 db accomplishments (Light Music Band)**

- 1) First place at SRM Medical College
- 2) Second place at Stanley Medical College
- 3) Third place at Madras Medical College
- 4) Finalists at Festember 2015

The Music Club has a tie up with the Ashwin Maharaj Foundation in their Music Therapy project. The SMC sends a different band every month to perform for cancer patients at the Adyar Cancer Institute.

Individual accomplishments:

- 1) **Bishwanth**
Third place at NIFT Bangalore
First place at NMIT Bangalore
Represented India at the Waken Metal Festival with 'Vidyut'
Headlined at 'fete de la music'
- 2) **Shiv Rekhi and Akshay T**
Performed at various venues with their band 'Spine Shatter'
- 3) **Samuel Abhishek**
Performed at various venues with his band 'That Band'
- 4) **Anandh SRB**
Scored music for various short films
- 5) **Notable flute performances by Visveshawar**
 - Performed at the prestigious Ramanathapuram palace as a part of navaratri festival in October 2015.

- Live broadcast of flute recital in All India Radio, Madras 'A' Channel: June 2016
- Performed alongside Shri. Sriram Parasuram in the Thureeyam festival, Payyanur, Kerala, June 2016

Dance Club N2K:

- College dance team won many competitions held in various parts of the state and established themselves as professional dance team of Tamilnadu.
- First place at Nakshatra, Vels Institutions
- Second Place at VIT Chennai
- Second Place at Ethiraj College cultural
- Third Place at WCC
- Third Place at Loyola

The entire crew was involved in a song in a film "**Yaanum Theeyavan**"

Lights Out Please (The Theatrical Club):

In association with Crea Shakti, they've staged 6 public shows.

They have also been placed first in IIT Saarang Theatricals and in Dramalog conducted by Goethe Institute.

NIT Festember - 2nd Place, Public Shows – Rumours Ulle Veliye

Quiz Club:

Brought many a laurel to this institution and have made SSN a well known name in the quizzing circle. They won the 1st place at the MOP JIF Quiz, 1st place in Techofes India Quiz and IFMR Biz Quiz.

English Literary Club:

- ✓ ELC members took part in the NIT Trichy cultural, Festember which was held in September and won several prizes.
- ✓ They have been the winners of various literary events like debate, shipwreck, JAM and creative writing conducted by prestigious institutions like CEG and IIT.

SSN Film Club:

Film Club enthusiastically engages in covering student activities all through the year. There were 15 short films directed in a span of one year out of which a few were massive hits. Whatsapp Kadhal, directed by Pradheep, got the Best Short Film Award in IIT Saarang, NIT Festember and became sensational on YouTube with over 4 lakh views.

SSN MUN (Model United Nations)

- MOP MUN Delegates from SSN won laurels and swept the awards at the following MUNs 2015.

Young Leaders Conference 2015, SRM MUN 2015, VIT
Chennai MUN 2015, St. Joseph's MUN

- Vishal Vasanth, was invited to be part of the Executive Board at London International MUN
- SSN bagged the best delegation awards at HYLK 2015 and SRM MUN 2015
- Mr. Jerry Thomas, IV B.E. (ECE) has been selected as one of the top three winners (from 566 essays in a competition from all over the country) in Climate Change organised by the European Union and The Hindu. He will be sent on a study tour to Europe in June next year.

C. Societal activities

We have an NSS cell and a YRC cell, which, under the guidance of two faculty members as coordinators, are fully involved in social activities; Our NSS team has won the best NSS team, best NSS volunteer and best NSS coordinator awards from the Anna University.

In addition, the cell organized several rallies creating awareness for wearing helmet, need to vote, need for women's education, awareness rallies to bring to the fore evils of alcohol, evils of use of tobacco etc. About 3000 of our students painted their palms with the logo against the use of tobacco, on a day and this has earned an entry in the Guinness Book of world records.

The activities of the students in the above units during 2016-17 are given below:

NSS activities -2016 -2017

Sl. No.	Name of the Event	Date	Venue	No. of Volunteers participated
1	Lateral Entry Guidance Programme	27 th July 2016	Lecture Hall	40
2	Ethu Sudhandiram	12 th Aug. 2016	Seminar Hall	200
3	Maatram Aaguhga	24 th Aug. 2016	Seminar Hall	100
4	NSS Orientation	7 th Sep.2016	Mini Audi	100
5	Blood donation Camp	13 th Sep. 2016	ECE Block, SSNCE	250
6	NSS Day Celebration	28 th Sep. 2016	Mini Audi	250
7	Rural Students Meet Up	1 st Oct. 2016	Lecture Hall	40
8	Daan Ustaav	2 nd Oct. 2016	Basant Nagar	170
9	Organic Farming	3 rd Oct. 2016	SSN Campus	30

10	Disaster Management Training	7 th Nov. 2016	Thiruporur-Community Hall	20
11	Turtle Walk – Clean UP	7 th & 8 th Jan 2017	Patinapakkam	65
12	National Youth Conference	12 th to 15 th Jan 2017	Rohtak, Haryana	02
13	Youth Day Celebrations	19 th Jan 2017	Manapakkam, Chennai	33
14	Lake Walk	22 nd Jan. 2017	Chennai	40
15	National Voters Day	25 th Jan 2017	Seminar Hall	50
16	Campus Cleanliness Drive	13 th Feb to 28 th Feb. 2017	SSNCE	15
17	Tree Plantation	21 st & 22 nd Feb. 2017	SSNCE Campus	20
18	Turtle Walk	25 th Feb. 2017	Inajmbakkam to Besant Nagar	20
19	Blood donation Camp	28 th Feb. 2017	Mini Audi	250
20	Volunteers Workshop	2 nd & 3 rd March 2017	Anna Univeristy	3
21	Blind Home visit	25 th March 2017	Madavaram, Chennai	35
22	March Past	31 st March 2017	SSNCE	40
23	NSS Conclave	8 th April 2017	IIT Madras	5

YRC Activities for the year 2016-17:

Sl. No.	Name of the Event	Date	Venue	No. of Volunteers participated
1	Campus cleaning	04.04.2017	SSN CE	50
2	Orphanage visit	04.03.2017	Annai Fathima illam, Karapakkam	40
3	Blood donation	28.02.2017	SSN CE	25
4	Hospital cleaning	19.02.2017	Kilpauk Govt. Hospital	40
5	Beach Cleaning	18.02.2017	Marina beach, Chennai	40
6	Stem cell registration	11 February 2017	SSN CE	30

	campaign			
7	Village camp	26-28 January 2017	Siruthavur, Kancheepuram Dt.	70
8	Orphanage visit	02.10.2016	Arul illam, Kolapakkam	40
9	Campus cleaning camp	28-09-2016	SSN CE	40
10	Blood donation	15.09.2016	SSN CE	25
11	Eye Camp	06.09.2016	SSN CE	20
12	Study camp on 'Child and Drug abuse	05.08.2016	SSN CE	30

D. Other Activities:

To infuse the entrepreneurial spirit among students, a week long series of events are conducted by Entrepreneurship Development Cell, every year, where the students exhibit their marketing skills by selling a product specified by the team, through advertisement, slogans, organizing events etc. on a specified day. The best seller gets a prize. Other events include B-Plan contests and SSN Youth Conference (SYCON)

A model United Nations meeting (MUN) is held with participation from several colleges in and around Tamil Nadu. This event has won praise and appreciation from media and public.

An annual event that students eagerly look for, is INSTINCTS, meant to make a forum for other colleges to present their histrionic talents, SSN being the host. There are as many as 30,000 footfalls during this three day event.

5.3.3 How does the college seek and use data and feedback from its graduates and employers, to improve the performance and quality of the institutional provisions?

Feedback is taken from the company executives who come to recruit the students on the performance of the past students. Placement cell works closely with industry and participates in industry interaction programs to gather this information.

The institute regularly interacts with the Alumni to benchmark best practices and implement them wherever necessary.

5.3.4 How does the college involve and encourage students to publish materials like catalogues, wall magazines, college magazine, and

other material? List the publications/ materials brought out by the students during the previous four academic sessions.

Students of all departments publish a quarterly magazine detailing the activities of the department and other news items relevant to their areas.

The following are the magazines published by the Institute and the departments:

1. Vibrations – Institute
2. Redeem – EEE
3. Impulse – ECE
4. Smriti – CSE
5. IdentITy– IT
6. Synergy – BME
7. Spark – Chemical
8. Aspire – Mechanical
9. CivicZone - Civil

The Institution magazine “Vibrations” is published quarterly in printed version, and the department magazines are uploaded in the college intranet.

5.3.5 Does the college have a Student Council or any similar body? Give details on its selection, constitution, activities and funding.

The institution does not have a student council, but there are societies / clubs the heads of which are part of the council which oversee all the cultural activities at SSN. Similarly, the heads of the technical clubs are responsible for all technical activities at SSN.

5.3.6 Give details of various academic and administrative bodies that have student representatives on them.

Every class has a class committee which consists of the students and faculty members. Class committee sets the rules and the regulations for the class behavior. It serves as the voice of the students in front of faculty and has a say in academic matters such as conduct of tests and so on. The class committee meets twice a semester.

The Institution also provides avenues for the development of technical skills, updating knowledge, personality development and service to the society through various technical associations / societies.

- Association of Electrical and Electronics Engineers (AEEE)
- Association of Electronics and Communication Engineers (AECE)
- Association of Computer Engineers (ACE)
- Association of Information Technologists (AIT)
- Association of Chemical Engineers (ACE)

- Association of Biomedical Engineers (**ABE**)
- Association of Mechanical Engineers (**AME**)
- The Student Branch of the Institute of Electrical and Electronics Engineers Inc. (**IEEE**)
- Association of civil Engineers (**ACE-CIVIL**)
- Indian Society for Technical Education (**ISTE**)
- IETE Student Forum
- Student Chapter of Association of Computing Machinery (**ACM**)
- Computer Society of India (**CSI**)
- Entrepreneurship Development Cell (**EDC**)
- National Service Scheme (**NSS**)
- Youth Red Cross (**YRC**)
- Tamil Mandram
- English Literary Club (**ELC**)
- Fine Arts Club
- Music Club
- Dance Club
- Drama Club
- Photography Club
- Management Association
- Rotaract Students' Chapter
- Electrical Research Fraternity (**ERF**)

5.3.7 How does the institution network and collaborate with the Alumni and former faculty of the Institution?

The institution has a very active alumni cell with a full-fledged Alumni Officer. The institute has Alumni chapters in US, Chennai, Europe, Bangalore, Hyderabad and other locations. The office bearers of the chapters meet twice a year. On every first Saturday of January, the alumni meet called 'Tribute' is organized in Chennai at SSN campus, and on every first Saturday of February, the alumni meet is organized in US.

CRITERION VI: GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 Institutional Vision and Leadership

6.1.1 The Vision and Mission statements of the Institution are:

Vision Statement

To be a world-class institution for technical education and scientific research for the public good.

Mission Statement

SSN will strive continuously to

- *Make a positive difference to the society through education*
- *Empower students from all socio-economic strata to level the academic and professional playing field*
- *Be a centre of excellence in education in emerging technologies in tandem with the industry and industrial trends*
- *Build world class research facilities on par with the finest in the world and broaden students' horizons beyond classroom education*
- *Nurture talents and entrepreneurship and enable all-round personality development in students*

The Trust:

The SSN Trust was founded in 1994 by Dr. Shiv Nadar, Chairman, HCL Technologies and (Late) Justice Pratap Singh, a legal luminary and judge of the Madras High Court. The Trust has established SSN College of Engineering in 1996 and the SSN School of Management in 1998. The SSN Institutions are managed by a Board of Management, comprising:

- | | |
|---|------------------------------|
| 1. Dr. Shiv Nadar, Founder, SSN Trust | Permanent
Special Invitee |
| 2. Mr. R. Srinivasan, Director and CEO,
Redington Ltd., Global Management and
Business Leader | Chairman |
| 3. Ms. Roshini Nadar Malhotra,
Trustee, SSN Trust | Member |
| 4. Mr. T.S. Krishnamurthy,
Former Chief Election Commissioner | Member |
| 5. Dr. M.S. Ananth, Former Director, IIT-Madras | Member |
| 6. Mr. Subbiah Nagarajan, Senior Advisor,
Daimler India Commercial Vehicle | Member |
| 7. Mr. Sriram Rajagopal,
Vice President, Human Resources, Cognizant | Member |
| 8. Mr. P. Sivaprasad,
Advocate, Madras High Court | Member |
| 9. Ms. Kala Vijayakumar,
President, SSN Institutions | Member Secretary |

SSNCE has the legacy of having Dr. Shiv Nadar, a beacon in IT industry, and an embodiment of Philanthropy, guiding the college. The Board of Management meets at least twice a year to take stock of the current situation and progress made and makes policy decisions to improve the functioning of the college to take it forward.

To monitor and advise college on academic matters, the college has a Governing Council comprising educationists, meeting once a semester. The composition of the Governing Council is as follows:

- | | | |
|----|--|------------------|
| 1. | Mr. Sivaprasad,
Advocate, Madras High Court | Chairman |
| 2. | Ms. Kala Vijayakumar,
President, SSN Institutions | Member |
| 3. | Mr. K. Ananthakrishnan,
Chief Technology Officer,
Tata Consultancy Services Ltd. | Member |
| 4. | Dr. P. Swaminathan,
(Formerly) Scientist, IGCAR | Member |
| 5. | Dr. V. Sankaranarayanan,
Director (University Projects)
B.S. Abdur Rahman University | Member |
| 6. | Nominee of Anna University | Member |
| 7. | Nominee of Commissioner of
Technical Education,
Directorate of Technical Education, TN | Member |
| 8. | Nominee of AICTE
SRO, AICTE | Member |
| 9. | Dr. S. Salivahanan, Principal
SSN College of Engineering | Member Secretary |

6.1.2 What is the role of the top Management, Principal and Faculty in design and implementation of its quality policy and plans?

The top management and the Principal ensure that the QMS committee carries out its objectives in an effective way. The QMS committee reports to the Principal of the college, and he and the top management review the activities of the QMS committee every quarter.

6.1.3 What is the involvement of the leadership in ensuring:

- The policy statements and action plans for fulfillment of the stated mission
- Formulation of action plans for all operations and incorporation of the same into the institutional strategic plan
- Interaction with stakeholders
- Proper support for policy and planning through need analysis, research inputs and consultations with the stakeholders
- Reinforcing the culture of excellence
- Champion organizational change

The Principal and the HoDs concerned take decisions in all academic matters. The President conducts periodic discussions with the faculty and students and offers them suggestions. She also discusses with the Principal, Chairman of the Board of Management on important matters related to the college functioning, and decision is taken by her through building consensus. Implementation is stressed by the leadership of the institution. Most rules and regulations are circulated among staff, and decision is taken only after a thorough discussion with the stakeholders. The final decision taken is circulated among all stakeholders for adoption.

The discussions normally emanate from the faculty, in the faculty meeting with the HOD, then in the HoDs meeting with the Principal, and then with Principal and HoDs meeting with the President. Most of the information travel from bottom to top for approval by the Management, be it organising conferences, permitting a faculty to travel overseas for presenting a paper, etc. If it is negated, reasons are given for negation. If there is a common rule governing all concerned, it comes from top to bottom, that too after initiating a talk with the faculty or HoDs as it might concern.

6.1.4 What are the procedures adopted by the institution to monitor and evaluate policies and plans of the institution for effective implementation and improvement from time to time?

Please refer to Section 6.1.3.

6.1.5 Give details of the academic leadership provided to the faculty by the top management?

Dr. Shiv Nadar, CEO, Shiv Nadar Foundation, Mr. R. Srinivasan, Chairman, Board of Management of SSNCE are doyens of Management. Atleast one member of the Governing Council is in the Management Cadre of an industry. Their wise counsel is always available for any major decisions.

6.1.6 How does the college groom leadership at various levels?

The college has identified the second rung of leadership, and these leaders are given opportunities by the management to develop their skills and competencies in leadership and groom their team. These leaders as a cohort attend leadership conclave of the parent body and undergo training and are exposed to talks by motivational leaders as well as interact with other leaders of the organization.

6.1.7 How does the college delegate authority and provide operational autonomy to the departments / units of the institution and work towards decentralized governance system?

The department heads have both academic and financial autonomy. HoDs and Principal are given imprest amount by the management so that they can use it for any expenditure in their department/institute and is replenished once a month. As far as academic aspects are concerned, the HoDs are permitted to take routine decisions in accordance with the situations in exigencies and get it ratified by the Principal later.

6.1.8 Does the college promote a culture of participative management? If 'yes', indicate the levels of participative management.

Major decisions are usually taken after brainstorming and by consensus. Once a decision is taken, the implementation is done by a succession of officers / faculty.

6.2 Strategy Development and Deployment**6.2.1 Does the Institution have a formally stated quality policy? How is it developed, driven, deployed and reviewed?**

Quality Management System team of SSN IQAC consisting of faculty representatives is the prime body that develops, drives and deploys the quality policy. This is reviewed by the Top Leadership and Principal. The institute is ISO 9001:2015 certified by TUV Nord, and it audits the quality annually.

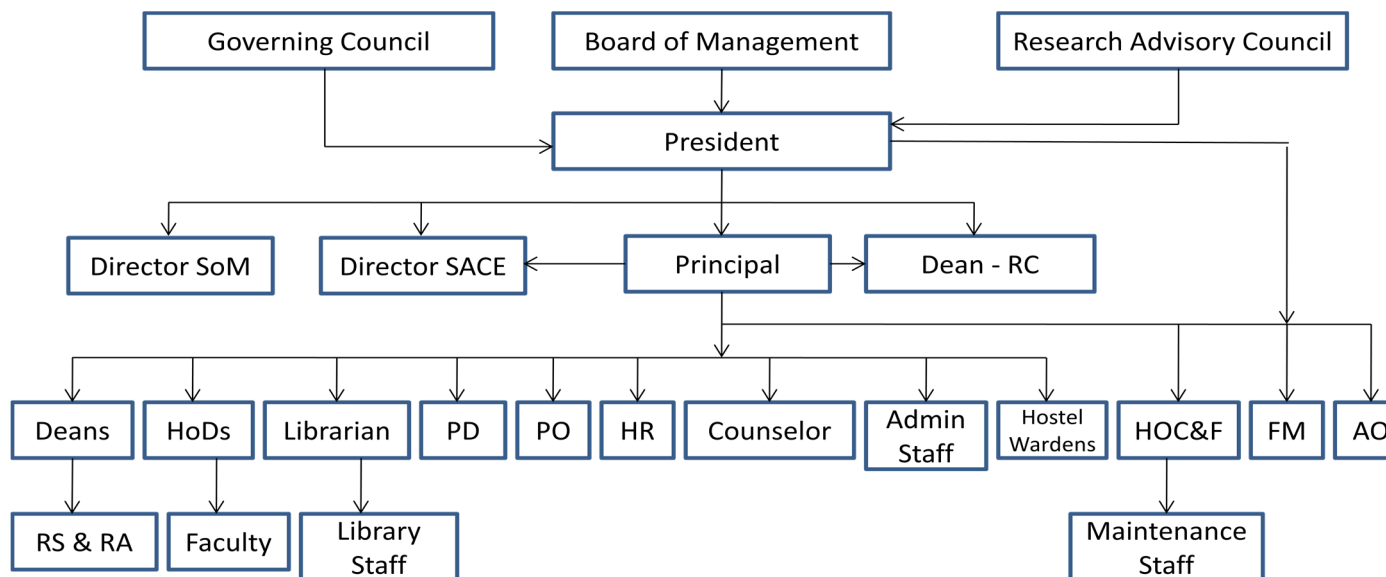
6.2.2 Does the Institute have a perspective plan for development? If so, give the aspects considered for inclusion in the plan.

Projections of the institute for 5 years are presented to the management for consideration, and it either approves or suggests modifications of the proposals. The institute has applied for a deemed University status to the UGC, and the UGC is yet to come for inspection.

6.2.3 Internal organization structure

The organizational structure of the college is given below:

ORGANISATIONAL STRUCTURE



LEGENDS

HoD – Head of Department

PD –Director of Physical Education

PO – Placement Officer

HOC & F – Head of Construction & Facilities

AO – Alumni Officer

FM – Finance Manager

SACE – School of Advanced Career Education

6.2.4 Give a broad description of the quality improvement strategies of the institution for each of the following Teaching & Learning, Research & Development, Community engagement, Human resource management and Industry interaction

Of the five, Teaching Learning, Research and HR management are taken care of by QMS of ISO of the college.

Teaching must culminate with good pass percentage, good placements, creation of start-ups and increased number of students opting for higher studies.

R & D must result in earning projects and patents. HR management must ensure quality and motivate teachers.

6.2.5 How does the Head of the institution ensure that adequate information (from feedback and personal contacts etc.) is available for the top management and the stakeholders, to review the activities of the institution?

All the departments share a monthly report covering all the activities of their departments with the Head of the Institutions which is then shared with the leadership. Quarterly reviews happen for all departments where they present their achievements and shortcomings to the Head of the Institution and the leadership.

6.2.6 How does the management encourage and support involvement of the staff in improving the effectiveness and efficiency of the institutional processes?

The President, the management representative, interacts with the faculty of each department in turns and gets to know the activities and their suggestions towards improvement of the processes. Joint brainstorming sessions are held once a month with all the Heads of the department.

6.2.7 Enumerate the resolutions made by the Management Council in the last year and the status of implementation of such resolutions.

The following additional courses / increase in intake was approved by the Board of Management in the meeting held on 29.01.2015.

Increase in intake:

1. Increase in intake from 120 to 180 in ECE
2. Increase in intake from 120 to 180 in CSE

New Programs:

1. M.E. in Biometrics and Cyber Security with an intake of 18
2. M.E. in Power Systems Engineering with an intake of 18

Applications have been submitted to AICTE and Anna University for approval to start these programs from the academic year 2016 – 17.

The Board of Management in its meeting held on 30.10.2015 approved to establish SSN Innovation Centre and sanctioned an amount of Rs.14 Lakh for the same.

The SSN Innovation and Incubation Centres are functioning with effect from September 03, 2016.

Increase in intake from 120 to 180 in ECE and in CSE is approved by AICTE and Anna University from the academic year 2017-18.

6.2.8 Does the affiliating university make a provision for according the status of autonomy to an affiliated institution? If 'yes', what are the efforts made by the institution in obtaining autonomy?

Anna University, to which the institute is affiliated, has not given autonomy to any of the affiliating colleges till 2014. Post that it has informed that the institutes interested in getting autonomous status can apply for the same and SSN College has submitted its application to Anna University for obtaining autonomy. The Inspection committee from Anna University inspected our college on 18.07.2016 in order to forward the application to UGC.

6.2.9 How does the Institution ensure that grievances / complaints are promptly attended to and resolved effectively? Is there a mechanism to analyse the nature of grievances for promoting better stakeholder relationship?

Grievances are striven to be resolved in the Class Committee meetings for the students. In addition, there is a Grievance Redressal Committee for students. The faculty can express his / her grievances to the HoD and then to the Principal. If it is not resolved he / she can refer to a committee comprising the Principal and other HoDs.

6.2.10 During the last four years, had there been any instances of court cases filed by and against the institute? Provide details on the issues and decisions of the courts on these?

No.

6.2.11 Does the Institution have a mechanism for analyzing student feedback on institutional performance? If 'yes', what was the outcome and response of the institution to such an effort?

Yes.

The parent body, viz. Shiv Nadar Foundation commissions a perception survey from a reputed market research team which interacts with a wide cross section of students cutting across branches, years and genders and obtains feedback. This feedback is communicated to top leadership for requisite action.

6.3 Faculty Empowerment Strategies

6.3.1 What are the efforts made by the institution to enhance the professional development of its teaching and non teaching staff?

At the time of starting the college, many faculty members were raw graduates, and the Management deputed faculty to do their Masters programme either through part time or if not feasible, through full time. At a certain stage, everyone was an M.E./M.Tech. Subsequently the faculty members were deputed for doing Ph.D. and now over 75% of the faculty members are with Ph.D. More than 149 faculty became research supervisors and they are guiding the faculty from SSN and other institutions who are pursuing Ph.D.

Non-teaching staff are encouraged to acquire additional skills and qualifications.

6.3.2 What are the strategies adopted by the institution for faculty empowerment through training, retraining and motivating the employees for the roles and responsibility they perform?

Faculty are encouraged to organize and attend national and international conferences. The SSN Trust provides funds as seed money to the faculty for their research activities. Study and recreational tours are organized for the faculty periodically.

6.3.3 Provide details on the performance appraisal system of the staff to evaluate and ensure that information on multiple activities is appropriately captured and considered for better appraisal.

The Institution has arrived at a faculty appraisal methodology over a period of time. It comprises, a self assessment based on the work load, qualifications, pass percentage of the classes the incumbent has taught, research publications etc. Another section of assessment is done by the HoD, mostly relying on the faculty's regularity, returning the test sheets in time, his research activities, his attitude to work as a team etc. and a third component by the Principal, counting mostly on his involvement in the development of the Institute. Obviously different weightages are given to each aspect.

The form was discussed with the teaching faculty over many sittings, and finality was reached. The marks obtained, together with the credit given by students through their feedback is considered during career advancement evaluation. Any negative indication is brought to the notice of the faculty, by the Principal, allowing him to mend himself. This is never used as a tool for penalizing the faculty, unless it is of serious nature, affecting the regulation of the institute.

6.3.4 What is the outcome of the review of the performance appraisal reports by the management and the major decisions taken? How are they communicated to the appropriate stakeholders?

Please refer to Section 6.3.3.

6.3.5 What are the welfare schemes available for teaching and non teaching staff? What percentage of staff have availed the benefit of such schemes in the last four years?

Teaching Staff:

The following incentives help in improving the working ambience and academic acumen of the faculty

- Faculty Performance Incentive
- Subsidy on housing loan interest
- Laptops at subsidized cost
- Incentive for publication of papers
- Incentive for earning external funded projects
- Incentive for guiding research
- Incentive for organizing a National / International conference
- Seed money for a prospective project, so that on fructification can be submitted to an external funding agency for funding
- Incentive for a worthy innovative idea
- Incentive for obtaining a patent
- Travel Grant
- Group Medical Insurance
- Free Transport

Non-Teaching Staff:

- Education, support – sum of Rs. 10,000 per child per year (Maximum two children)
- Gift for marriage and new born baby
- Diwali Bonus – Rs. 7,000 every year
- Twenty one days Earned leave for every year

- Fee concession for the wards of staff members who secured admission in SSN institutions
- Group Medical Insurance
- Monthly Food allowance
- Part time B.E./M.E.
- Free Transport

All the Non-teaching staff are availing the above listed benefits.

6.3.6 What are the measures taken by the Institution for attracting and retaining eminent faculty?

The benefits listed above, with good academic ambience and freedom attract and retain eminent faculty to the institution.

6.4 Financial Management and Resource Mobilisation

6.4.1 What is the institutional mechanism to monitor effective and efficient use of available financial resources?

Institution and its parent body employ a finance and accounting team through which all the expenses and use of financial resources are monitored by the leadership. As a second level of check the finance team of the parent body, viz. Shiv Nadar Foundation further monitors all transactions.

6.4.2 What are the institutional mechanisms for internal and external audit? When was the last audit done and what are the major audit objections? Provide the details on compliance.

The institution has adequate mechanism for auditing by both internal and external auditors. The parent body of the institute publishes the audited financial account through an annual report which is in public domain. The last annual report was released in June 2016.

6.4.3 What are the major sources of institutional receipts/funding and how is the deficit managed? Provide audited income and expenditure statement of academic and administrative activities of the previous four years and the reserve fund/corpus available with Institutions, if any.

The Trust has provided initial funding during the formative years i.e. 1996-97 for the physical assets such as land, building, roads, equipment for the various departments, furniture, water supply and sanitation, power supply, computers and networking etc. Over a period of time, as and when programmes were added, the additional infrastructure necessary was also funded by the Trust. Loans have also been taken from the HCL Technologies, when necessary.

As of now the only income to the college is by way of fees collected from the students. The major expenditure is for the salary and maintenance of the infrastructure. The college is not charging any capitation fee and hence, the budget will always be deficit.

The audited income and expenditure statements for the four years 2012-13 to 2015-16 are given below:

SSN Trust
Balance Sheet as at March 31, 2016

	Schedule	As at March 31, 2016 (INR)	As at March 31, 2015 (INR)
Sources of Funds			
Corpus fund	1	481,886,790	651,717,829
Secured Loans	2	35,324	-
Unsecured loans	3	787,300,000	617,200,000
Total		1,269,222,114	1,268,917,829
Application of Funds			
Fixed Assets	4		
Net written down value		1,276,740,270	1,299,004,586
Capital work in progress		4,437,254	14,142,518
		1,281,177,524	1,313,147,102
Investments	5	5,000,000	5,025,000
Current Assets			
Sundry debtors	6	10,758,980	5,003,830
Cash and bank balances	7	249,010,482	184,389,805
Other current assets	8	108,195,930	84,425,341
Loans and advances	9	35,485,574	28,825,705
		403,450,967	302,644,681
Less: Current Liabilities and Provisions	10		
Current liabilities		279,024,711	240,683,325
Provisions		141,381,866	111,215,629
		420,406,577	351,898,954
Net Current Assets/ (Liabilities)		(16,955,410)	(49,254,273)
Total		1,269,222,114	1,268,917,829
Significant Accounting Policies and Notes to Accounts	15		

The Schedules referred to above form an integral part of the Balance Sheet.
This is the Balance Sheet referred to in our report of even date.

For Price Waterhouse Chartered Accountants LLP
Firm Registration Number : 012754N/N500016

Sanakhi

Abhishek Rara
Partner
Membership No. 077779

Place: GURGAON
Date: JUNE 04, 2016

For and on behalf of SSN Trust

Roshni Nadar

Roshni Nadar Malhotra
Trustee

Pawan K. Danwar

Pawan K. Danwar
Chief Financial Officer

Place: DELHI
Date: JUNE 04, 2016

SSN Trust
Income and Expenditure Account for the year ended March 31, 2016

	Schedule	Year Ended March 31, 2016 (INR)	Year Ended March 31, 2015 (INR)
Income			
Tuition fees and other collection from students	11	599,385,601	563,863,784
Donation received		1,761,603	1,140,160
Other income	12	53,047,299	57,079,529
Total		654,194,503	622,083,473
Expenditure			
Personnel cost	13	493,334,585	449,462,465
Other operating and general expenses	14	238,127,119	212,997,512
Depreciation/amortisation	4	92,563,837	100,525,385
Total		824,025,542	762,985,362
Excess of expenditure over Income /(Net Deficit)		(169,831,039)	(140,901,889)
Significant Accounting Policies and Notes to Accounts	15		

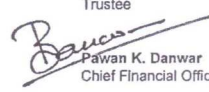
The Schedules referred to above form an integral part of the Income and Expenditure Account.
This is the Income and Expenditure Account referred to in our report of even date.

For Price Waterhouse Chartered Accountants LLP
Firm Registration Number : 012754/N/500016


Abhishek Rara
Partner
Membership No. 077779

Place: GURGAON
Date: JUNE 04, 2016

For and on behalf of SSN Trust


Roshni Nadar Malhotra
Trustee

Pawan K. Danwar
Chief Financial Officer

Place: DELHI
Date: JUNE 04, 2016

SSN Trust
Balance Sheet as at March 31, 2015

	Schedule	As at March 31, 2015 (INR)	As at March 31, 2014 (INR)
Sources of Funds			
Corpus fund	1	651,717,829	792,619,718
Unsecured loans	2	617,200,000	511,300,000
Total		1,268,917,829	1,303,919,718
Application of Funds			
Fixed Assets	3		
Net written down value		1,299,004,586	1,283,181,129
Capital work in progress		14,142,516	10,582,987
Investments	4	5,025,000	5,025,000
Current Assets			
Sundry debtors	5	5,003,830	3,509,455
Cash and bank balances	6	184,389,805	189,469,575
Other current assets	7	84,425,341	63,983,605
Loans and advances	8	28,825,705	26,729,151
		302,644,681	283,701,786
Less: Current Liabilities and Provisions	9		
Current liabilities		240,683,325	207,913,166
Provisions		111,215,629	70,658,018
Net Current Assets/ (Liabilities)		351,898,954	278,571,184
Total		1,268,917,829	1,303,919,718
Significant Accounting Policies and Notes to Accounts	14		

The Schedules referred to above form an integral part of the Balance Sheet.
This is the Balance Sheet referred to in our report of even date.

For Price Waterhouse Chartered Accountants LLP
Firm Registration Number : 012754N/N500016

Abhishek Rara

Abhishek Rara
Partner
Membership No. 077779

Place: TOKYO
Date: JUNE 22, 2015

For and on behalf of SSN Trust

(R)

Roshni Nadar
Roshni Nadar Malhotra
Trustee

Pawan K. Danwar
Pawan K. Danwar
Chief Financial Officer

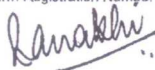
PLACE: NEW DELHI
DATE: JUNE 22, 2015

SSN Trust
Income and Expenditure Account for the year ended March 31, 2015

	Schedule	Year Ended March 31, 2015 (INR)	Year Ended March 31, 2014 (INR)
Income			
Tuition fees and other collection from students	10	563,863,784	523,681,472
Donation received		1,140,160	984,073
Other income	11	57,079,529	51,132,253
Total		622,083,473	575,797,798
Expenditure			
Personnel cost	12	449,462,465	365,473,946
Other operating and general expenses	13	212,997,512	205,161,081
Depreciation/amortisation	3	100,525,385	90,343,278
Total		762,985,362	660,978,305
Excess of expenditure over Income (Net Deficit)		(140,901,889)	(85,180,507)
Significant Accounting Policies and Notes to Accounts	14		

The Schedules referred to above form an integral part of the Income and Expenditure Account.
This is the Income and Expenditure Account referred to in our report of even date.

For Price Waterhouse Chartered Accountants LLP
Firm Registration Number : 012754/N/N500016



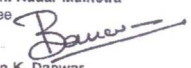
Abhishek Rara
Partner
Membership No. 077779

Place: 10 K40
Date: JUNE 22, 2015

For and on behalf of SSN Trust



Roshni Nadar Malhotra
Trustee


Pawan K. Danwar
Chief Financial Officer

PLACE: NEW DELHI
DATE: JUNE 22, 2015

SSN Trust

Balance Sheet as at March 31, 2014

	Schedule		As at March 31, 2014 (INR)	As at March 31, 2013 (INR)
Sources of Funds				
Corpus fund	1		792,619,718	877,800,225
Unsecured loans	2		511,300,000	421,000,000
Total			1,303,919,718	1,298,800,225
Application of Funds				
Fixed Assets				
Net written down value	3	1,283,181,129		1,297,312,013
Capital work in progress		10,582,987	1,293,764,116	10,042,721
Investments	4		5,025,000	5,025,000
Current Assets				
Sundry debtors	5	3,509,455		147,010
Cash and bank balances	6	189,469,575		187,551,723
Other current assets	7	63,993,605		46,092,572
Loans and advances	8	26,729,151		25,164,188
		283,701,786		258,955,493
Less: Current Liabilities and Provisions				
Current liabilities	9	207,913,166		216,741,286
Provisions		70,658,018		55,793,716
		278,571,184		272,535,002
Net Current Assets/ (Liabilities)			5,130,602	(13,579,509)
Total			1,303,919,718	1,298,800,225
Significant Accounting Policies and Notes to Accounts	14			

The Schedules referred to above form an integral part of the Balance Sheet.
This is the Balance Sheet referred to in our report of even date.

For Price Waterhouse
Firm Registration Number - 012754N
Chartered Accountants

Abhishek Rara

Abhishek Rara
Partner
Membership No. 077779

Place: *Singapore*
Date: *June 03, 2014*

For and on behalf of SSN Trust

Roshni Nadar

Roshni Nadar Malhotra
Trustee

PLACE: *Noida*
DATE: *June 03, 2014*

SSN Trust

Income and Expenditure Account for the year ended March 31, 2014

	Schedule	Year Ended March 31, 2014 (INR)	Year Ended March 31, 2013 (INR)
Income			
Tuition fees and other collection from students	10	523,681,472	451,711,859
Donation received		984,073	588,701
Other income	11	51,132,253	46,634,876
Total		575,797,798	498,935,436
Expenditure			
Personnel cost	12	365,473,946	323,860,479
Other operating and general expenses	13	205,161,081	176,789,977
Depreciation/amortisation	3	90,343,278	89,843,467
Total		660,978,305	590,493,923
Excess of expenditure over income (Net Deficit)		(85,180,507)	(91,558,487)
Significant Accounting Policies and Notes to Accounts	14		

The Schedules referred to above form an integral part of the Income and Expenditure Account.
This is the Income and Expenditure Account referred to in our report of even date.

For Price Waterhouse
Firm Registration Number - 012754N
Chartered Accountants

Abhishek Rara

Abhishek Rara
Partner
Membership No. 077779

Place: *Singapore*
Date: *June 03, 2014*

For and on behalf of SSN Trust

Roshni Nadar

Roshni Nadar Malhotra
Trustee

PLACE: *Noida*
DATE: *June 03, 2014*

SSN Trust

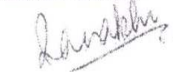
Balance Sheet as at March 31, 2013

	Schedule	As at March 31, 2013 (INR)	As at March 31, 2012 (INR)
Sources of Funds			
Corpus fund	1	877,800,225	969,358,712
Unsecured loan	2	421,000,000	377,600,000
Total		1,298,800,225	1,346,958,712
Application of Funds			
Fixed Assets	3		
Net written down value		1,297,312,013	1,325,901,452
Capital work in progress		10,042,721	15,195,748
		1,307,354,734	1,341,097,200
Investments	4	5,025,000	18,336,014
Current Assets			
Cash and bank balances	5	187,551,723	181,831,713
Other current assets	6	48,092,572	29,962,794
Loans and advances	7	25,311,158	22,328,140
		258,955,493	234,122,647
Less: Current Liabilities and Provisions	8		
Current liabilities		216,741,286	210,969,820
Provisions		55,793,716	35,622,329
		272,535,002	246,592,149
Net Current Assets/ (Liabilities)		(13,579,509)	(12,469,502)
Total		1,298,800,225	1,346,958,712
Significant Accounting Policies and Notes to Accounts	13		

The Schedules referred to above form an integral part of the Balance Sheet.

This is the Balance Sheet referred to in our report of even date.

For Price Waterhouse
Firm Registration Number - 012754N
Chartered Accountants



Abhishek Rara
Partner
Membership No. 077779

Place: Aurangabad
Date: May 16, 2013

For and on behalf of SSN Trust



Roshni Nadar Malhotra
Trustee

Place: Kovilada
Date: May 16, 2013

SSN Trust			
Income and Expenditure Account for the year ended March 31, 2013			
	Schedule	Year Ended March 31, 2013 (INR)	Year Ended March 31, 2012 (INR)
Income			
Tuition fees and other collection from students	9	451,711,859	390,142,489
Donation received		588,701	862,358
Other income	10	46,634,876	42,016,445
Total		<u>498,935,436</u>	<u>433,021,292</u>
Expenditure			
Personnel cost	11	323,860,479	270,680,380
Other operating and general expenses	12	176,789,977	165,544,488
Depreciation/amortisation	3	89,843,467	88,400,157
Total		<u>590,493,923</u>	<u>524,625,025</u>
Excess of expenditure over income		<u>(91,558,487)</u>	<u>(91,603,733)</u>
Significant Accounting Policies and Notes to Accounts	13		

The Schedules referred to above form an integral part of the Income and Expenditure Account.

This is the Income and Expenditure Account referred to in our report of even date.

For Price Waterhouse
Firm Registration Number - 012754N
Chartered Accountants

Abhishek Rara

Abhishek Rara
Partner
Membership No. 077779

Place: Gurgaon
Date: May 16, 2012

For and on behalf of SSN Trust

Roshni Nadar

Roshni Nadar Malhotra
Trustee

Place: Noida
Date: May 16, 2012

6.4.4 Give details on the efforts made by the institution in securing additional funding and the utilization of the same (if any):

Nil

6.5 Internal Quality Assurance System (IQAS)

6.5.1 Internal Quality Assurance Cell (IQAC)

SSN has set up a Quality Management System under the aegis of SSN – Internal Quality Assurance Cell (SSN – IQAC) for education and research. SSN is one of the early educational institutes to be certified by ISO 9000:1998 in the year 2000, and it is a pioneer in setting International Quality Standards in education and research. At present, SSN is certified by TUV India Limited (TUV Nord Group) with latest version of ISO 9001: 2015

Some of the quality initiatives by the institutions are highlighted below:

- **It has created a Repository of Academic Resources** for innovative teaching methods and research contributions in the field of Science, Engineering, Technology and Management.
- **Improvement of credibility and image:** This initiative has established premier position among all the stakeholders of the society. The college is now the first choice for all aspiring students and a quality resource bank for Employers.
- **Improvement of customer satisfaction** – One of the quality management principles of the IQAC is to improve customer satisfaction by planning and striving to meet customer requirements. SSN has always striven for improving customer satisfaction.
- **Better process integration** – SSN has achieved overall process interactions through the process approach of IQAC. This initiative has resulted in improvements in efficiency and effectiveness of academic delivery system.
- **Improved evidence based decision making** – A management principle of quality assurance of IQAC is the need to use evidence-based decision making. SSN has inculcated this culture among all internal stakeholders.
- **Created a continual improvement culture** – Continual improvement is another management principle of quality assurance of IQAC. SSN has adopted and integrated this culture to every quality system in the organization for improving processes and organizational output.
- **Engagement of employees** – SSN Employees are involved in the improvements of the processes they work with, and they are happier and more engaged employees.

6.5.2 Does the institution have an integrated framework for Quality assurance of the academic and administrative activities? If 'yes', give details on its operationalisation.

Yes.

Every department has at least one IQAC Coordinator. Depending on the size and number of programs offered by the department, it has multiple coordinators. Apart from coordinators, each department has two qualified internal auditors. Auditors perform semi annual quality audits periodically and submit reports for continual improvements. All staff members are provided with orientation, and all staff members undergo periodical audit of their academic and administrative activities.

6.5.3 Does the institution provide training to its staff for effective implementation of the Quality assurance procedures? If 'yes', give details enumerating its impact.

Yes.

The institution organizes training programme periodically for internal auditors and lead auditor by inviting quality training experts and also by qualified internal auditors and Departmental Coordinators.

6.5.4 Does the institution undertake Academic Audit or other external review of the academic provisions? If 'yes', how are the outcomes used to improve the institutional activities?

The institution was inspected by a Peer Review committee comprising eminent academicians from all over the country led by Dr. R. Natarajan, former Chairman, AICTE. Its observations were made available to the top management as a review document.

The institution analyses the results of university examination after every semester and decides as to how best the percentage of result can be improved. This meeting is attended by the faculty of respective departments. For NBA, the college has conducted a mock accreditation drill to bring out any shortcomings in the process which has already been indicated so that a corrected version can be uploaded on the web.

6.5.5 How are the internal quality assurance mechanisms aligned with the requirements of the relevant external quality assurance agencies/regulatory authorities?

Every year an audit is carried out by external auditors and internal audit is carried out once in six months. The observation, opportunity for improvement and non-conformity indicated by the auditors are rectified at the earliest.

6.5.6 What institutional mechanisms are in place to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?

The academic Quality Management System team meets once a year to review the proper functioning of the teaching learning process.

6.5.7 How does the institution communicate its quality assurance policies, mechanisms and outcomes to the various internal and external stakeholders?

Every department publishes a monthly magazine comprising the events in the department including conferences, research publications and visits of eminent scientists. This is electronically sent to all stakeholders namely teachers, students, alumni and industries for their perusal and comments if any.

Chapter VII INNOVATION AND BEST PRACTICES

7.1 Environment Consciousness

7.1.1 Does the institute conduct a Green Audit of its campus and facilities?

The institution has not conducted a Green Audit of its campus and facilities, *per se*. Nevertheless, it is conscious of the need for keeping the campus green and eco-friendly. The steps taken are: The virgin greenery of the campus is maintained. To compensate for the loss of greenery due to the built up area, extensive green coverage has been created. The sewage is treated with a full fledged STP, and the treated water is extensively used to maintain the lawn and watering the trees. Periodical maintenance is done to the STP, so that it functions efficiently throughout the year without interruption.

The rain water is diverted through wide green shallow channels spread over the entire campus which are connected to a pond located on the North East end of the campus, thus ensuring the conservation of rainwater. The college is about 5 km from the sea, and deep wells will result in saline water intrusion and hence, all the sixteen wells spread over the entire campus are shallow, not more than 10m deep. There is a network of well laid out lined channels, which, during heavy rains, discharge the surface water into the *nallah* there by preventing flooding.

The bank of solar panels located in the open terrace, is essentially used for research; yet, it is used to light partially the street lamps in the campus during nights. A wind mill is on the cards for erection, near the EEE block.

The power position is rather bleak in the state; hence, we are left with no alternative other than relying on the diesel power for the effective running of the Institute. Perhaps, after commissioning of the second unit of IGCAR, the reliance on the DG sets may decrease.

7.1.2 What are the initiatives taken by the college to make the campus eco-friendly?

The institution periodically de-silts the two lakes on the sides of the campus, and annually cleans the feeder channels of the wild growth, thus maintaining the water body. The extensive growth of trees in the campus is ample proof of the intent of the Management to make the campus eco-friendly. The college periodically issues instructions to switch off the lights, fans and AC units when not in use, contributing to a certain extent for the conservation of energy. Vamasundari Park, over an area of three acres in the midst of the campus is a very good example for the attitude of the Institute to maintain the green cover in the campus. Hazardous materials/chemicals are not used in any

of the laboratories. The e-waste is periodically segregated, collected and sent to Thirupporur Panchayat and the Panchayat sends it for reclamation.

7.2 Innovations

7.2.1 Innovations introduced during the last four years

Digital delivery of Courses

All classrooms are digitally enabled, with dedicated laptop, projector and Wi-Fi connectivity. Most lectures are through power point presentations uploaded in Intranet and available for students at any point of time.

Beyond Syllabus Learning

Beyond syllabus learning is encouraged through workshops, conferences and guest lectures. On an average, each department conducts one conference, five workshops and five guest lectures every year. Students get an exposure to external world and industry activity through these interventions.

Research Orientation at UG level

The Institution has a system of calling for proposals from students, evaluating them through external experts and then sanctioning funds for projects, if worthwhile. For example, in 2016 August, 150 projects have been sanctioned with a funding support of Rs.29.42 Lakh. This benefits 360 students guided by 86 faculty. Such a support has helped in creating a conducive atmosphere for research, leading to students publishing in International Journals of repute.

Emphasis on Project Based Learning

Several external trainers are brought in to expose students to Automotive and Robotics areas. This has resulted in our students fabricating their own cars for competitions like SUPRA, BAJA etc., conducted by Society of Automotive Engineers (SAE). As a highlight to all these achievements, the Management has started an Innovation Club in 2016, guided by Prof. Idichandy of IIT Madras.

Facilitation of Leadership Development

Every year students are permitted to run a major cultural event called "INSTINCTS" and department level technical Symposiums. This exposes the students to event management and networking thereby, enabling Leadership Development.

7.3 Best Practices

1. Title of the Practice	
(1) Usage of electronic media in teaching & Learning:	(2) Early induction of a student into research.

2. Goal	
<p>This is being extensively used for almost all the courses, so that the student is able to understand the topic better.</p> <p>The aim is to see that the student has a clear perception of what is being taught and he is able to pursue it on his own, based on the material provided by the instructor.</p>	<p>The aim is to create a desire in the students to pursue research either as a career or as a part of earning a research degree e.g. M.S. or Ph.D.</p>
3. The Context	
<p>The faculty teaching a subject splits the syllabus into convenient modules, so that the prerequisites of one module have already been taught to the student earlier, and there is cogency. For each module, he/she prepares a set of information, sketches, graphs etc. and uploads it in the intranet, which the student can browse and see and understand at his own pace and comes prepared to the following class. The teacher elaborates the uploaded notes with illustrations or case studies or even videos, so that the topic gets embedded into the minds of the students. In addition, he gives a set of locations, where additional explanations are given or where information for further studies is available.</p> <p>http://www.ssn.net/twiki/bin/view/PhyIntranet/PhyElearning http://www.ssn.net/twiki/bin/view/EceIntranet/EceEngPhy-A-15</p>	<p>Over a period of a year, it is possible to identify a student, who has a research potential or ambition. During his second year, he can be tagged on to a research scholar, who is pursuing research i.e. Ph.D. to assist him in Literature survey, formation of a circuit or fabrication of an experimental set up, during his free time without detriment to his own studies. He will be asked to study, understand and reproduce in his own words an already published article. Thus he will get himself involved in the nuances of research.</p>
4. The Practice	
<p>It has been made mandatory for the entire faculty to pursue, except for those teaching subjects like Mathematics, Accounting, Ethics etc. which need elaborate use of chalk and talk. It is being overseen by the HoD concerned. The students express their opinion either in the class committee meetings or in their feedback on the teacher.</p>	<p>Encouragement is given to students to submit a project proposal, on an item he feels will qualify as a research topic or innovation, for funding by the Trust. A team of faculty scrutinizes the methodology and grants or suggests improvements for funding.</p>

5. Evidence of Success									
The evidence of success is the percentage passes and the marks earned in the subject over a period of say three years.					The evidence of success is the number of students, who choose research as a career, after graduation				
Sl. No.	Subject	Pass percentages in the years			Sl. No.	Branch	Number of Students who have opted for research as a career after completing their degree in the year		
		2013-14	2014-15	2015-16			2013-14	2014-15	2015-16
1	PH 2161 Engineering Physics II	98.00	98.00	96.2	1	EEE	2	4	-
					2	ECE	4	5	10
					3	CSE	1	3	1
					4	IT	2	1	-
					5	Chemical	3	-	1
					6	BME	-	1	11
					7	Mech	2	3	3
6. Problems Encountered and Resources Required									
In this age of Internet and mobiles usurping all the time of the student, it is rather difficult to make him go through the pre class material posted in the intranet prior to the class. Except for the unit test spread over a period of 90 days, it is difficult to test the class, on a specific topic. The college being an affiliated one, the pattern of question paper, of which the student is more concerned, is not eliciting the knowledge but ability to reproduce and the teacher has no say in this. Over a period of time it will certainly change.					The continuous engagement of the student with his own programme and the lack of time, normally prevents him to take a serious look at research, even during his free time.				
8. Contact Details									
Name of the Principal					: S. Salivahanan				
Work Phone					: 044-27469700				
Name of the Institution					: Sri Sivasubramaniya Nadar College of Engg. Rajiv Gandhi Salai (OMR) Kalavakkam – 603110, Tamil Nadu				
Web Site					: www.ssn.edu.in				
City: Kalavakkam					: Mobile: 09444189433				
Pin Code					: 603110				
Fax					: 044-27469772				
Accredited Status					: Accredited				
E-Mail					: Principal: salivahanans@ssn.edu.in Institution: info@ssn.edu.in				

POST ACCREDITATION INITIATIVES

Early induction of students into research

The students who are expressive and exhibit some intuitive ideas are selected based on their performance in the tests and other college activities, irrespective of the domains. Such students are tagged on to one of the Ph.D. scholars, essentially to assist him in the scholar's research. He gets to know the broad area in which the Ph.D. scholar is interested. The scholar gives an article dealing with the fundamentals of the area in which he intends doing research. The student is asked to write the same paper, in his own style, thus making him understand the experimentation or circuitry or fabrication the author has done and its limitations. The student is informed of the locations where further information is available. The student gets to know the area in which he would like to pursue, in case he is to do research. He might propose a project, with the guidance of a teacher, and if found that it could be tried, the Trust would fund it to the extent possible, thus moulding him to research. Quite a number of projects are being funded by the Trust to encourage students to venture into their innovative ideas.

Project based learning

There is a saying "Seeing is believing and doing betters it". In pursuance of this it is felt, a small project could be given to students while they are in their Fourth semester itself, something in which they may be interested. The student gives his ideas; faculty examines them and even if it is remotely feasible, allows him to experiment, without worrying about the failure. He may create a circuitry or programme to make, say, an unmanned level crossing safe, make a machine to bowl the ball during net practice, what to do to maintain the whiteness of the white board over a period of time and the like. He presents his ideas to a set of juries and they may give some more suggestions, and they may recommend it for funding by the Trust. They may or may not be successful in their effort, but this helps them understand the sequence to be followed, intricacies of events and introduces him to the challenges in the projects. Incidentally it also prepares him to face a failure as well, upright. It has been experimented in most of the departments for implementations, and we are still in the evolving stage.

Research included in the QMS

There has been a paradigm shift to research from 2000 onwards. In order to make it shape in an orderly fashion, it was also brought into the folds of QMS from 2013. Hence, the publications, projects both internal and externally funded, purchase of equipment for research, travel cost, and the settling of accounts have been brought under the QMS.

SRI SIVASUBRAMANIYA NADAR COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi and Affiliated to Anna University)

Rajiv Gandhi Salai (OMR), Kalavakkam - 603 110, TN, India.

Tel : +91 44 27469700

Fax : +91 44 27469772

www.ssn.edu.in

Administrative Office: 211/95, V.M. Street, Mylapore, Chennai - 600 004.

Telefax : +91 44 24982656, 24986474

DECLARATION BY THE HEAD OF THE INSTITUTION

I certify that the data included in this Self-Study Report (SSR) are true to the best of my knowledge.

The Self Study Report (SSR) is prepared by the institution after internal discussions, and no part thereof, has been outsourced.

I am aware that the Peer team will validate the information provided in this SSR during the peer team visit.

S. Salivan

**Signature of the Head of the Institution
with seal**

Dr. S. Salivahanan
Principal

Sri Sivasubramaniya Nadar
College of Engineering
Rajiv Gandhi Salai (OMR)
Kalavakkam - 603 110

Place: Kalavakkam - 603110
Date: June 05, 2017



SSN

SRI SIVASUBRAMANIYA NADAR COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi and Affiliated to Anna University)

Rajiv Gandhi Salai (OMR), Kalavakkam – 603 110, TN, India.

Tel : +91 44 27469700

Fax : +91 44 27469772

www.ssn.edu.in

Administrative Office: 211/95, V.M. Street, Mylapore, Chennai - 600 004.

Telefax : +91 44 24982656, 24986474

CERTIFICATE OF COMPLIANCE

(Affiliated Colleges)

This is to certify that **Sri Sivasubramaniya Nadar College of Engineering, Rajiv Gandhi Salai (OMR), Kalavakkam – 603110** fulfils all norms

1. Stipulated by the affiliating University and
2. Regulatory Council /Body[such as UGC, NCTE, AICTE, MCI, DCI, BCI, etc.] and
3. The affiliation and recognition is valid as on date.

In case the affiliation / recognition is conditional, then a detailed enclosure with regard to compliance of conditions by the institution will be sent.

It is noted that NAAC's accreditation, if granted, shall stand cancelled automatically, once the institution loses its University affiliation or Recognition by the Regulatory Council, as the case may be.

In case the undertaking submitted by the institution is found to be false then the accreditation given by NAAC is liable to be withdrawn. It is also agreeable that the undertaking given to NAAC will be displayed on the college website.

Date: June 05, 2017

Place: Kalavakkam – 603 110

*S. Salivan*

Principal / Head of the Institution
(Name and Signature with Office seal)

Dr. S. Salivahanan
Principal

Sri Sivasubramaniya Nadar
College of Engineering
Rajiv Gandhi Salai (OMR)
Kalavakkam - 603 110

SSN

AICTE Approval Letters (2016-17)



All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-india.org

F.No. Southern/1-2811256746/2016/EOA

Date: 25-Apr-2016

To,

The Principal Secretary
(Higher Education) Govt. of Tamil Nadu,
N. K. M. Bld. 6th Floor Secretariat,
Chennai-600009

Sub: Extension of approval for the academic year 2016-17

Ref: Application of the Institution for Extension of approval for the academic year 2016-17

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2012 notified by the Council vide notification number F.No.37-3/Legal/2012 dated 27/09/2012 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

Regional Office	Southern	Application Id	1-2811256746
Name of the Institute	SRI SIVASUBRAMANIYA NADAR COLLEGE OF ENGINEERING	Permanent Id	1-1229101
Name of the Society/Trust	SSN TRUST	Institute Address	RAJIV GANDHI SALAI (OMR) KALAVAKKAM - 603 110 KANCHIPURAM DIST TAMIL NADU, KALAVAKKAM, KANCHIPURAM, Tamil Nadu, 603110
Institute Type	Unaided - Private	Society/Trust Address	NO.211/95, V M STREET TAMIL NADU, CHENNAI, CHENNAI, Tamil Nadu, 600004

Opted for change from Women to Co-ed and Vice versa	No	Opted for change of name	No	Opted for change of site	No
Change from Women to Co-ed approved and Vice versa	Not Applicable	Change of name Approved	Not Applicable	Change of site Approved	Not Applicable

To conduct following courses with the intake indicated below for the academic year 2016-17

Application Id: 1-2811256746			Course		Affiliating Body	Intake 2015-16	Intake Approved for 2016-17	NET Approval status	PIO / PN / Gulf quota Approval status	Foreign Collaboration/Twinning Program Approval status
Program	Shift	Level		Full/Part Time						
ENGINEERING AND	1st Shift	POST GRA	APPLIED ELECTRONICS	FULL TIME	Anna University, Chennai	18	18	Yes	Yes	NA

Application Number: 1-2811256746

Note: This is a Computer generated Report.No signature is required.

Printed By : AEB86771

Page 1 of 4
Letter Printed On:28 April 2016



All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-india.org

TECHNOLOGY		DUA								
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	COMMUNICATION SYSTEMS	FULL TIME	Anna University, Chennai	36	36	Yes	Yes	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	COMPUTER SCIENCE & ENGINEERING	FULL TIME	Anna University, Chennai	36	36	Yes	Yes	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	ENERGY ENGINEERING	FULL TIME	Anna University, Chennai	18	18	Yes	Yes	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	ENVIRONMENTAL SCIENCE AND TECHNOLOGY	FULL TIME	Anna University	18	18	Yes	Yes	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	INFORMATION TECHNOLOGY	FULL TIME	Anna University, Chennai	18	18	Yes	Yes	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	MANUFACTURING ENGINEERING	FULL TIME	Anna University, Chennai	18	18	Yes	Yes	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	MEDICAL ELECTRONICS	FULL TIME	Anna University	18	18	Yes	Yes	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	POWER ELECTRONICS AND DRIVES	FULL TIME	Anna University, Chennai	18	18	Yes	Yes	NA
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	SOFTWARE ENGINEERING	FULL TIME	Anna University, Chennai	18	18	Yes	Yes	NA
	1st	POST	VLSI DESIGN	FULL	Anna	36	36	Yes	Yes	NA

Application Number: 1-2811356746

Note: This is a Computer generated Report.No signature is required.

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Page 2 of 4

Letter Printed On:28 April 2016



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(A Statutory body under Ministry of HRD, Govt. of India)

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ENGINEERING AND TECHNOLOGY	Shift	UNDERGRADUATE		TIME	University, Chennai					
ENGINEERING AND TECHNOLOGY	1st Shift	UNDERGRADUATE	BIOMEDICAL ENGINEERING	FULL TIME	Anna University, Chennai	60	60	Yes	Yes	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDERGRADUATE	CHEMICAL ENGINEERING	FULL TIME	Anna University, Chennai	60	60	Yes	Yes	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDERGRADUATE	CIVIL ENGINEERING	FULL TIME	Anna University, Chennai	60	60	Yes	Yes	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDERGRADUATE	COMPUTER SCIENCE & ENGINEERING	FULL TIME	Anna University, Chennai	120	120	Yes	Yes	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDERGRADUATE	ELECTRICAL AND ELECTRONICS ENGINEERING	FULL TIME	Anna University, Chennai	120	120	Yes	Yes	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDERGRADUATE	ELECTRONICS & COMMUNICATIONS ENGINEERING	FULL TIME	Anna University, Chennai	120	120	Yes	Yes	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDERGRADUATE	INFORMATION TECHNOLOGY	FULL TIME	Anna University, Chennai	120	120	Yes	Yes	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDERGRADUATE	MECHANICAL ENGINEERING	FULL TIME	Anna University, Chennai	120	120	Yes	Yes	NA

The above mentioned approval is subject to the condition that SRI SIVASUBRAMANIYA NADAR COLLEGE OF ENGINEERING shall follow and adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the institution along with the application submitted by the institution on portal.

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved

Application Number: 1-2811256746

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by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation:- Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

Note: Validity of the course details may be verified at www.aicte-india.org

Dr. Avinash S Pant
Vice - Chairman, AICTE

Copy to:

1. **The Regional Officer,**
All India Council for Technical Education
Shastri Bhawan 26, Haddows Road
Chennai - 600 006, Tamil Nadu
2. **The Director Of Technical Education,**
Tamil Nadu
3. **The Registrar,**
Anna University
4. **The Principal / Director,**
SRI SIVASUBRAMANIYA NADAR COLLEGE OF ENGINEERING
RAJIV GANDHI SALAI (OMR)
KALAVAKKAM - 603 110
KANCHIPURAM DIST
TAMIL NADU,
KALAVAKKAM, KANCHIPURAM,
Tamil Nadu, 603110
5. **The Secretary / Chairman,**
SSN TRUST
NO.211/95, V M STREET
TAMIL NADU,
CHENNAI, CHENNAI,
Tamil Nadu, 600004
6. **Guard File(AICTE)**

Application Number: 1-2811256746
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Letter Printed On:28 April 2016



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7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-india.org

F.No. Southern/1-2811134224/2016/EOA

Date: 25-Apr-2016

To,

The Principal Secretary
(Higher Education) Govt. of Tamil Nadu,
N. K. M. Bld. 6th Floor Secretariat,
Chennai-600009

Sub: Extension of approval for the academic year 2016-17

Ref: Application of the Institution for Extension of approval for the academic year 2016-17

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2012 notified by the Council vide notification number F-No.37-3/Legal/2012 dated 27/09/2012 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

Regional Office	Southern	Application Id	1-2811134224
Name of the Institute	SSN SCHOOL OF MANAGEMENT	Permanent Id	1-6075311
Name of the Society/Trust	SSN TRUST	Institute Address	RAJIV GANDHI SALAI (OMR) KALAVAKKAM - 603110 KANCHIPURAM DIST., KALAVAKKAM, KANCHIPURAM, Tamil Nadu, 603110
Institute Type	Unaided - Private	Society/Trust Address	SSN TRUST 21/55 V M STREET MYLAPORE CHENNAI, CHENNAI, CHENNAI, Tamil Nadu, 600004

Opted for change from Women to Co-ed and Vice versa	No	Opted for change of name	No	Opted for change of site	No
Change from Women to Co-ed approved and Vice versa	Not Applicable	Change of name Approved	Not Applicable	Change of site Approved	Not Applicable

To conduct following courses with the intake indicated below for the academic year 2016-17

Application Id: 1-2811134224			Course		Affiliating Body					
Program	Shift	Level		Full/Part Time			Intake 2015-16	Intake Approved for 2016-17	NRI Approval status	PIO / FN / Gulf quota Approval status
MANAGEMENT	1st Shift	POST GRADUATE	MASTERS IN BUSINESS ADMINISTRATION	FULL TIME	Anna University, Chennai		120	120	NA	NA

Application Number: 1-2811134224

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Page 1 of 3
Letter Printed On: 26 April 2016



All India Council for Technical Education
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PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-india.org

		TE								
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The above mentioned approval is subject to the condition that SSN SCHOOL OF MANAGEMENT shall follow and adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the institution along with the application submitted by the institution on portal.

Course(s) Applied for Closure by the Institute for the AY 2016-17:

Application Id: 1-2811134224			Name of the Course	Full/Part Time	Affiliating Body	Course Closure Status
Program	Shift	Level				
MANAGEMENT	1st Shift	POST GRADUATE DIPLOMA	POST GRADUATE DIPLOMA IN MANAGEMENT : (Last Approved Intake 60)	FULL TIME	None,	Pending ^a

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation:- Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

Note: Validity of the course details may be verified at www.aicte-india.org

Dr. Avinash S Pant
Vice - Chairman, AICTE

Copy to:

1. **The Regional Officer,**
All India Council for Technical Education
Shastri Bhawan 26, Haddows Road
Chennai - 600 006, Tamil Nadu
2. **The Director Of Technical Education,**
Tamil Nadu
3. **The Registrar,**
Anna University, Chennai
4. **The Principal / Director,**
SSN SCHOOL OF MANAGEMENT

Application Number: 1-2611134224

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Page 2 of 3
Letter Printed On: 26 April 2016



All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-india.org

RAJIV GANDHI SALAI (OMR)
KALAVAKKAM - 603110
KANCHIPURAM DIST.,
KALAVAKKAM, KANCHIPURAM,
Tamil Nadu, 603110

5. The Secretary / Chairman,

SSN TRUST
SSN TRUST
21/95 V M STREET
MYLAPORE
CHENNAI,
CHENNAI, CHENNAI,
Tamil Nadu, 600004

6. Guard File(AICTE)

Application Number: 1-2611134224
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Page 3 of 3
Letter Printed On:26 April 2016

**Anna University Affiliation Letters
(2016-17)**



REGISTRAR

ANNA UNIVERSITY

CHENNAI - 600 025, INDIA

Phone : (O) 22352161, 22357004

Fax : 91-44-2235 1956

Gram : ANNATECH

E-mail : registrar@annauniv.edu

Lr No. 02 /AFFLN/CAI/AU/2016-17/3122

Date: 13-05-2016

To

The Principal,
Sri Sivasubramaniya Nadar College of Engineering, Rajiv
Gandhi Salai (OMR) Kalavakkam 603 110 Kanchipuram
District.-603110

Sir,

Sub: AU - AFFILIATION - Provisional Affiliation for the existing course(s) / New course(s) / variation in intake - U.G. / P.G. for the academic year 2016-17 Granted - Reg.

Ref: 1. Your application for affiliation for the academic year 2016-17

2. AICTE Approval for the academic year 2016-17.

I am to inform that under the provisions of Section 7.6.1 of the Statutes for affiliation of Anna University, Chennai, **Provisional Affiliation** for the continuation of the existing course(s) / new course(s) / variation in intake in the existing course(s) is granted for the following U.G / P.G. courses with the sanctioned intake mentioned against each course for the academic year 2016-17 at Sri Sivasubramaniya Nadar College of Engineering, Rajiv Gandhi Salai (OMR) Kalavakkam 603 110 Kanchipuram District.-603110.

Sl. No.	Degree	Course(s)	Sanctioned Intake	
			2015-16	2016-17
1	B.E.	Bio-Medical Engineering	60	60
2	B.E.	Civil Engineering	60	60
3	B.E.	Mechanical Engineering	120	120
4	B.Tech.	Chemical Engineering	60	60
5	M.E.	Communication Systems	36	36
6	M.E.	Energy Engineering	18	18
7	M.E.	Manufacturing Engineering	18	18
8	M.E.	Medical Electronics	18	18
9	M.E.	Software Engineering	18	18
10	M.E.	VLSI Design	36	36
11	M.Tech.	Environmental Science & Technology	18	18
12	M.Tech.	Information Technology	18	18

The above said Provisional Affiliation is being granted subject to the fulfillment of the conditions mentioned below:

- Production of Originals of AICTE / COA / DGS approval and all other related documents for verification, whenever demanded by the University.
- Verification by a Committee towards the fulfillment of the conditions mentioned above and the continued fulfillment of the requirements for the above-mentioned course(s) as per the norms and standards of AICTE / University and the laboratory requirements as per the curricula and syllabi of Anna University, Chennai for the above courses. In the event of any violation/infringement of the above

To
AM
Copy to : AO

S. Sakin
1 of 2

said conditions and / or the provisions of Anna University, Chennai Act / Statutes / Regulations, AICTE Act, norms & standards / regulations / guidelines or any other law being in force, suitable action including suspension / withdrawal of affiliation of course(s) may be initiated against the college.

- Students should not be admitted for the above course(s) for the next academic year without obtaining the order of continuation of provisional affiliation for the next academic year from the University.

The Provisional Affiliation is granted without prejudice to the right of the University of requiring production of certificate required under Section 37-B of TAMILNADU Reforms (LC) Act 1961 subject to the decision of the Hon'ble High Court of Madras in W.A. No. 3454 / 2002 batch and W.A. No. 3482 / 2002 batch.



Yours sincerely,

[Signature]
REGISTRAR
REGISTRAR
ANNA UNIVERSITY
CHENNAI-600 025

Copy to:

1. The Director of Technical Education, DOTE campus, Chennai - 600 025.
2. The Regional Officer, Southern Regional Office, AICTE, 26, Haddows Road, Shastri Bhawan, Chennai 600 006.
3. Master file.



REGISTRAR

ANNA UNIVERSITY

CHENNAI - 600 025, INDIA

Phone : (O) 22352161, 22357004

Fax : 91-44-2235 1956

Gram : ANNATECH

E-mail : registrar@annauniv.edu

Lr. No. 467 / CAI / Permanent Affin. / 2014-15

Dated: 06.11.2014

To

The Principal,
Sri Sivasubramaniya Nadar College of Engineering,
Rajiv Gandhi Salai (OMR) Kalavakkam,
Kanchipuram District – 603 110.

Sir,

Sub: **Permanent Affiliation** - Granting of Permanent Affiliation for the existing programmes – 2014-15 – Reg.

Ref: Your application for the grant of Permanent Affiliation.

I am to inform that under the provisions of section 7.6.2 of the Anna University statutes for affiliation, Permanent Affiliation for the existing programme(s) is granted for the following B.E. / B.Tech. / B.Arch. / M.E. / M.Tech. / M.B.A / M.C.A programme(s) with the sanctioned intake indicated against each from the academic year 2014-15 at **Sri Sivasubramaniya Nadar College of Engineering**, Rajiv Gandhi Salai (OMR) Kalavakkam, Kanchipuram District – 603 110.

Sl. No.	Degree	Programme(s)	Sanctioned intake	Year from which Permanent Affiliation is granted
1.	M.B.A.	Master of Business Administration	120	2014-15
2.	M.E.	Computer Science and Engineering	36	
3.	M.E.	Applied Electronics	18	
4.	M.E.	Power Electronics and Drives	18	

The above said status of Permanent Affiliation is granted subject to the following conditions:

1. The college should obtain extension of approval by the UGC / AICTE / COA / DGS as applicable for every academic year for the above mentioned programmes with the corresponding sanctioned intake. In the absence of extension of approval from the appropriate authority, the Permanent Affiliation now granted will not be valid.
2. In case of increase in intake granted by the appropriate authority for a permanently affiliated programme, the college should apply to the University for the grant of affiliation for the increased intake and orders of the University should be obtained for increasing the intake of the permanently affiliated programme.

3. The college should continue to fulfill the requirements for the above mentioned programmes as per the norms and standards of the University and the laboratory requirements as per the curricula and syllabi of Anna University, Chennai for these programmes.
4. The college should strictly adhere to and comply with the provisions of Anna University Act / Statutes / Regulations norms and standards / guidelines or any other law time being in force.
5. The permanent affiliation granted may be suspended / withdrawn after adopting the procedures laid down in the Regulations, if the college fails to comply with the provisions made in this behalf or the college has failed to observe / implement any of the conditions of affiliation or the college has conducted in a manner which is prejudicial to the interests of University education and/or students.
6. Notwithstanding the granting of Permanent Affiliation, the university reserves its right to inspect the college to verify the continued fulfillment of the affiliation requirements as prescribed by the University for the Programmes concerned.
7. The Permanent Affiliation is granted without prejudice to the right of the University of requiring production of certificate required under Section 37-B of Tamil Nadu Land Reforms (LC) Act 1961 subject to the decision of the Hon'ble High Court of Madras in W.A.No. 3454 / 2002 batch and W.A.No. 3482 / 2002 batch.
8. The Management is directed to submit a duly signed undertaking on a Rs.100/- non-judicial stamp paper to the Registrar, Anna University Chennai, Chennai-600 025, within 15 days from the date of receipt of this letter to the effect that the conditions specified above will be fulfilled.



Yours sincerely

[Signature]
REGISTRAR
REGISTRAR
ANNA UNIVERSITY
CHENNAI-600 025

Copy to:

1. The Commissioner of Technical Education, Chennai – 600 025
2. The Controller of Examinations, Anna University Chennai, Chennai – 600 025.
3. The Director, Student Affairs, Anna University Chennai, Chennai – 600 025.
4. The Director, Academic Courses, Anna University Chennai, Chennai – 600 025.
5. Master File.

To

A.M.

Copy to : Director - SomCA

HOD | CSE
 ECE
 EEE

A.O.

S. Sathya





ANNA UNIVERSITY

CHENNAI - 600 025, INDIA

Phone : (O) 22352161, 22357004
(R) 22420095
Fax : 91-44-2235 1956
Gram : ANNATECH
E-mail : registrar@annauniv.edu

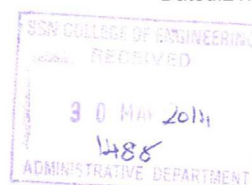
REGISTRAR

Lr. No. 087 / CAI / Permanent Affln. / 2013-14

Dated:21.04.2014

To

The Principal,
Sri Sivasubramaniya Nadar College of Engineering,
Rajiv Gandhi Salai (OMR) Kalavakkam Village,
Kanchipuram District - 603 110.



Sir,

Sub: **Permanent Affiliation** - Granting of Permanent Affiliation for the existing programmes – 2013-14 – Reg.

Ref: 1. Resolution 53.3 of 53rd SCA meeting held on 04.10.2013.
2. Resolution 228.26 of 228th Syndicate held on 28.01.2014.

I am to inform that under the provisions of section 7.6.2 of the Anna University statutes for affiliation, **Permanent Affiliation** for the existing programme(s) is granted for the following B.E. / B.Tech. / B.Arch. / M.E. / M.Tech. / M.B.A / M.C.A programme(s) with the sanctioned intake indicated against each from the academic year 2013-14 at **Sri Sivasubramaniya Nadar College of Engineering**, Rajiv Gandhi Salai (OMR) Kalavakkam Village, Kanchipuram District - 603 110.

Sl. No.	Degree	Programme(s)	Sanctioned intake	Year from which Permanent Affiliation is granted
1	B.E.	Computer Science and Engineering	120	2013-14
2	B.E.	Electrical and Electronics Engineering	120	
3	B.E.	Electronics and Communication Engineering	120	
4	B.Tech.	Information Technology	120	

The above said status of Permanent Affiliation is granted subject to the following conditions:

1. The college should obtain extension of approval by the UGC / AICTE / COA / DGS as applicable for every academic year for the above mentioned programmes with the corresponding sanctioned intake. In the absence of extension of approval from the appropriate authority, the Permanent Affiliation now granted will not be valid.

2. In case of increase in intake granted by the appropriate authority for a permanently affiliated programme, the college should apply to the University for the grant of affiliation for the increased intake and orders of the University should be obtained for increasing the intake of the permanently affiliated programme.
3. The college should continue to fulfill the requirements for the above mentioned programmes as per the norms and standards of the University and the laboratory requirements as per the curricula and syllabi of Anna University, Chennai for these programmes.
4. The college should strictly adhere to and comply with the provisions of Anna University Act / Statutes / Regulations norms and standards / guidelines or any other law time being in force.
5. The permanent affiliation granted may be suspended / withdrawn after adopting the procedures laid down in the Regulations, if the college fails to comply with the provisions made in this behalf or the college has failed to observe / implement any of the conditions of affiliation or the college has conducted in a manner which is prejudicial to the interests of University education and/or students.
6. Notwithstanding the granting of Permanent Affiliation, the university reserves its right to inspect the college to verify the continued fulfillment of the affiliation requirements as prescribed by the University for the programmes concerned.
7. The Permanent Affiliation is granted without prejudice to the right of the University of requiring production of certificate required under Section 37-B of Tamil Nadu Land Reforms (LC) Act 1961 subject to the decision of the Hon'ble High Court of Madras in W.A.No. 3454 / 2002 batch and W.A.No. 3482 / 2002 batch.
8. The Management is directed to submit a duly signed undertaking on a Rs.20/- non-judicial stamp paper to the Registrar, Anna University Chennai, Chennai-600 025, within 15 days from the date of receipt of this letter to the effect that the conditions specified above will be fulfilled.

Yours sincerely



13/21/4/14

REGISTRAR
21/4/14
REGISTRAR
ANNA UNIVERSITY
CHENNAI-600 025

Copy to:

1. The Commissioner of Technical Education, Chennai – 600 025.
2. The Controller of Examinations, Anna University Chennai, Chennai – 600 025.
3. The Director, Student Affairs, Anna University Chennai, Chennai – 600 025.
4. The Director, Academic Courses, Anna University Chennai, Chennai – 600 025.
5. Master File.

To
A.M.Copy to: A.O.
HADB | CSE, EEE, ECE & IT

S. Sathya 30/5/14

NAAC Accreditation Certificate



राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद
विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान
NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL
An Autonomous Institution of the University Grants Commission

प्रो. एच. ए. रंगनाथ
निदेशक

Prof. H.A. Ranganath

Director

FASc, FNASc, FEAI, FNA.,

NAAC/A&AOC/EC-54/69/2011/

January 10, 2011

The Principal

Sri Sivasubramaniya Nadar College of Engineering
Rajiv Gandhi Road
Kalavakkam - 603110
Tamil Nadu

Dear Principal,

Wishing you a Happy and Prosperous New Year - 2011

I am glad to inform you that the outcome of the Assessment and Accreditation exercise of your institution has been processed and approved by the Executive Committee of NAAC and your institution has been *Accredited* for a period of five years with a **CGPA** of **3.13** on a four point scale at **A Grade** valid from 08/01/2011. The provisional certificate of accreditation will be sent to you shortly. However, the original certificate of accreditation with the quality profile will be presented to the heads of accredited institutions during the "NAAC Accreditation Awards Ceremony" to be convened in due course. I am sure the detailed peer team report given to you already by the peer team will enable the institution to initiate further quality enhancement measures.

With best wishes,


Yours sincerely,

(H. A. Ranganath)

पिए ओए बाक्स नं. 1075, नागरभावी, बेंगलूर - 560 072, भारत P.O.Box No. 1075, Nagarbhavi, Bangalore - 560 072, INDIA

दूरभाषा Phone : + 91-80-23210267, 23005112, 114, 115, Fax : +91-80-23210268

ई-मेल : e-mail: director.naac@gmail.com वेबसाइट Website : www.naac.gov.in



राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद
विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान
NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL
An Autonomous Institution of the University Grants Commission

Quality Profile

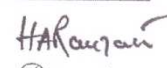
Name of the Institution : Sri Sivasubramaniya Nadar College of Engineering
Place : Kalavakkam, Tamil Nadu


Criteria	Weightage (W _i)	Criterion-Wise Grade Point Averages (C _r GPA)	W _i X C _r GPA
I. Curricular Aspects	050	2.70	135
II. Teaching-Learning and Evaluation	450	3.00	1350
III. Research, Consultancy and Extension	100	3.00	300
IV. Infrastructure and Learning Resources	100	3.65	365
V. Student Support and Progression	100	3.30	330
VI. Governance and Leadership	150	3.10	465
VII. Innovative Practices	050	3.70	185
Total	$\sum_{i=1}^7 W_i = 1000$		$\sum_{i=1}^7 (W_i \times C_r \text{ GPA}) = 3130$

$$\text{Institutional Score} = \frac{\sum_{i=1}^7 (W_i \times C_r \text{ GPA})}{\sum_{i=1}^7 W_i} = \frac{3130}{1000} = \boxed{3.13}$$

Grade = A Descriptor = VERY GOOD

Date : January 08, 2011


 Director



- This certification is valid for a period of Five years with effect from January 08th 2011
- An institutional CGPA on four point scale in the range of 3.01 - 4.00 denotes A grade (Very Good), 2.01 - 3.00 denotes B grade (Good), 1.51 - 2.00 denotes C grade (Satisfactory)
- Scores rounded off to the nearest integer

NBA Accreditation Letters

NATIONAL BOARD OF ACCREDITATION

NBCC Place, East Tower, 4th Floor, Bhisham Pitamah Marg,
Pragati Vihar, New Delhi-110 003
Tel: +91 11 2436 0620, 2436 0654 Telefax: +91 11 2436 0682



F.No.33-124-2010-NBA

Dated: 23-03-2015

To,

The Principal
Sri Sivasubramaniya Nadar College of Engineering (SSN)
Rajiv Gandhi Salai (OMR),
Kalavakkam – 603 110,
Kanchipuram Dist.,
Tamil Nadu

Subject: Accreditation status of programmes applied by Sri Sivasubramaniya Nadar College Of Engineering (SSN), Rajiv Gandhi Salai (OMR), Kalavakkam – 603 110, Kanchipuram Dist., Tamil Nadu

Sir,

This has reference to your application dated 30-11-2013 in Tier-II format seeking accreditation by National Board of Accreditation to Engineering programmes offered by Sri Sivasubramaniya Nadar College Of Engineering (SSN), Rajiv Gandhi Salai (OMR), Kalavakkam – 603 110, Kanchipuram Dist., Tamil Nadu .

2. An Expert Team conducted an on-site evaluation of the programmes during 9th – 11th January, 2015. The reports submitted by the Expert Team were considered by the concerned Committees constituted for the purpose in NBA. The competent authority has approved the following accreditation status to the programmes as given in the table below:

Sl. No.	Name of the Programme (UG)	Basis of Evaluation	Accreditation Status	Period of validity w.e.f. 01.07.2015	Remarks
(1)	(2)	(3)	(4)	(5)	(6)
1.	Electrical and Electronics Engineering	Tier-II Document	Accredited	5 years	Accreditation status granted is valid for the period indicated in col.5 or till the program has the approval of the competent authority, whichever is earlier.
2.	Electronics and Communication Engineering	Tier-II Document	Accredited	5 years	
3.	Computer Science and Engineering	Tier-II Document	Accredited	5 years	
4.	Information Technology	Tier-II Document	Accredited	5 years	
5.	Biomedical Engineering	Tier-II Document	Accredited	5 years	

3. It may be noted that only students who graduate during the validity period of accreditation, will be deemed to have graduated with an NBA accredited degree.

4. The accreditation status awarded to the programmes as indicated in the above table does not imply that the accreditation has been granted to Sri Sivasubramaniya Nadar College Of Engineering (SSN), Rajiv Gandhi Salai (OMR), Kalavakkam – 603 110, Kanchipuram Dist., Tamil Nadu as a whole. As such the institution should nowhere along with its name including on its letter head etc. write that it is accredited by NBA because it is programme accreditation and not institution accreditation. If such an instance comes to NBA's notice, this will be viewed seriously. Complete name of the programme(s) accredited, level of programmes and the period of validity of accreditation, as well as the date from which the accreditation is effective should be mentioned unambiguously whenever and wherever it is required to indicate the status of accreditation by NBA.

6. The accreditation status of the above programmes is subject to change on periodic review, if needed by the NBA. It is desired that the relevant information in respect of accredited programmes as indicated in the table in paragraph 2, appears on the website and information bulletin of the Institute.

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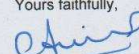
-2-

7. The accreditation status awarded to the programmes as indicated in table in paragraph 2 above is subject to maintenance of the current standards during the period of accreditation. If there are any changes in the status (major changes of faculty strength, organizational structure etc.), the same are required to be communicated to the NBA, with an appropriate explanatory note.

8. Copies of the Comprehensive Report submitted by the Chairman of the Expert Committee along with the detailed report submitted by the Expert team which visited Institute for the programmes evaluated is enclosed for reference and to take necessary action to overcome the shortcomings, if any, pointed out by the Expert Team.

Thanking you,

Yours faithfully,


(Dr. Anil Kumar Nassa)
Member Secretary

Encls: 1. Copy of Report of Chairman of the Visiting Team.
2. Copy of Expert Reports of the Visiting Team.

Copy to:

1. The Secretary,
Department of Technical Education
Government of Tamil Nadu, Chennai - 600 009,
Tamil Nadu
2. The Vice Chancellor
Anna University, Guindy
Chennai - 600 025
Tamil Nadu

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NBCC Place, East Tower, 4th Floor, Bhisham Pitamah Marg,
Pragati Vihar, New Delhi-110 003
Tel: +91 11 2436 0620-22, 2436 0654 Telefax: +91 11 2436 0682
Website: www.nbaind.org



F.No.33-124/2010-NBA

Dated: 28-09-2016

To,

The Principal
Sri Sivasubramaniya Nadar College of Engineering
Rajiv Gandhi Salai (OMR)
Kalavakkam - 603 110
Kancheepuram, Tamil Nadu

Subject: Accreditation status of programmes applied by Sri Sivasubramaniya Nadar College of Engineering, Rajiv Gandhi Salai (OMR), Kalavakkam - 603 110, Kancheepuram, Tamil Nadu.

Sir,

This has reference to your application dated 23-12-2013 in Tier-II format seeking accreditation by National Board of Accreditation to PG Engineering programmes offered by Sri Sivasubramaniya Nadar College of Engineering, Rajiv Gandhi Salai (OMR), Kalavakkam - 603 110, Kancheepuram-601301, Tamil Nadu.

2. An Expert Team conducted on-site evaluation of the programmes during 13th – 15th May, 2016. The report submitted by the Expert Team was considered by the concerned Committees constituted for the purpose in NBA. The competent authority in NBA has approved the following accreditation status to the programmes as given in the table below:

S.No.	Name of the Programme (PG)	Basis of Evaluation	Accreditation Status	Period of validity	Remarks
(1)	(2)	(3)	(4)	(5)	(6)
1.	Power Electronics & Drives	Tier-II Document	Accredited	Academic Years 2016-2017 to 2020-2021 i.e., upto 30-06-2021	Accreditation status granted is valid for the period indicated in Col.5 or till the program has the approval of the competent authority, whichever is earlier.
2.	Applied Electronics		Accredited		
3.	Communication Systems		Accredited		
4.	Computer Science & Engineering		Accredited		

3. It may be noted that only students who graduate during the validity period of accreditation, will be deemed to have graduated with an NBA accredited degree.

4. The accreditation status awarded to the programmes as indicated in the above table does not imply that the accreditation has been granted to Sri Sivasubramaniya Nadar College of Engineering, Rajiv Gandhi Salai (OMR), Kalavakkam - 603 110, Kancheepuram-601301, Tamil Nadu as a whole. **As such, the Institution should nowhere along with its name including on its letter head etc. write that it is accredited by NBA because it is programme accreditation and not Institution accreditation. If such an instance comes to NBA's notice, this will be viewed seriously.** Complete name of the programme(s) accredited, level of programmes and the period of validity of accreditation, as well as the date from which the accreditation is effective should be mentioned unambiguously whenever and wherever it is required to indicate the status of accreditation by NBA.

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5. The accreditation status of the above programmes is subject to change on periodic review, if needed by the NBA. It is desired that the relevant information in respect of accredited programme as indicated in the table in paragraph 2, appears on the website and information bulletin of the Institute.
6. The accreditation status awarded to the programmes as indicated in table in paragraph 2 above is subject to maintenance of the current standards during the period of accreditation. If there are any changes in the status (major changes of faculty strength, organizational structure etc.), the same are required to be communicated to the NBA, with an appropriate explanatory note.
7. Copy of the Report of Chairman of the Visiting Team and Evaluators' Reports in respect of the above programmes are also enclosed.

Yours faithfully,


(Dr. Anil Kumar Nassa)
Member Secretary

- Encls:** 1. Copy of Report of Chairman of the Visiting Team.
2. Copies of Expert Reports of the Visiting Team.

Copy to:

1. The Principal Secretary (Higher Education)
Government of Tamil Nadu,
N.K.M. Building, 6th Floor, Secretariat
Chennai- 600 009
2. The Vice Chancellor
Anna University, Guindy
Chennai- 600025
3. The Commissioner
Directorate of Technical Education
Sardar Patel Road, Guindy,
Chennai-600 025
Tamil Nadu
4. Master Accreditation Folder of the State