

# **Sri Sivasubramaniya Nadar College of Engineering**

**Rajiv Gandhi Salai (OMR)**

**Kalavakkam – 603 110**

**Kanchipuram Dist.**



## **SELF STUDY REPORT**

**(For Re-accreditation - Cycle II)**

### **VOLUME – II**

## **Evaluative Report of the Departments**

**Submitted to**



**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**

**P.O. Box No. 1075**

**Nagarbhavi**

**Bangalore – 560072**

***June 2017***

**Sri Sivasubramaniya Nadar College of Engineering**  
**Kalavakkam – 603110**

**EVALUATIVE REPORT OF THE DEPARTMENTS**

<b>Sl. No.</b>	<b>Name of the Department</b>	<b>Page No.</b>
1	Electrical and Electronics Engineering	2
2	Electronics and Communication Engineering	22
3	Computer Science and Engineering	48
4	Information Technology	76
5	Chemical Engineering	99
6	Biomedical Engineering	118
7	Mechanical Engineering	139
8	Civil Engineering	165
9	Science & Humanities	177
10	Management Studies	200

## EVALUATIVE REPORT OF THE DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

1. Name of the department : **Electrical and Electronics Engineering**
2. Year of Establishment : **1996**
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D.)

**UG: B. E. - Electrical and Electronics Engineering,**

**PG: M.E. - Power Electronics and Drives**

**M.S. (By Research) and Ph.D.**

4. Names of Interdisciplinary courses and the departments/units involved

**There is no inter departmental courses available**

5. Annual/ semester/choice based credit system (programme wise)

**All Programmes / Courses (UG/PG) offered are Semester based.**

6. Participation of the department in the courses offered by other departments

Sl. No.	Subject Code	Subject / Lab	Other Department Courses Shared With EEE Department
1	EY 7201	Energy Conservation in Electrical Systems	M.E. (Energy Engineering)
2	GE 6162	Engineering Practices Laboratory	B.E. (All I Semester Students)
3	EE 6351	Electrical Drives and Controls	B.E. (III Semester Chemical)
4	EE 6365	Electrical Engineering Laboratory	B.E. (III Semester Mech.)
5	EE 6352	Electrical Engineering and Instrumentation	B.E. (III Semester ECE)
6	EE 6351	Electrical Drives and Controls	B.E. (III Semester Mech.)
7	BM 6402	Basics of Electrical Engineering	B.E. (IV Semester BME)
8	EC 6405	Control Systems Engineering	B.E. (IV Sem ECE)
9	GE 6252	Basic Electrical and Electronics Engineering	B.E. (II Sem Chem)
10	EE 6461	Electrical Engineering and Control Systems Laboratory	B.E. (IV Sem ECE)
11	GE 6252	Basic Electrical and Electronics Engineering	B.E. (II Sem Civil)
12	GE 6252	Basic Electrical and Electronics Engineering	B.E. (II Sem Mech)
13	GE 6264	Basic Electrical and Electronics Laboratory	B.E. (II Sem Chem)

7. Courses in collaboration with other universities, industries, foreign institutions, etc.  
**Nil**

8. Details of courses/programmes discontinued (if any) with reasons

Nil

9. Number of teaching posts

Programmes	Professor		Associate Professors		Assistant Professor	
	Sanctioned	Filled	Sanctioned	Filled	Sanctioned	Filled
UG – B.E. EEE	2	3	5	13	17	11
PG – M.E. PED	1	2	1	1	1	-

10. Faculty profile with name, qualification, designation, specialization (D.Sc./D.Litt./Ph.D. / M. Phil. etc.)

Sl. No.	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
1	Dr. Kamaraj V	Ph.D.	Professor & Head	Power Electronics and Drives	28	10
2	Dr. Ranganath Muthu	Ph.D.	Professor	Control System, Intelligent Control, Renewable Energy	27	6
3	Dr. Aravindan A.N.	Ph.D.	Professor	Power Electronics and Drives, Power Quality	25	Nil
4	Dr. Rajini V.	Ph.D.	Professor	H.V. Energy, Power Electronics and Drives	25	15
5	Dr. Pandiarajan N.	Ph.D.	Professor	Power Systems, Photovoltaic power systems	40	Nil
6	Dr. Rengaraj R	Ph.D.	Asso. Prof.	Power Systems	13	7
7	Dr. Seyezhai R.	Ph.D.	Asso. Prof.	Power Electronics, Renewable Energy	18	13
8	Dr. Ramaprabha R.	Ph.D.	Asso. Prof.	Solar PV systems, Power Electronics	17	12
9	Dr. Balaji M.	Ph.D.,	Asso. Prof.	Power Electronics and Drives	13	6
10	Dr. Mrunal Desh Pande	Ph.D.	Asso. Prof.	Controls and Power Electronics	22	Nil
11	Dr. Muthu Selvan N.B.	Ph.D.	Asso. Prof.	Power systems Optimization	13	2
12	Dr. Senthil Kumaran M	Ph.D.	Asso. Prof.	Applied Electronics	16	4
13	Dr. Murugesan K.	Ph.D.	Asso. Prof.	Power Electronics and Drives	21	Nil
14	Dr. Shajith Ali U.	Ph.D.	Asso. Prof.	Power Electronics and Drives	15	Nil
15	Dr. Devesh Raj M.	Ph.D.,	Asso. Prof.	Power system Engg.	8	Nil
16	Dr. Deepalaxmi R.	Ph.D.,	Asso. Prof.	Power Electronics, High Voltage	16	2

Sl. No.	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
17	Dr. S. Tamil Selvi	Ph.D.,	Asso. Prof.	Power system Engg.	8	Nil
18	Dr. K. Usha	Ph.D.,	Asso. Prof.	High Voltage	10	Nil
19	Dr. PandiKumar M	Ph.D.,	Asso. Prof.	Power Electronics and Drives	14	Nil
20	Mr. Balasubramanian A.	M.E.	AP	Power Electronics and Drives, Control Engg.	21	Nil
21	Mr. Leo R.	M.E.	AP	Multiagent system	23	Nil
22	Ms. Alagu Dheeraj	M.E.	AP	Power Electronics & Elect. Machines	16	Nil
23	Ms. Krishnaveni S.	M.E.	AP	Power Electronics & High Voltage	15	Nil
24	Mr. Saravanan P.	M.E.	AP	Embedded Systems, VLSI design.	18	Nil
25	Ms. Anitha Roseline J.	M.E.	AP	Power systems and Power Electronics	15	Nil
26	Ms. Malathy S.	M.E.	AP	Control and Instrumentation	13	Nil
27	Mr. Thiyagarajan V	M.E.	AP	Power System Engg	8	Nil
28	Ms. Umarani D	M.E.	AP	Power Electronics and Drives	4	Nil
29	Mr. Nagarajan V.S.	M.E.	AP	Power Electronics and Drives	4	Nil
30	Mr. G. R. Venkatakrishnan	M.E.	AP	Power System Engg	1	Nil

11. List of senior visiting faculty

Sl. No.	Name	Designation	Purpose
1	Shri. S. Madivannan	Former "Scientist G" CVRDE (DRDO), Ministry of Defence, Govt. of India,	Review Project for the II year M.E.PED students Deliver Expert lectures and conduct skill development programs

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: **Nil**

13. Student - Teacher Ratio (programme wise)

Sl. No.	Programme	No of Students	No. of Faculty*	STR
1	UG -EEE	360	24	1:15
2	PG -M.E. PED	36	3	1:12

\* 3 Faculty for I year subjects

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

Sl. No.	Staff Category	Sanctioned	Filled
1	Technical	7	7
2	Administrative	1	2

15. Qualifications of teaching faculty with D.Sc./ D.Litt./ Ph.D./ M.Phil. / PG.

Sl. No.	Number of Faculty with Qualification			
	D.Sc. / D. Litt.	Ph.D.	M. Phil.	PG
1	-	19		11

16. Number of faculty with ongoing projects from (a) National (b) International funding agencies and grants received

Sl. No.	Nature of Project	Number of Faculty
1	National	5
2	International	1

17. Departmental projects funded by DST/MNRE/AICTE, etc. and total grants received

Sl. No.	Name of the Faculty	Funding Agency	Title of Project	Amount in Rs. Lakh	Date of Approval	Status
1	Dr. V. Rajini	AICTE	Modernization of High Voltage lab as a unified power Lab	19.54	2014	Completed

Sl. No.	Name of the Faculty	Funding Agency	Title of Project	Amount in Rs. Lakh	Date of Approval	Status
2	Dr. V. Rajini	MNRE	A novel fused converter for SPV- wind based hybrid systems to power rural telephony	34	2014	Ongoing
3	Dr. Ranganath Muthu Dr. M. Senthil Kumaran	C-WET	Study and Control of Grid Weak Connected Matrix Converter based DFIG System	7.75	2011-15	Completed
4	Dr. Ramaprabha Ms. S.Malathy	SSNCE	Design and development of efficient Building integrated PV system under partial shaded conditions	3.5	2013-16	Completed
5	Dr. Ramaprabha	DST – WoS A	Design and Development of Flywheel based Power Conditioning System for a Renewable energy fed Micro grid	21.45	2014-17	Ongoing
6	Dr. R. Seyezhai	AICTE	Development of Cascaded Z source Multilevel Inverter for Photovoltaic Applications	24.5	2013-16	Completed
7	Dr. R Seyezhai	SSN Trust	Solar Electric Vehicle using BLDC Drive	4.5	2013-16	Completed
8	Dr. M. Balaji	SERB	Design and Development of Hybrid Switched Reluctance Motor Drive	22.9	2015	Ongoing
9	Mr. P.Saravanan	DST-SERB	Design and Development of Axial Flux Switched Reluctance Motor based Battery operated Vehicle	45	2015	Ongoing
10	Mr. V.Thiyagarajan	Horizon Solutions Ltd	Smart Street Lighting System	1.0	2015	Ongoing
11	Dr.V.Rajini Ms. R Deepalaxmi	SSN Trust	Electromechanical characterization of SiR-EPDM blends	2.63	2012	Completed
12	Dr. Ranganath Muthu & Dr. K. Murugesan	SSN Trust	Design of D-STATCOM for Reactive Power Compensation for Wind Turbine Systems	3.5	2009-12	Completed



Sl. No.	Name of the Faculty	Funding Agency	Title of Project	Amount in Rs. Lakh	Date of Approval	Status
13	Dr. B. L. Mathur & Dr. R. Ramaprabha	SSN Trust	Efficient Energy Utilization of Solar PV Array under Partial Shadow	9.19	2009-12	Completed
14	Dr. V. Kamaraj Mr. V. S. Nagarajan	SSN Trust	Design and development of reluctance drives	3.25	2013-16	Completed
15	Ms. Alagu Dheeraj Dr. V. Rajini	SSN Trust	Isolated Active Clamp Forward DC-DC Converter for Microprocessor	3.7	2016-17	Ongoing
16	Ms. S. Krishnaveni Dr. V. Rajini	SSN Trust	High voltage pulse generator based on high gain DC-DC converter for PEF food processing	2.13	2016-18	Ongoing
17	Dr. R. Seyezhai Ms. D. Umarani	SSN Trust	High efficiency PV module integrated converter based on cascaded quasi-Z-source inverter	4.5	2016-19	Ongoing
18	Dr. Mrunal Deshpande	SSN Trust	Design and development of switched reluctance motor drive with minimum torque ripple	3.75	2016-18	Ongoing

18. Research Centre /facility recognized by the University:

**Department of EEE has been recognized as Research Centre by Anna University since 2006**

19. Publications

Sl. No.	Faculty	Designation	Conf. Papers	Jl. Papers	Citation Indices #				
					Citation Index	SNJP	SJR	Impact Factor	h-index
1	Dr. Kamaraj V	Prof. & Head	32	32	392	-	-	-	11
2	Dr. Ranganath Muthu	Prof.	36	43	384	-	-	-	7
3	Dr. A.N. Arvindan	Prof.	8		109	-	-	3	6
4	Dr. V. Rajini	Prof.	74	85	600	-	-	12	14
5	Dr. Pandiarajan N.	Prof.	4	3	235	-	-	3	4
6	Dr. Rengaraj R	Prof.	14	19	260	-	-	5.746	5

7	Dr.R.Seyezhai	Prof.	149	164	591	-	-		12
8	Dr. Ramaprabha R.	Asso. Prof.	119	79	781	-	-	19	16
9	Dr. Balaji M.	Asso. Prof.	40	17	129	-	-	8	6
10	Dr. Mrunal Desh Pande	Asso. Prof.	11	13	-	-	-	4	2
11	Dr. Muthu Selvan N.B.	Asso. Prof.	7	12	44	-	-	1	5
12	Dr. Senthil Kumaran M	Asso. Prof.	7	20	5	-	-	1	2
13	Dr. Murugesan K.	Asso. Prof.	5	6	26	-	-	-	2
14	Dr. Shajith Ali U	Asso. Prof.	27	16	112	-	-	4	7
15	Dr. Devesh Raj M.	Asso. Prof.	4	5	7	-	-	-	2
16	Dr. Deepalaxmi R.	Asso. Prof.	5	9	27	-	-	-	3
17	Dr. S. Tamil Selvi	Asso. Prof.	3	6	60	-	-	1	2
18	Dr. K. Usha	Asso. Prof.	5	5	-	-	-	-	-
19	Dr. M. PandiKumar	Asso. Prof	-	2	-	-	-	-	-
20	Mr. A. Balasubramanian	AP	3	-	-	-	-	-	-
21	Mr. Leo R.	AP	8	7	14	-	-	-	3
22	Ms. Alagu Dheeraj	AP	2	4	1	-	-	2	1
23	Ms. Krishnaveni S	AP	7	5	1	-	-	-	1
24	Mr. Saravanan P.	AP	9	8	4	-	-	-	1
25	Ms. Anitha Roseline J	AP	6	4	1	-	-	-	1
26	Ms. Malathy S.	AP	16	10	21	-	-	-	3
27	Mr. V. Thiyagarajan	AP	11	5		-	-	-	-
28	Ms. D. Umarani	AP	8	9		-	-	-	-
29	Mr. V. S. Nagarajan	AP	10	3	24	-	-	0.851	2
30	Mr. G. R. Venkatakrishnan	AP	5	7	1	-	-	-	1

## 20. Areas of consultancy and income generated:

Sl. No.	Year	Faculty	Organization to which consultancy is offered	Area of consultancy	Amount earned (Rs)
1	2015	Dr.R.Rengaraj	Siechem Technologies Pvt. Ltd, Pondicherry	Performance improvement of high speed extrusion and rewinding lines for wires and cables	4,00,000/-
2	2011	Dr.R.Arumugam	Lucas-TVS	Weekend training programme on "Finite element analysis on electromagnetic design"	90,000/-

## 21. Faculty as members in

a) National committees b) International Committees c) Editorial Board

Sl. No.	Faculty	Committee Designation	Period
1	Dr. Kamaraj V	ISTE Chairman	2006
2	Dr. Ranganath Muthu	Past President ISA	
3	Dr. Rajini V.	ISTE Life Member; IEEE Member Reviewer in IEEE Trans on DEIS IET TPG Elsevier	2005 2008
4	Dr. Rengaraj R	ISTE	Life Member
5	Dr. Seyezhai R.	IEEE Member PELS member IEE Member, ISTE Member	2014 Life Member
6	Dr. Ramaprabha R.	ISTE Life Member Reviewer Member - IEEE - PE, IET	2005 from Life Member
7	Dr. Mrunal Deshpande	IEEE Member	2013
8	Dr. Muthu Selvan N.B.	IEEE Member, IEE Member, ISTE Member	2015,2013 Life time
9	Dr. Murugesan K	ISTE Member	Life member
10	Dr. Shajith Ali U	ISTE Member, IEEE Member Reviewer in IEEE Trans. on Power Electronics	Life Member 2015
11	Dr. Deepalaxmi R.	IEEE Member	2010-2013
12	Mr. Balasubramanian A.	ISTE Member, IETE Member	Life member
13	Ms. Alagu Dheeraj	IEEE Member, ISTE Member	Life member
14	Ms. Krishnaveni S.	ISTE Member, IEE Member	Life member
15	Ms. Anitha Roseline J	IEEE Member, ISTE Member	Life member
16	Ms. Malathy S.	IEEE Member, ISTE Member	Life member
17	Mr. V. Thiagarajan	IEEE Member	2014
18	Ms. D. Umarani	IEEE Member	2015
19	Mr. V. S. Nagarajan	ISTE Member	Life member

## 22. Student projects

- a) Percentage of students who have done in-house projects including inter departmental/programme 75%
- b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies 25%

## 23. Awards / Recognitions received by faculty and students

## Awards by faculty

Sl. No.	Name of the doctoral / post doctoral Fellow	Awards /recognition received	
		National	International
1	Dr. V. Kamaraj	• ISTE Best Engineering College Teacher Award 2013	

		<ul style="list-style-type: none"> <li>IET CLN Diamond Salute Award, 2014</li> </ul>	
2	Dr. V. Rajini	CTS Best Faculty Award 2011	
3	Dr. R. Seyezhai	<ul style="list-style-type: none"> <li>CTS Best Faculty Award 2013</li> <li>"Outstanding Faculty" organized by Venus International foundation Center for Advanced Research and Design on 9th July 2016</li> <li>"Best Supervisors Award" organized by ISSRD 2017</li> </ul>	Best Academic Researcher award - 2015 ASDF-2015 Association of Scientist Developers and Faculty TECNO FORUM Group
4	Dr. R. Ramaprabha	<ul style="list-style-type: none"> <li>IET CLN – Sir C.V.Raman Research award 2014</li> <li>"Outstanding Researcher award" in Aufau International Awards, Dec 2016</li> <li>"Outstanding scientist award" for her contribution in the field of Solar Photovoltaic Systems in Annual Research Meet (ARM) 2016 by Venus International Foundation</li> <li>"Best Women Researcher Award" "SMART SUMMIT – 2016" (Science, Medicine, Agriculture, Research and Technology) organized by the PEARL Foundation for Educational Excellence</li> <li>"Excellence in Reviewing Papers" as an appreciation for the contribution in reviewing papers from International Journal of Power Electronics</li> </ul>	

5	Dr. M.Balaji	“Young Engineer Award” organized by the PEARL Foundation for Educational Excellence (Reg. No. 101/2015 under Indian trust act) on 10.12.2016	
6	Dr. N.B. MuthuSelvan	Chartered Engineer from The Institution of Engineers (India) on 02.02.2017	

**Awards by students**

Sl. No.	Name of the doctoral / post doctoral Fellow	Awards /recognition received	
		National	International
1	Final and Third Year UG Students	Limca Book of Records - Demonstration of Line following robots, June 2012.	
2	Masha Nazeem	<ul style="list-style-type: none"> <li>• Best Young Achiever Award by Noorul Islam University, 2014.</li> <li>• Awarded by department of Scientific and Industrial research, Government of India, 2013.</li> <li>• President Award in 2012</li> </ul>	
3	Kamal Prakash, Karthikeyan & Karthik Singaram	International award in robotic competition at IIT Bombay, Tech Fest, 2012-13.	
4	S. Ajay, S. Maneesha, A. Arunkumar and G. Deepika	Texas Instruments, TI India Educators' Conference 2013, Bangalore	
5	T.B.Mervin	Third prize for Robotics, SHAASTRA 2011, IIT Madras.	
6	Aprajith and Badrinarayanan	Second Prize in Traffic Rush, NIT Trichy.	
7	R. Karthik Singaram	<ul style="list-style-type: none"> <li>• First prize in International Techno Management Festival, NIT, Trichy</li> <li>• First place in Annual National Level Engineering Tech Fest,</li> </ul>	

		Amrita School of Engineering, Coimbatore 2012.	
8	Aishwarya	Won the 1st Prize of Two Lakh rupees and Pin of Excellence for her project entitled, "Velocity Control of Linear Switched Reluctance Motor" Sept 2015	

## 24. List of eminent academicians and scientists / visitors to the department

Sl. No.	Name / Designation and Affiliation	Name of the Event	Organized Under	Date
1	Dr. Akhtar Kalam, Victoria University, Australia	ICEES 2014 International Conference	IEEE Sponsored	7/1/2014
2	Dr. Jayashri Ravishankar, University of New South Wales, UNSW Sydney, Australia	ICEES 2014 International Conference	IEEE Sponsored	7/1/2014
3	Dr. Sebastien Desharnais, DELT'A – RNTBCI Manager, Renault Nissan Technical & Business Centre, India	ICEES 2014 International Conference	IEEE Sponsored	8/1/2014
4	Dr. Prahlad Vadakkepat, National University of Singapore, Singapore	ICEES 2014 International Conference	IEEE Sponsored	8/1/2014
5	Dr. Bala Venkatesh, Professor, Academic Director, Centre for Urban Energy, Ryerson University, Canada	ICEES 2014 International Conference	IEEE Sponsored	9/1/2014
6	Dr. S. Paramasivam, Senior Manager- Power Electronics and Controls, Danfoss Industries Pvt. Ltd	ICEES 2014 International Conference, Danfoss Innovator Award	IEEE Sponsored	9/1/2014 & 21/7/2015
7	Dr. Krishna Vasudevan, IIT Madras, India	ICEES2014 International Conference	IEEE Sponsored	9/1/2014
8	Mr. Atul Chouthai, UET Chairman, Danfoss Industries Pvt. Ltd	To give away Danfoss Innovator Award	Danfoss Industries Pvt. Ltd	21/7/2015
9	Prof. Mr. S. Madivaanan, Scientist 'G', Additional Director (Ret), CVRDE/DRDO, Avadi	Guest Lecture for M.E.PED Student	Variable Speed drive	20/08/2016
10	Dr. Prahalad Vadakepat, National University of Singapore, Singapore	ICEES2016 International Conference	IEEE Sponsored	17/03/2016

11	Dr. Jayashri Ravishankar, University of New South Wales, Sydney, Australia	ICEES2016 International Conference	IEEE Sponsored	17/03/2016
12	Dr. Mohan Lal Kolhe University of Agder, Norway	ICEES2016 International Conference	IEEE Sponsored	18/03/2016
13	Dr. R. Velraj Anna University, Chennai	ICEES2016 International Conference	IEEE Sponsored	18/03/2016
13	Mr.Alexandar Raja, Architect, Robert Bosch Business and Engineering Solutions Pvt Limited	ICEES2016 International Conference	IEEE Sponsored	18/03/2016
14	Dr. Paramasivam Shanmugam Danfoss India, Chennai	ICEES2016 International Conference	IEEE Sponsored	19/03/2016
15	Dr. P. Somasundaram Anna University, Chennai	ICEES2016 International Conference	IEEE Sponsored	19/03/2016
16	Dr. Jayashri Ravishankar Senior Lecturer University of New South Wales, Sydney, Australia	ICPEDC2017 International Conference	IEEE Sponsored	16/03/2017
17	Dr Naayagi Ramasamy Senior Lecturer School of Electrical and Electronic Engineering Newcastle University International Singapore	ICPEDC2017 International Conference	IEEE Sponsored	17/03/2017
18	Dr.Paramasivam Shanmugam Senior Manager, R&D-Power Electronics and Controls- IDC Danfoss Industries Pvt. Ltd.	ICPEDC2017 International Conference	IEEE Sponsored	18/03/2017
19	Dr. Prahlad Vadakkepat Associate Professor National University of Singapore Singapore	ICPEDC2017 International Conference	IEEE Sponsored	16/03/2017
20	Dr.Mahesh Kumar, Professor, IIT Madras	ICPEDC2017 International Conference	IEEE Sponsored	17/03/2017

25. Seminars/ Conferences/Workshops organized & the source of funding

a) National b) International

#### Workshops Organized

Year (Y)	Organized by	Date/ Duration	Title of the Workshop	Funding Agency/ Organization
2011-12	Dr. R.	Mar. 01-02,	National level Workshop on	ISTE Sponsored

	Ramaprabha	2012	Simulation Software for Electrical Systems	
2012-13	Dr. R. Ramaprabha	May 03-05, 2012	National Level Workshop on Solar Photovoltaic Systems	SSN Trust
	Dr. R. Seyezhai	Nov 2-3, 2012	National Level Workshop on Feedback Controllers	SSN Trust
	Dr. Ranganath Muthu	Sept. 14-15, 2012	National Workshop on Renewable Electrical Energy Systems	SSN Trust
	Dr. Ranganath Muthu	Mar. 22, 2013	Control of Power Converters Using Matlab Xilinx Interface	SSN Trust
	Dr. Ranganath Muthu	May 6-8, 2013	Workshop on Renewable Energy Systems	CSIR
2013-14	Dr. Ranganath Muthu	September 20-21, 2013	Advanced Power Electronic Interfaces for Distributed Energy	SSN Trust
	Mr.P.Saravanan Mr.U.Shajith Ali	March 14,15, 2014	Electro Magnetic Design and Analysis of Electric machines	SSN Trust
2014-2015	Dr. Ranganath Muthu	July 18-19, 2014	National Level Workshop Power Conversion For Smart Grids	SSN Trust
	Dr. Ashwin Kumar Sahoo	13-15 November 2014	Smart Grid Solar PV System Design on workshop	SSN Trust & Steinbeis Solar Research Centre
	Dr.R.Rengaraj	17,18, Dec., 2014	Energy Management System in Micro grids	SSN Trust
	Dr.R.Seyezhai	5,6, Dec., 2014	Nano Materials for Solar Energy Conversion	SSN Trust
2015-2016	Dr.R.Seyezhai Dr. R. Ramaprabha Dr.M.Balaji Mrs.Malathy S.	30 & 31 July 2015	National Workshop on Simulation Software for Power Electronics	SSN Trust
	Dr. R. Ramaprabha Mr.Gadapelli Sai Mr.Krishna Dillep	29 August 2015	Workshop on MATLAB	SSN Trust
2016-2017	Dr. N B. Muthu Selvan Dr. M .Devesh Raj	30, 31- Jan - 2017	National Workshop on "Power System Analysis using Advanced Simulation Softwares".	SSN Trust
	Dr. Ranganath Muthu Dr. M. Senthil Kumaran	March 3. 2017	National Workshop on Control And Automation	IEEE Control System Society SSN Trust
	Dr. V. Kamaraj, Dr. R. Seyezhai, Dr. R.	March 30- 31, 2017	Hands-on Workshop on Power Electronics & Drives	SSN Trust



	Ramaprabha, Dr. M. Balaji & Ms. S. Malathy			
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**Conferences organized**

Year	Organized by	Date/ Duration	Title of the Conference	Funding Agency/ Organization
2010-11	Dr. Rajini	Apr. 4-6, 2010	Power system power Electronics and Drives	SSN Trust
	Dr. R. Arumugam	Jan. 3, 2011	First International Conference of Electrical Energy Systems (ICEES 2011)	SSN Trust
2011-12	Dr. Ranganath Muthu & Dr. R. Ramaprabha	Mar. 22-23, 2012	Second National Conference on Power Electronics and Renewable Energy Systems (PEARES-2012)	CSIR, New Delhi
2012-13	Dr. Rajini Dr. Ashwin Kumar Sahoo,	Mar. 1-3, 2013	Power system Power Electronics and Drives	SSN Trust, CSIR
2013-14	Dr. V. Rajini Dr. R. Seyezhai Dr. R. Ramaprabha	Jan 7-9, 2014	Second International Conference of Electrical Energy Systems (ICEES 2014)	SSN Trust
	Dr. R. Rengaraj Dr. M. Balaji Dr. N. B. Muthuselvan Dr. M. Devesh Raj	April 10-11, 2014	First National Conference of Recent Trends In Power And Energy Engineering (RTPEE) 2014	SSN Trust
2015-16	Dr. R. Rengaraj Dr. M. Balaji Dr. N. B. Muthuselvan	March 16-17, 2016	Third International Conference of Electrical Energy Systems (ICEES 2014)	SSN Trust
2016-2017	Dr. Mrunal Deshpande Dr M Senthil kumaram Dr K Murugesan	March 16-18, 2017	International Conference on Power and Embedded drive Control (ICPEDC 2017)	SSN Trust

**FDP Organized**

Year	Date/Duration	Title of the FDP	Funding Agency/ Organization
2011-2012	Nov. 30 - Dec. 6, 2011	FACTS	Anna University
2012-2013	Nov. 28 - Dec. 4, 2012	HVDC Transmission	Anna University

2013-2014	June 11-18, 2013	Applied Soft Computing /Intelligent Control	Anna University
2014-2015	June 18-25, 2014	Digital Signal Processing	Anna University
2015-2016	Jan. 18 -25, 2016	Advanced Control Systems	Anna University
2016-2017	Dec. 12- 19, 2016	EE 6602 - Embedded Systems	Anna University

26. Student profile programme/course wise:

#### B.E. Electrical and Electronics

Name of the Course/programme	Applications received for Mgmt. Quota	Mgmt. Quota	Selected (Mgmt +SWS+LE)	Enrolled		Pass percentage
				*M	*F	
2016-17	4500	42	130	79	51	-
2015-16	4140	42	139	87	52	-
2014-15	3450	42	145	92	53	-
2013-14	3360	42	143	100	43	-
2012-13	3640	42	148	86	42	89.12%

#### M.E. Power Electronics and Drives

Name of the Course/programme	Applications received (Mgmt. Quota)	Mgmt. Quota	Selected (Mgmt +SWS+LE)	Enrolled		Pass percentage
				*M	*F	
2016-17	82	0	12	-	12	-
2015-16	21	6	18	8	10	-
2014-15	35	6	17	8	9	93.75%

\*M = Male \*F = Female

27. Diversity of Students

#### B.E. Electrical and Electronics

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
2016-17	93.1%	6.9%	-
2015-16	96.9%	3.1%	-
2014-15	96.5%	3.5%	-
2013-14	95.8%	4.2%	-
2012-13	97.9%	2.1%	-
2011-12	95.9%	4.1%	-

#### M.E. Power Electronics and Drives

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
2016-17	91.7%	8.3%	-
2015-16	100%	-	-
2014-15	100%	-	-

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Sl. No.	Year of Passing	No. of students who have cleared	
		GATE	Civil/ Defense services
1	2016-2017	3	-
2	2015-2016	1	-
3	2014-2015	4	-
4	2013-2014	3	1
5	2012-2013	7	-
5	2011-2012	2	1

29. Student progression

Student progression	Against % enrolled					
	2011- 12	2012-13	2013-14	2014-15	2015-16	2016-17
UG to PG	22.08	17.56	12.31	9.66	12.24	-
PG to M.Phil.	NA	NA	NA	NA	NA	-
PG to Ph.D.	-	2	-	-	-	-
Ph.D. to Post-Doctoral	Nil	Nil	Nil	Nil	Nil	-
<b>Employed</b>						
Campus selection	84.73	75.38	68.28	87.5	70.77	83.5
Other than campus recruitment	-	-	-	-	-	-
Entrepreneurship/Self-employment	-	-	1	-	1	-

30. Details of Infrastructural facilities

a) Library

Year	Number of New Volumes Added	Total number of Books
2011-12	210	1439
2012-13	88	1649
2013-14	112	1737
2014-15	69	1849
2015-16	119	1968
2016-17	60	2028

b) Internet facilities for Staff & Students

310 Mbps internet connection is given to all faculty, students and laboratories.

c) Class rooms with ICT facility: 8 Class Rooms & 1 Seminar Hall

ICT facilities such as lap top, screen, LCD available in all class rooms & seminar hall

## d) Laboratory

Sl. No.	Laboratory	Space/No. of Students	Total cost in Lakh
1	Electrical Work shop	241 sq. m. /38	4.65
2	Electronic Devices and circuits Lab	242 sq. m. /38	8.35
3	Measurements Lab	241 sq. m. /38	7.67
4	Electrical Machines Lab-I & II	354 sq. m. /38	36.49
5	Control Systems Lab	242 sq. m. /38	4.24
6	LIC Lab	239 sq. m. /38	5.90
7	Microprocessor and Micro controller	237 sq. m. /38	10.94
8	Power Electronics Lab	237 sq. m. /38	12.08
9	Simulation Lab (UG)	237 sq. m. /51	37.72
10	Simulation Lab (PG)	237 sq. m. /25	11.64
11	Advanced Power Electronics lab	241 sq. m. /18	17.06

31. Number of students receiving financial assistance from college, university, Government or other agencies

**B.E. - Electrical and Electronics**

Agency	Number of students provided with financial assistance in Years					
	2016-2017	2015-2016	2014-15	2013-14	2012-13	2011-12
By SSN Trust	49	70	64	71	71	81
By Government	65	72	60	63	35	26

**M.E. - Power Electronics and Drives**

Agency	Number of students provided with financial assistance in Years				
	2016-2017	2015-2016	2014-15	2013-14	2012-13
By SSN Trust	-	-	4	2	8
By Government	2	4	4	5	4

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts:

Sl. No.	Date	Name of the enrichment Programme	Name of expert
1	27.09.12	Seminar On: Research Methodologists	Dr. P.S. Kannan, Former Dean Thiyagarajar College of Engineering
2	17.8.2013	Seminar On: The Role of Basic Sciences and Humanities in IITs and Engineering Colleges	Dr.T.M. Srinivasan Former Professor IIT Kanpur
3	12.11.2013	Seminar On: Environmental Issues on R&D	Dr.Ganapthy Venkatasubramanina Professor Anna University

4	6.1.2014	Special Lecture: Experience with the Introduction of Problem Based Learning Curriculum to the Bachelor of Engineering Degree Courses	Dr.Akthar Kalam, Professor Victoria University Australia
5	20.09.2014	Special Lecture: Research Opportunities in DRDO	Shri. S. Madivaanan, former Scientist G, CVRDE (DRDO), Ministry of Defence, Govt. of India, Avadi
6	6.10.2014	IEEE Special Lecture: Energy Conservation Techniques for Induction Motor Drives	Mr.GS. Ayyappan Scientist, Central Scientific Instruments Organization, CSIR Madras Complex, Taramani, Chennai

### 33. Teaching methods adopted to improve student learning

Computer assisted E-learning is practiced for teaching, which enables to cover the syllabus in time, the virtual models can be demonstrated and animations of processes which are difficult to explain with black-board and chalk. Assignments on current trends for learning of latest techniques and effective understanding of theory are given to the students.

Industrial visits and educational tours are arranged once in a year to help the students in visualizing the reality. Students are encouraged to undergo in-plant training and internships in research labs during their semester vacations. Personality development training programmes are conducted in third and final year of study so as to equip them for placement. Guidance is given for competitive exams such as GATE, GRE, etc.

### 34. Participation in Institutional Social Responsibility (ISR) and Extension activities

The college has two schemes / society to take care of the social activities

- National Student Service Scheme (NSS)
- Youth Red Cross Society (YRC)

### 35. SWOC analysis of the department and Future plans

#### STRENGTHS

- Good Faculty / Student ratio
- Established process to select and retain qualified faculty
- Recognized Research centre which aids in high quality research output
- Merit based admissions
- State of the art infrastructure and computing facilities
- Value added laboratories and technology-enabled classrooms
- MOUs with reputed industries and organizations provide opportunities for research collaboration
- Good number of projects from SSN Trust and external agencies like DST, AICTE, MNRE and C-WET

#### WEAKNESSES

- Being an affiliated institute modification of curriculum and regulations are restricted
- More opportunities for consultancy projects need to be explored

**OPPORTUNITIES**

- Commercialization of the intellectual property generated through research
- Building linkages with foreign universities on the strength of the high number of alumni studying at reputed foreign universities

**CHALLENGES**

- To generate interest among the industry towards the consultancy offerings by faculty
- To offer interdisciplinary courses under the ambit of university curriculum
- To refresh the curriculum at greater frequency

**FUTURE PLANS**

- Respond to changing industry needs by providing suitable updated curriculum
- To offer additional P.G. programmes in Power Systems, Embedded Systems
- Autonomy/University status to design curriculum and syllabus

## EVALUATIVE REPORT OF THE DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

1. **Name of the department:** Electronics and Communication Engineering (ECE)
2. **Year of Establishment:** 1996
3. **Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)**

UG: Bachelor of Engineering in Electronics and Communication Engineering  
 PG: Master of Engineering in Applied Electronics (M.E. (AE))  
 Master of Engineering in Communication Systems (M.E. (CS))  
 Master of Engineering in VLSI Design (M.E. (VLSI))  
 Ph.D. / M.S: By Research

4. **Names of Interdisciplinary courses and the departments/units involved:** Nil
5. **Annual /semester / choice based credit system (programme wise):**  
All programmes by semester system only.

### 6. Participation of the department in the courses offered by other departments

Sl. No.	Departments	Programmes	Semester	Title of the Course
1	Dept. of EEE	B.E.(EEE)	Even	EC6651: Communication Engineering
2	Dept. of CSE	B.E.(CSE)	Odd	CS6304: Analog and Digital Communication
			Even	IT6502: Digital Signal Processing
3	Dept. of IT	B. Tech. (IT)	Odd	CS6304: Analog and Digital Communication
			Odd	IT6313: Digital Communication Lab

7. **Courses in collaboration with other universities, industries, foreign institutions, etc.** Nil
8. **Details of courses/programmes discontinued (if any) with reasons:** Nil
9. **Number of teaching posts**

Sl. No.	Position	Sanctioned				Filled			
		UG	M.E.(AE)	M.E.(CS)	M.E.(VLSI)	UG	M.E.(AE)	M.E.(CS)	M.E.(VLSI)
1	Professors	2	1	2	2	6	1	2	2
2	Associate Professors	5	2	2	2	13	1	2	2
3	Asst. Professors	17	-	2	2	8	1	2	2

## 10. Faculty profile with name, qualification, designation, specialization,

Sl. No.	Name of the Faculty member	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided
1	Dr. S. Salivahanan	Ph.D.	Principal	Microwave Integrated Circuits	39	9
2	Dr. S. Radha	Ph.D.	Professor	Wireless Ad hoc Network, Wireless Sensor Networks	25	21
3	Dr. S. Sundaravadivelu	Ph.D.	Professor	Optical Communications	32	13
4	Dr. P. Vijayalakshmi	Ph.D.	Professor	Signal Processing	22	8
5	Dr. Premanand V Chandramani	Ph.D.	Professor	VLSI	15	7
6	Dr. R. Amutha	Ph.D.	Professor	Wireless communication, Image processing	29	15
7	Dr. N. Venkateswaran	Ph.D.	Professor	Signal & Image processing, Wireless Communications	28	9
8	Dr. R. Jayaparvathy	Ph.D.	Professor	Wireless Networks	29	10
9	Dr. K. T. Selvan	Ph.D.	Professor	Antennas	29	2
10	Dr. A. Jawahar	Ph.D.	Professor	Sensor Networks	25	10
11	Dr. N. Edna Elizabeth	Ph.D.	Professor	Wireless Ad hoc Network and Security	21	1
12	Mr. C. Thiruvankatesan	M.E.	Associate Professor	VLSI and Embedded Systems	26	-
13	Dr. R. Rajavel	Ph.D.	Associate Professor	Speech Processing	12	8
14	Dr. R. Kishore	Ph.D.	Associate Professor	Wireless Sensor Networks	17	6
15	Dr. B. S. Sreeja	Ph.D.	Associate Professor	VLSI	14	8
16	Dr. Nandita Lavanis	Ph.D.	Associate Professor	Digital Communication	4	-
17	Dr. K. S. Vishvakshan	Ph.D.	Associate Professor	Wireless Communications	22	7
18	Dr. K. Muthumeenakshi	Ph.D.	Associate Professor	Wireless Networks	16	2
19	Dr. S. Sakthivel Murugan	Ph.D.	Associate Professor	Underwater Communications	16	3
20	Dr. R. Kalidoss	Ph.D.	Associate Professor	Cognitive Radio	11	2
21	Dr. S. Joseph Gladwin	Ph.D.	Associate Professor	Image Processing, VLSI	18	-



Sl. No.	Name of the Faculty member	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided
22	Dr. M. Gulam Nabi Alsath	Ph.D.	Associate Professor	Antennas and Microwave Engg.	6	5
23	Dr. S. Esther Florence	Ph.D.	Associate Professor	Antennas and Microwave Engineering	6	2
24	Dr. K. J. Jegadish Kumar	Ph.D.	Associate Professor	VLSI – Cryptography	15	-
25	Dr. V. Vaithianathan	Ph.D.	Associate Professor	RF – VLSI	20	-
26	Dr. K. K. Nagarajan	Ph.D.	Associate Professor	Radiation in RF Microelectronics	17	-
27	Dr. R. Hemalatha	Ph.D.	Associate Professor	Wireless Communication	12	1
28	Dr. M. Anbuselvi	Ph.D.	Associate Professor	VLSI signal processing and Embedded System Design	13	-
29	Dr. C. Annadurai	Ph.D.	Associate Professor	Wireless Ad hoc Networks	24	-
30	Dr. B. Ramani	Ph.D.	Associate Professor	Speech Signal Processing	12	-
31	Dr. B. Partibane	Ph.D.	Associate Professor	Wireless Communications	15	-
32	Dr. S. Ramprabhu	Ph.D.	Associate Professor	Antennas and Microwave Engineering	4	-
33	Mr. I. Nelson	M.E.	Associate Professor	Underwater Communication	18	-
34	Mr. C. Vinoth Kumar	M.E.	Asst. Professor	Signal and Image Processing	15	-
35	Ms. P. Kaythry	M.Tech.	Asst. Professor	Wireless Communication Networks	14	-
36	Mr. N. Prabagarane	M.Tech.	Asst. Professor	Wireless Communications	16	-
37	Mr. S. Karthie @ Ayyadurai	M.E.	Asst. Professor	Microwave Integrated Circuits	14	-
38	Ms. G. Durga	M.E.	Asst. Professor	Microelectronics and Low Power VLSI	13	-
39	Mr. W. Jino Hans	M.Tech.	Asst. Professor	Embedded Systems	11	-
40	Ms. S. Hanis	M.Tech.	Asst. Professor	VLSI	13	-
41	Ms. S. Karthika	M.E.	Asst. Professor	Wireless Communication	11	-

Sl. No.	Name of the Faculty member	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided
42	Ms. S. Kirubaveni	M.E.	Asst. Professor	MEMS	6	-

11. List of senior visiting faculty: Nil

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: Nil

13. Student -Teacher Ratio (programme wise)

Sl. No.	Programme	No. of Students	Faculty strength	STR
1	B.E. (ECE)	360	27	1 : 13.33
2	M.E. (AE)	36	3	1 : 12
3	M.E. (CS)	72	6	1 : 12
4	M.E. (VLSI)	72	6	1 : 12

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

Sl. No.	Staff	Sanctioned	Filled
1	Academic support staff (technical)	8	8
2	Administrative staff	5	2

15. Qualifications of teaching faculty with D.Sc./ D.Litt./ Ph.D./ M. Phil. / PG.

Qualification	D.Sc. / D.Litt.	Ph.D.	M. Phil.	PG
Number of Faculty	-	31	-	11

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received

Sl. No.	Funding Agency	Number of faculty	Grants received
1	National funding agencies	8	302.0522 Lakh
2	International funding agencies	3	8.4 Lakh

**17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received:**

Total Grants received: **310.4522 Lakh**

Sl. No.	Principal Investigators / Co Investigators	Project Title	Funding Agency	Duration	Amount in Rs. (Lakh)		Current Status
					Sanctioned	Utilized	
1	Dr. T. Nagarajan (PI) (Dept of IT) Dr.P. Vijaya lakshmi (Co-PI)	Speech assistive aids for visually challenged people	TVA	2017 - 2018	25	In progress	Ongoing
2	Dr.K.T.Selvan (PI) Dr.A.Patnaik (IIT Roorke) Dr.R.Kalidoss (CI)	The feasibility of bandwidth enhancement of reflectarray antenna at Ku band for conventional and shaped beams	ISRO	2017 - 2019	12.81	In progress	Ongoing
3	Dr.S.Esther Florence (PI) Mr.Vimal Sam Singh (Co-PI)(Dept. Of Mechanical)	Design and development of a computer controlled system for the production of textile antennas and sensors	DST SERB	2016 - 2019	30.96	In progress	Ongoing
4	Dr.P.Vijayalakshmi (PI) Dr.T.Nagarajan (Co-PI) (Dept. of IT)	Speech-Input Speech-Output Communication Aid (SISOCA) for Speakers with Cerebral Palsy	DST TIDE	2017 - 2019	13.72	In progress	Ongoing
5	Dr. T. Nagarajan (PI) (Dept. of IT) Dr.P.Vijayalakshmi (Co PI)	HMM-based Text-to-speech synthesis system for Malaysian Tamil	Murasu systems Sdn Bhd, Malaysia	2016 - 2017	4	In progress	Ongoing
6	Dr.T.Nagarajan (PI) (Dept. of IT) Dr.P.Vijaya lakshmi (Co - PI) Dr.B.Bharathi (Co-PI) (Dept. of CSE) Ms.Sasirekha (Co - PI) (Dept. of IT)	Speech enabled interactive enquiry system in Tamil	TVA	2016 - 2017	9.52	In progress	on going
7	Dr.S.Salivahanan Dr.S.Radha	Fund for Improvement of S&T Infrastructure	DST - FIST	2014 - 2019	50	In progress	on going
8	Dr.T.Nagarajan (PI) (Dept. of IT) Dr.P.Vijaya lakshmi (Co-PI) Dr.A.Shanina (Co-PI) (Dept. of IT)	Development of Text-to-speech synthesis for Indian languages	MCIT	2012 - 2017	77	In progress	on going

9	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 using TCAD	DRDO	2012-2015	30.5	29.47	Completed
10	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	Completed
11	Dr.S.Radha (PI) Dr.Premanand V.Chandramani (PI)	Intel Embedded Curriculum Initiative in India	INTEL	2011 - 2014	4	4	Completed
12	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
13	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
14	By Dept. Faculty and Students	No. of Internal Funded Projects-35	SSN Trust	2014 - till date	18.94	9 (approx)	Ongoing

#### 18. Research Centre/ facility recognized by the University:

The department has been recognized as Research Centre by Anna University, Chennai since 2006 to offer Ph. D. & M.S. (By Research) programmes.

#### 19. Publications:

Sl. No.	Name of the Faculty member	No. of papers published		Citation indices range			
		Conference	Journal	Impact Factor	Latest SJR	Latest SNIP	Latest h index
1	Dr. S. Salivahanan	5	10	0.713-5.613	1.574-3.149	2.193-3.146	3.222-6.33
2	Dr. S. Radha	71	57	0.051-1.70	0.12-1.462	0.09-2.088	5-58
3	Dr. S. Sundaravadivelu	51	52	0.047-5.618	0.108-0.464	0.054-1.313	6-120
4	Dr. P. Vijayalakshmi	65	7	0.911-2.468	0.158-1.201	0.708-1.939	11-138

5	Dr. Premanand V Chandramani	38	13	0.93-4.934	0.67-1.91	1.05-5.001	119-329
6	Dr. R. Amutha	40	30	0.461-4.039	0.13-3.29	0.17-3.242	5-119
7	Dr. N. Venkateswaran	30	28	0.13-1.331	0.13-0.408	0.17-0.99	5-20
8	Dr. R. Jayaparvathy	49	33	0.6-1.42	0.11-0.39	0.865-1.314	5-78
9	Dr. K. T. Selvan	38	52	0.185-2.181	0.155-2.658	0.382-2.66	11-132
10	Dr. A. Jawahar	10	12	0.119-1.392	0.12-0.86	0.094-2.749	3-29
11	Dr. N. Edna Elizabeth	35	11	0.493-1.287	0.13-0.39	0.17-0.92	5-26
12	Mr. C. Thiruvankatesan	15	5	0	0.13-0.13	0.17-0.17	5-5
13	Dr. R. Rajavel	7	7	0.6-0.6	0.21-0.439	0.211-1.053	4-23
14	Dr. R. Kishore	19	11	0.478-1.564	0.21-0.711	0.5-2.088	8-37
15	Dr. B. S. Sreeja	44	23	0.35-0.964	0.269-0.884	0.35-0.593	10-58
16	Dr. Nandita Lavanis	14	5	0.227-0.92	0.13-0.55	0.44 - 0.99	19-48
17	Dr. K. S. Vishvakshenan	20	10	0.653-0.817	0.315-0.717	0.511-1.538	15-32
18	Dr. K. Muthumeenakshi	17	9	0.103-1.075	0.13-1.462	0.154-1.08	5-26
19	Dr. S. Sakthivel Murugan	40	16	0.101-0.81	0.144-0.827	0.511-1.165	5-19
20	Dr. R. Kalidoss	7	9	0.39-1.08	0.135-0.565	0.511-0.1.164	9-34
21	Dr. S. Joseph Gladwin	18	12	0.493-1.287	0.13-0.39	0.166-0.953	5-26
22	Dr. M. Gulam Nabi Alsath	12	25	0.35-2.18	0.269-2.658	0.356-2.66	10-132
23	Dr. S. Esther Florence	10	9	0.81-1.762	0.434-2.405	0.667-1.922	20-62
24	Dr. K. J. Jegadish kumar	7	16	0.18-0.715	0.16-0.175	0.468-0.6	26-26
25	Dr. V. Vaithianathan	40	17	0.27-0.715	0.121-0.336	0.166-0.735	3-20
26	Dr. K. K. Nagarajan	27	14	0.4-1.43	0.13-0.629	0.166-1.44	5-62
27	Dr. R. Hemalatha	17	7	0.051-0.931	0.12-0.711	0.09-1.538	5-30
28	Dr. M. Anbuselvi	15	8	0.18-0.715	0.13-0.432	0.166-0.6	5-26
29	Mr. C. Annadurai	12	1	0.817-0.817	0.13-0.717	0.17-1.538	5-30
30	Mr. I. Nelson	1	3	1.082	0.717	1.538	30
31	Mr. B. Partibane	4	3	0-0.81	0.135-0.347	0.511-0.614	19-20
32	Mr. C. Vinoth kumar	24	6	1.084	0.565	1.164	1.66

33	Ms. P. Kaythry	11	3	0-0.715	0.179	0.413	-
34	Mr. N. Prabagarane	29	15	0.653-0.965	0.364-1.53	0.529-1.538	17-41
35	Mr. S. Karthie @ Ayyadurai	9	3	0.126-1.682	0	0	0
36	Ms. G. Durga	17	5	1.104-2.117	0.511-0.597	0.712-0.98	20-50
37	Mr. W. Jino Hans	14	7	0	0.13-0.145	0.17-0.467	5-15
38	Ms. S. Hanis	11	3	0.349-0.715	0	0	0
39	Ms. B. Ramani	16	1	1.178	0.571	0.855	31
40	Ms. S. Karthika	6	2	0	0	0	0
41	Ms. S. Kirubaveni	9	4	0.35-0.964	0.269-0.884	0.35-0.593	10-58
42	Mr. S. Ramprabhu	6	10	0.35-1.703	0.269-2.405	0.356-1.922	11-98

All the publications have been listed in International database.

### Books published by Dr. S. Salivahanan

#### (a) Pan India Books:

Sl. No.	Title of Book(s)	Authors	Publisher & Year of Publication
1	Basic Electrical, Electronics and Computer Engineering	R. Muthusubramanian, S. Salivahanan and K. A. Muraleedharan	McGraw Hill Education New Delhi, 1994 Second Edition, 2000
2	Basic Electrical and Electronics Engineering	R. Muthusubramaniam and S. Salivahanan	Tata McGraw Hill, New Delhi, 2009
3	Electronic Devices and Circuits	S. Salivahanan and N. Suresh Kumar	McGraw Hill Education New Delhi, 1998, 2011 Third Edition, 2012
4	Digital Signal Processing	S. Salivahanan	McGraw Hill Education New Delhi, 2000, 2011 Third Edition, 2015
5	Digital Signal Processing	S. Salivahanan, A. Vallavaraj and C. Gnanapriya	McGraw Hill International, Singapore, 2001 Translated in Mandarin (Chinese) language by McGraw-Hill Education, Taiwan, 2002
6	Digital Circuits and Design	S. Salivahanan and S. Arivazhagan	Vikas Publishing House Pvt. Ltd., New Delhi, 2000, 2003, 2006 Fourth Edition, 2012
7	Linear Integrated Circuits	S. Salivahanan and V. S. Kanchana Bhaaskaran	McGraw Hill Education New Delhi, 2008 Second Edition, 2015
8	Circuit Theory	S. Salivahanan and S. Pravin Kumar	Vikas Publishing House Pvt. Ltd., New Delhi, 2014
9	Control Systems	S. Salivahanan, R. Rengaraj and G. R. Venkatakrishnan	Pearson Education, 2015
10	Network Analysis and Synthesis	S. Salivahanan and S. Pravin Kumar	Vikas Publishing House Pvt. Ltd., New Delhi, 2015

Sl. No.	Title of Book(s)	Authors	Publisher & Year of Publication
11	Electromagnetic Field Theory	S. Salivahanan and S. Karthie	Vikas Publishing House Pvt. Ltd., New Delhi, 2016

**(b) University Versions**

Sl. No.	Title of Book(s)	Authors	Publisher & Year of Publication
1	Semiconductor Devices and Circuits (JNTU, Andhra Pradesh)	S. Salivahanan, A. Vallavaraj and N. Suresh Kumar	Tata McGraw Hill, New Delhi, 2002
2	Digital Signal Processing (JNTU, Andhra Pradesh)	S. Salivahanan, A. Vallavaraj and N. Suresh Kumar	Tata McGraw Hill, New Delhi, 2002
3	Electronic Devices and Circuits (JNTU, Andhra Pradesh)	S. Salivahanan, A. Vallavaraj and N. Suresh Kumar	Tata McGraw Hill, New Delhi, 2002, Fifth Edition, 2006
4	Electron Devices and Electronic Circuits (Ascent Series) for Anna University	S. Salivahanan, A. Vallavaraj and N. Suresh Kumar	Tata McGraw Hill, New Delhi, 2003
5	Basic Electronics (VTU, Karnataka)	S. Salivahanan	Tata McGraw Hill, New Delhi, 2004
6	Basic Electronics (RGTU)	S. Salivahanan	Tata McGraw Hill, New Delhi, 2010
7	Electronic Devices and Circuits (JNTU, Kakinada)	S. Salivahanan and N. Suresh Kumar	Tata McGraw Hill, New Delhi, 2010
8	Electronic Devices and Circuits (JNTU, Hyderabad)	S. Salivahanan and N. Suresh Kumar	Tata McGraw Hill, New Delhi, 2010
9	Digital Logic Design (Gujarat Technical University)	S. Salivahanan and S. Arivazhagan	Vikas Publishing House Pvt. Ltd., New Delhi, 2010
10	Digital Electronics (Anna University Chennai)	S. Salivahanan and S. Arivazhagan	Vikas Publishing House Pvt. Ltd., New Delhi, 2010
11	Digital Logic Circuits (Anna University Chennai)	S. Salivahanan and S. Arivazhagan	Vikas Publishing House Pvt. Ltd., New Delhi, 2011
12	Electronic Circuits (JNTU, Hyderabad)	S. Salivahanan and N. Suresh Kumar	Tata McGraw Hill, New Delhi, 2012
13	Electronic Circuit Analysis (JNTU, Hyderabad)	S. Salivahanan and N. Suresh Kumar	Tata McGraw Hill, New Delhi, 2011 Third Edition 2013
14	Electronic Circuit Analysis (JNTU, Anantapur)	S. Salivahanan and N. Suresh Kumar	Tata McGraw Hill, New Delhi, 2011 Third Edition 2013
15	Analog Electronic Circuits (JNTU, Anantapur)	S. Salivahanan, N. Suresh Kumar and Suryaprakash Rao Mothiki	Tata McGraw Hill, New Delhi, 2012
16	Electronic Engineering (JNTU, Kakinada)	S. Salivahanan and N. Suresh Kumar	Tata McGraw Hill, New Delhi, 2012
17	Electronic Devices and Circuits (JNTU, Hyderabad & Anantapur)	S. Salivahanan and N. Suresh Kumar	Tata McGraw Hill, New Delhi, Third Edition, 2012

Sl. No.	Title of Book(s)	Authors	Publisher & Year of Publication
18	Electronic Devices and Circuits (JNTU, Kakinada)	S. Salivahanan and N. Suresh Kumar	Tata McGraw Hill, New Delhi, Second Edition, 2012
19	Electronics Engineering (UPTU)	S. Salivahanan and N. Suresh Kumar	Tata McGraw Hill, New Delhi, 2012
20	Electronic Devices (Anna University)	S. Salivahanan	McGraw Hill Education, 2014, II Edition 2015
21	Electronic Circuits - I	S. Salivahanan	McGraw Hill Education, 2014, II Edition 2015
22	Electronic Circuits II (Anna University)	S. Salivahanan and N. Suresh Kumar	McGraw Hill Education, 2015
23	Electronic Circuit Analysis (JNTU, Kakinada)	S. Salivahanan and N. Suresh Kumar	McGraw Hill Education, 2015
24	Electronic Devices and Circuits (JNTU, Hyderabad)	S. Salivahanan and N. Suresh Kumar	McGraw Hill Education, 2015
25	Linear Integrated Circuits (Anna University)	S. Salivahanan	McGraw Hill Education, 2015

**Books published by S. Radha**

Sl. No.	Title of Book(s)	Authors	Publisher & Year of Publication
1	Compressive Sensing for Wireless Communication: Challenges and Opportunities	S. Radha, R. Hemalatha S. Aasha Nandhini	River Publishers, 2016

**Books published by R. Kalidoss**

Sl. No.	Title of Book(s)	Authors	Publisher & Year of Publication
1	Introduction to Analog and Digital Communication	M. A. Bhagyaveni, R. Kalidoss and K.S. Vishvaksenan	River Publishers, 2016

**Books published by S. Sakthivel Murugan**

Sl. No.	Title of Book(s)	Publisher & Year of Publication
1	Analog and Digital Communication, Second Edition	RBA Publications, 2010
2	Communication Engineering, Second Edition	RBA Publications, 2011
3	Principles of Communication, Second Edition	RBA Publications, 2011

**20. Areas of consultancy and income generated**

Total Grants received: 3.61813 Lakh

Sl. No.	Name of the faculty	Area of consultancy	Amount in Rs. (Lakh)
1	Dr.S.Radha, Dr.K.T.Selvan, Ms.S.Esther Florence, Dr.M.Gulam Nabi Alsath, Mr.S.Ramprabhu	RF and Microwave measurements	0.96813



2	Dr.R.Rajavel	Course on Digital Signal Processing at BARC Training School, IGCAR	0.45
3	Dr.S.Radha, Dr.R.Jayaparvathy, Dr.R.Kishore, Dr.K.Muthumeenakshi	HCL Technologies – Industry oriented short term course on Wireless Technologies	1.97
4	Dr.S.Radha, Dr.K.T.Selvan, Ms.S.Esther Florence, Dr.M.Gulam Nabi Alsath, Mr.S.Ramprabhu	RF and Microwave measurements	0.115
5	Dr.S Sakthivel Murugan	HCL Technologies – Industry oriented short term course on Wireless Technologies	0.115

## 21. Faculty as members in

### a) National committees b) International Committees c) Editorial Boards

Name of the Faculty	Faculty as members in a) National committees b) International Committees c) Editorial Board
Dr. S. Salivahanan	<ul style="list-style-type: none"> <li>Chairman of IEEE Microwave Theory and Techniques Society, Chennai Chapter.</li> <li>Past Chairman of IEEE Madras Section.</li> <li>Executive Committee Member of IEEE Madras Section.</li> <li>Chairman, ASSOCHAM - Education &amp; Skill Development Expert Committee</li> <li>Member, Research Board, Anna University Chennai for three years with effect from 22.06.2012.</li> <li>Chairman, Faculty of Information and Communication Engineering, Anna University of Technology Chennai for three years since October 01, 2010.</li> <li>Member, Affiliation Standing Committee, Anna University of Technology Chennai for one year from 30.07.2010.</li> </ul>
Dr. S. Radha	<ul style="list-style-type: none"> <li>NBA – Expert member during 2013 &amp; 2014</li> <li>Executive Committee Member of IEEE Madras Section.</li> <li>Secretary of IEEE Communication Society, Chennai chapter</li> <li>Chairman of IEEE Communication Society, SSN Student chapter, SSNCE</li> <li>Anna University – Member, Inspection team</li> <li>Executive member – CFDP, Anna University – 2010 – 13</li> <li>Member – Syllabus Committee, AUT Chennai during 2010 -12</li> <li>Member of project advisory committee on Computer, Electronics &amp; Mathematical Sciences, Indo-Netherland projects</li> <li>Member of syllabus sub-committee, Anna University, Chennai</li> </ul>
Dr. P. Vijayalakshmi	<ul style="list-style-type: none"> <li>Member of syllabus sub-committee, Anna University, Chennai</li> </ul>
Dr. Premanand V. Chandramani	<ul style="list-style-type: none"> <li>Member of syllabus sub-committee, Anna University, Chennai</li> </ul>

Dr. N. Venkateswaran	<ul style="list-style-type: none"> <li>Executive Committee Member – IETE, Chennai</li> </ul>
Dr. R. Jayaparvathy	<ul style="list-style-type: none"> <li>Expert member during the Academic Audit at B.S. Abdur Rahman University</li> <li>Technical Committee Member, International Conference on Electrical Electronics Instrumentation and Computer Communication</li> </ul>
Dr. K.T. Selvan	<ul style="list-style-type: none"> <li>Administrator, IEEE AP-S Region 10 Distinguished Speaker Programme</li> <li>Founding Chair, IEEE Antennas and Propagation Society Madras Chapter (2013) and Chair, 2014 - 2015</li> <li>Member, IEEE Antennas and Propagation Society Education Committee</li> <li>E-learning Library Coordinator, IEEE Antennas and Propagation Society (2012 - 2013), IEEE-APS educational Initiatives Sub committee</li> <li>Academic Editor, International Journal of Antennas and Propagation (2006 - 2014)</li> <li>Editorial Board Member, International Journal of RF and Microwave Computer-Aided Engineering (2006 - 2011)</li> <li>Reviewer for major journals including IEEE Transactions on Antennas and Propagation and IEEE Antennas and Propagation Magazine and UK Higher Education Academy's National Teaching Fellowship Scheme</li> <li>Editorial Board Member of Forum for Electromagnetic Research and Advanced Technologies (FERMAT)</li> </ul>
Dr. A. Jawahar	<ul style="list-style-type: none"> <li>Academic Council Member of VELs University</li> </ul>
Dr. B. S. Sreeja	<ul style="list-style-type: none"> <li>International Advisory Committee member for EMN Meeting on MEMS-Egypt.</li> <li>Conference Technical committee member-International Conference on MEMS, Nanotechnology and Precision Engineering (ICMNPE 2017)-Busan, Korea.</li> <li>Executive member IEEE AP-S madras section</li> <li>Associate Editor, Journal of Applied Technology and Innovation, An international Journal from Asia Pacific University of Technology and Innovation.</li> <li>Conference Chair and keynote speaker, 12th national conference on Science, Engineering and Technology, VIT University</li> </ul>
Dr. S. Sakthivel Murugan	<ul style="list-style-type: none"> <li>Member, Board of Studies – Mahendra Engineering College</li> </ul>
Dr. S. Joseph Gladwin	<ul style="list-style-type: none"> <li>Chair of IEEE AP-S</li> </ul>

## 22. Student projects:

Sl. No.	Details	2015-16	2014-15	2013-14	2012-13	2011-12
1	Percentage of students who have done in-house projects	92%	95%	95%	95%	95%

2	Percentage of students placed for projects in organizations outside the institution	8%	5%	5%	5%	5%
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### 23. Awards/Recognitions received by faculty and students

Sl. No.	Name of the Faculty	Awards / Recognitions received by faculty
1	Dr. S. Radha	<ul style="list-style-type: none"> <li>Recipient of IETE SK Mitra Memorial Award from India council of IETE and TPC GWS 2015</li> <li>Conference chair IEEE ICWCSC 2010 and IEEE WiSPNET 2016</li> </ul>
2	Dr. K. T. Selvan	<ul style="list-style-type: none"> <li>IEEE AP-S Region 10 Distinguished Speaker, 2015-16</li> <li>Fellow, Higher Education Academy (UK)</li> </ul>
3	Dr. S. Sakthivel Murugan	<ul style="list-style-type: none"> <li>Young Researcher Award (2015)</li> </ul>

Sl. No.	Name of the Student	Awards / Achievements
<b>2016 – 2017</b>		
1	P. Divya	Special award from the Anna University annual award function on 7th Sep. 2016 for representing Anna University in University level Chess Tournaments
2	C. Joshitha (Research Scholar)	DST-AIT, National level top ten projects, Travel grant-Switzerland
<b>2014 – 2015</b>		
1	D. Sam Sundar, Girish Vaithyanathan	Won iPad Mini and shortlisted for CV in LatentView
2	D.Sam Sundar, S.Rajeshwer	Won 2 Lakh and shortlisted for interview at MuSigma
<b>2013 – 2014</b>		
1	R. Hemalatha, S. Radha, N. Raghuvaraman, B. Soumya B. Vivekanandan	Best Paper award International Conference on IT and Intelligent Systems, Penang, Malaysia
<b>2012 – 2013</b>		
1	SaiKiran S	Second prize in hanging quiz in Saveetha Engineering College Techfest DRESTEIN -12
2	Wasim Ahmed I, Rohit P. Jain	Third prize in hanging quiz in Saveetha Engineering College Techfest DRESTEIN -12
3	Sabarish Karthik, Prasaanth Muralidharan, Yuvika Ashwina Rajan, Shriram Swaminathan, Prabagarane Nagaradjane	Best Paper award at IEEE International conference on communication and Signal Processing, April 2012
4	Akshay Ramachandran, Srinath T M	Best Paper award at SILICON – Sathyabama University Inter collegiate level IEEE Conference, Sep. 2012.

**24. List of eminent academicians and scientists/visitors to the department**

Sl. No.	Date	Details
<b>2016-2017</b>		
1	28.03.2017	Prof. Satish K.Sharma, Director, Antenna & Microwave Lab, San Diego State University, USA
2	24.03.2017	Mr. Vishal Sharma, Engineering Manager, Intel, Bengaluru
3	24.03.2017	Mr. Vishwas Lakkundi, IoT Specialist and Consultant, Bengaluru
4	24.03.2017	Dr. Santi P. Maity, Professor, Department of Information Technology, India Institute of Engineering Science and Technology, Shibpur, West Bengal, India
5	23.03.2017	Dr. Ozan Tonguz, CMU, Pittsburgh, USA
6	23.03.2017	Dr. Giacomo Morabito, University of Catania, Italy
7	23.03.2017	Mr. Vijay Anand, Director, Aricent Technologies
8	22.03.2017	Dr. Lajos Hanzo, University of Southampton, UK
9	22.03.2017	Dr. David Akopian, University of Texas at San Antonio
10	22.03.2017	Dr. Raed Mesleh, German Jordanian University, Jordan
11	22.03.2017	Dr. Kota Solomon Raju, Principal Scientist, CSIR – CEERI, Pilani
12	16.03.2017	Mr.Ashok Govindarajan, Principal Architect, Sasken Communication Technologies, Chennai
13	16.03.2017	Dr.M.Meenakshi, Professor, College of Engineering, Guindy, Chennai
14	14.03.2017	Mr.R.Rajagopalan, Deputy CTO, Tata Elxsi
15	30.01.2017	Prof. M.Anbarasu, Electrical Engg. Dept, IIT Indore
16	19.01.2017	Prof. Sembiam R.Rengarajan, California State University, Northridge, USA
17	24.09.2016	Dr.C.Chandra Sekhar, Prof, Department of Computer science and Engineering, IIT Madras
18	24.09.2016	Prof.R.Jayakumar, Retired Scientist, DRDO
19	29.04.2016	Mr. Sabapathy Rajarethinam, Head of IOT Forum, Sr. Manager System Design, T- Mobile, USA
20	08.04.2016	Mr. Ram Mirwani, Director, Global Strategic Accounts for AWR, USA
21	07.04.2016	Mr. R. Rajagopalan, Chief Architect, Communications BU, Embedded Product Design, Tata Elxsi
<b>2015-2016</b>		
1	29.04.2016	Mr. Sabapathy Rajarethinam, Head of IOT Forum, Sr. Manager System Design, T- Mobile, USA
2	08.04.2016	Mr. Ram Mirwani, Director, Global Strategic Accounts for AWR, USA
3	07.04.2016	Mr. R. Rajagopalan, Chief Architect, Communications BU, Embedded Product Design, Tata Elxsi

4	31.03.2016	Mr.Jayachandran Narayan, Manager in Learning and Development, Tata Elxsi, Bangalore
5	03.03.2016	Mr.Sathosh Neelangatil
6	12.11.2015	Dr.P. H. Rao, SAMEER, Chennai
7	26.09.2015	Mr. K. B. Rajendra Kumar, CISCO System, Bangalore
8	03.08.2015	Dr. A. Alphons, E.L.Tan, Nanyang Technological University, Singapore
9	09.07.2015	Dr. Nisha Gupta, BITS, Ranchi
<b>2014-2015</b>		
1	07.07.2014	Dr. Rajeev Shorey, DEITY, Government of India
2	06.08.2014	Mr. Karthikeyan, Tata Elxsi
3	27.10.2014	Dr. Shenario Ezhil, Fraunhofer Institute, Germany
4	04.11.2014	Dr. Chin Yeng Tan, Motorola Solutions, Penang
5	06.11.2014	Dr. Arokiaswamy Alphons, Nanyang Technological University, Singapore
6	17.04.2015	Mr. A. Saranraj, CVRDE
7	04.05.2015	Dr. M. Anbarasu, IIT Indore
<b>2013-2014</b>		
1	05.07.2013	Mr. Sam Karikalan, Broadcom Corporation in Irvine, California
2	02.01.2014	Tapan K. Sarkar, Syracuse University
3	19.03.2014	Dr. R. Chandramouli, Thomas E. Hattrick Stevens Institute of Technology, NJ
4	20.03.2014	Dr. Devendra Jalihal, IIT Madras
5	27.03.2014	Dr. Radhakrishna Ganti, IIT Madras
6	07.04.2014	Mr. Sanjai Bhaisakiya, SAMEER – Centre for Electromagnetics
<b>2012-2013</b>		
1	04.10.2012	Mr. Srikanth, Visteon, Chennai
2	02.11.2012	Dr. K. Malathy, Anna University
3	13.12.2012	Dr. P Hanumantha Rao, SAMEER - Centre for Electromagnetics
4	17.12.2013	Mr. R. Ganesan, SAMEER - Centre for Electromagnetics
5	27.02.2013	Mr. Ganesh Balasubramanian, Amphenol Antenna Solutions, Chennai
6	15.02.2013	Mr. S Rajagopalan, GE Health Care
7	14.03.2013	Ms. Sheela Mangalam, Chennai

**25. Seminars /Conferences / Workshops organized & the source of funding a) National  
b) International**

Sl. No.	Seminars /Conferences / Workshops organized	Funded by
<b>2016-17</b>		
1	Workshop on 'Key Electromagnetic Concepts'	IEEE AP-S Madras Chapter
2	Faculty Development Programme on Electromagnetics	IEEE AP-S Madras Chapter
3	IEEE-INAIE Symposium on Electromagnetic Education and Research	IEEE AP-S Madras Chapter, IEEE MTT-S Madras Chapter & INAIE
4	Faculty Development Program on Antenna Design and Measurement Techniques	IEEE
5	Workshop on Internet of Things for Industrial Applications	Dept. of ECE, SSNCE
6	IEEE International Conference on Wireless Communications, Signal processing and Networking (WiSPNET-2017)	IEEE, IEEE ComSoc, SSN, SERB, Aconf, ISRO, Pearson
7	National Level STTP on VLSI for Wireless Communication System Design (VLSI WCSD)	Dept. of ECE, SSNCE
8	National Conference on Research Challenges in VLSI Design and Embedded Systems for Wireless Communications (RCVEWC 2016)	Dept. of ECE, SSNCE
9	Workshop on Hands on Introduction to Arduino for Beginners	Dept. of ECE, SSNCE
10	Teacher's Conclave	Good Citizenship Forum, Dept. of ECE, Rajaji Centre for Public Affairs (RCPA), Chennai and ISTE, SSNCE Chapter
11	IEEE sponsored Shannon Centennial Seminar on Information Coding Techniques	IEEE Information Theory Society
12	Hand on training on "MEMS design tools	Dept. of ECE SSNCE
<b>2015-16</b>		
1	IEEE International Conference on Wireless Communications, Signal Processing and Networking	IEEE, SSN, CTS, mGage, DRDO, TCS, Elmac Technologies, ISRO
2	Winter school on Speech and audio processing	ISCA, TDIL, TVA, CTS and SSN Trust
3	Faculty Development Program on VLSI Design	SSN Trust
4	Seven days FDTP on Antenna and Wave Propagation (EC6602)	Anna University
5	Hands on training workshop in MEMS Design Tools	SSN Trust
6	One day workshop on Antenna & RF/Microwave simulations using CST Studio suite 2015	SSN Trust
7	Two days workshop On Cadence Tools	SSN Trust
8	National Workshop on Internet of Things	SSN Trust
9	Two day workshop on Embedded Systems	SSN Trust
10	Two day workshop on MSP430 Wireless Interfacing Modules	SSN Trust
11	National Level Short Term Training Program (STTP) on VLSI for Wireless Communication System Design	SSN Trust

12	National Conference on Research Challenges in VLSI Design and Embedded Systems for Wireless Communication	SSN Trust
<b>2014-15</b>		
1	National level workshop on Cognitive Software Defined Radio	SSN Trust
2	Seminar Developments in "Medical Image Processing"	Indian Council of Medical Research
3	Workshop on "Advanced Antenna Technology"	IEEE Antenna and Propagation Society Madras Chapter and SSN
4	National Workshop on "Cryptography And Network Security"	SSN Trust
5	Comprehensive Hands on Experience on MEMS Design and Simulation Using Intellisuite Software	SSN Trust
6	Entrepreneurship Seminar	SSN Trust
7	National Conference on Information and Communication Technology (NCICT-2015)	SSN Trust
8	Workshop on "Technologies for speaker and language recognition"	SSN Trust
<b>2013-14</b>		
1	Inauguration of IEEE AP-S Madras Chapter and Distinguished Lecture at Anna University	Madras Chapter of IEEE AP-S
2	Seminar on Research and Publishing' at SAMEER – Centre for Electromagnetics, Chennai	Madras Chapters of IEEE AP-S and MTT-S
3	Workshop on Electromagnetics'	Madras Chapter of IEEE AP-S and SSN
4	Symposium on Electromagnetics and Engineering Education'	IIT-M, SSN and Madras Chapter of IEEE AP-S
5	National workshop on "ARM Embed Cortex-M Processor Platform"	SSN and Transmos Technologies, Coimbatore
6	National Level Workshop on "Trends & Developments in Signal Processing and its Application"	SSN, TI India University Program & Cranes Software International Limited
7	National Conference on Information and Communication Technology (NCICT-2014)	SSN Trust
<b>2012-13</b>		
1	Workshop on "DSP Integrated Circuits"	SSN Trust
2	Workshop on "Electronic System Design and Manufacturing"	Ministry of Communication & Information Technology and SSN
3	Seminar on RF Technologies, Measurement and Application	Agilent Technologies and Elmac Engineering, Chennai and SSN
4	Workshop on "Robotics"	AIESEC IIT-Kharagur , ARK Techno solutions and SSN Trust
5	Seminar on "Advances in wireless communications"	SSN Trust
6	National Conference on Emerging Trends in Information and Communication Technologies (NCETICT-2K13)	SSN Trust
<b>2011-12</b>		
1	Seminar on Advances in Signal and Image Processing	CSIR
2	Seminar on Engineering Principles in Nanotechnology	Quantum Nano scientific Pvt. Ltd. and SSN

3	Faculty development program on Advanced VLSI Design	Cognizant Technology Solutions (CTS) and SSN
4	Workshop on Introduction to Robotics	IIT Bombay and SSN
5	Workshop on Telecommunications and Wireless Communication Networks	SSN Trust

**26. Student profile programme/coursewise:**

Year of Admission	Name of the Course/programme	Applications received (Mgmt. Quota)	Selected (Mgmt +SWS+LE)	Enrolled		Pass percentage
				Male	Female	
2016-17	B.E. (ECE)	4500	138	72	66	
	M.E. (AE)	82	8	1	7	
	M.E. (CS)	82	22	3	19	
	M.E. (VLSI)	82	4	2	2	
2015-16	B.E. (ECE)	4140	129	68	61	
	M.E. (AE)	10	12	1	11	
	M.E. (CS)	25	31	7	24	
	M.E. (VLSI)	18	34	13	21	
2014-15	B.E. (ECE)	3450	148	62	86	
	M.E. (AE)	28	14	4	10	
	M.E. (CS)	38	31	9	22	
	M.E. (VLSI)	44	32	12	20	
2013-14	B.E. (ECE)	3360	144	82	62	

**27. Diversity of Students**

Year of Admission	Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
2016-17	B.E. (ECE)	109	13	0
	M.E. (AE)	7	0	0
	M.E. (CS)	22	0	0
	M.E. (VLSI)	3	1	0
2015-16	B.E. (ECE)	93.02	4.65	2.33
	M.E. (AE)	100	-	-
	M.E. (CS)	96.77	3.23	-
	M.E. (VLSI)	97.06	2.94	-
2014-15	B.E. (ECE)	96.06	3.16	0.78
	M.E. (AE)	100	-	-
	M.E. (CS)	93.55	6.45	-
	M.E. (VLSI)	100	-	-
2013-14	B.E. (ECE)	95.83	4.17	-



**28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?**

Year	NET / SLET	GATE	Civil & Defense services	GRE & TOFEL
2016-17	-	-	-	25
2015-16	-	-	-	30
2014-15	-	2	-	35
2013-14	-	2	-	18
2012-13	-	2	-	22
2011-12	-	1	-	25

**29. Student progression (against percentage enroll):**

Year	UG to PG (%)	PG to Ph.D. (%)	Employed by		Entrepreneurship / Self-employment (%)
			Campus selection (%)	Other than campus recruitment (%)	
2016-17	18.30	-	81.1	-	-
2015-16	19.01	1.33	67.3	4.1	-
2014-15	22.45	5.62	67.8	6.1	-
2013-14	12.50	9.09	55.4	14.2	1
2012-13	17.69	9.30	52.6	16.7	1
2011-12	19.23	13.64	72.8	9.2	1

**30. Details of Infrastructural facilities**

**a) Details of Department Library:**

Area: 100 Sq.m

Sl. No.	Year	No. of Titles added in the Year	No. of Titles Cumulative Total
1	2016 – 2017	109	3149
2	2015 – 2016	99	3040
3	2014 – 2015	164	2941
4	2013 – 2014	176	2777
5	2012 – 2013	178	2601
Cumulative Total up to 2011 -2012			2423

**b) Internet facilities for Staff & Students**

Name of the Internet provider	M/s. Airtel and M/s. Aircel
Available bandwidth	310 Mbps
Institute's own e-mail facility to faculty / students	Institution email id <u>*@ssn.edu.in</u> is given to faculty, staffs and students
Wi-Fi	Around 300 access points covering entire Campus

**c) Class rooms with ICT facility**

Sl. No.	No. of Class rooms	Usage	Area	Facilities available in each room
1	6	Class room for UG-ECE	120 Sq.m each	Laptop, Internet, LCD Projector & Screen, Black Board

2	11	Class rooms for PG	80 Sq.m each	Laptop, Internet, LCD Projector & Screen, Black Board
3	1	Seminar Hall With AC	100 Sq.m	AC, Internet, LCD Projector, White Board, Echo suppressor
4	1	Conference Room	46 Sq.m	Refrigerator, Microwave Oven, Black board, Internet, LCD Projector
5	1	Conference Room	50 Sq.m	Laptop, Internet, LCD Projector & Screen

**d) Laboratories**

Sl. No.	Lab Details	Name of the Equipment	Space / No. of Students
1	Electronics Lab I	DSO, CRO, FG, Pulse Generator, ORCAD PSpice	177 Sq.m / 37
2	Electronics Lab II	DSO, CRO, FG, Pulse Generator	88 Sq.m / 30
3	Integrated Circuits Lab	IC Trainer Kit, CRO, DSO, Function Generator, Computers, ORCAD PSpice	165 Sq.m / 37
4	Digital Signal Processing & Networks Lab	Server, Computers, ADSPBF533, TI5416DSK, TI6713DSK, Matlab, LAN & WLAN Trainer, DSO, FG	151 Sq.m / 37
5	Communication Lab	CRO, DSO, Spectrum Analyzer, Network Analyzer, Antenna Training System, AM/FM Synthesizer Generator	177 Sq.m / 37
6	Microprocessor & Microcontroller Lab	Trainer kits (8051, 8086, 8085), ARM Kit, C Cross Compiler, Universal Programme Board,	165 Sq.m / 37
7	VLSI Lab	CADENCE Software, TANNER EDA, Mentor Graphics Tool, Xilinx ISE & FPGA Kit, DSP Trainer Kit, ARM Embedded Kit & Software, DSO,	165 Sq.m / 37
8	Microwave & Optic Fibre Lab	Matlab R11, Computers, DSO, Optical Fiber System & Tool kit, Microwave Trainer Kit & benches, GPS Trainer Kit, MIC Component Setup, WICOM Tool Kit, IE3D Software, Microwave Power meter, APD Module	165 Sq.m / 37
9	Low Power Systems & Computing Lab	Intel ATOM - Evaluation module, GPS / GSM Module,	89 Sq.m / 18
10	PG Lab - II	Computers, Printer, CST Microwave studio, Matlab R2015	122 Sq.m / 18
11	Optical Research & Networks Lab	Intellisuite MEMs Design tool, Tunable external cavity Laser Module, Optical Spectrum Analyzer AQ 6370, XYZ Manipulators, Computers, Michelson - Interferometer kit, 3 Axis Nanopositioner + accessories, SM Benchtop SLD source (Broadband Source) - Thor Labs	46 Sq.m / Research Lab
12	Research & Projects Lab	ADS Software, Computers	122 Sq.m / Research Lab

**31. Number of students receiving financial assistance from college, university, Government or other agencies**

**B.E. - ECE**

Sl. No.	Year	No. of Students receiving financial assistance from			
		College	University	Government	Other agencies
1	2016-17	66	-	75	-
2	2015-16	80	-	73	-
3	2014-15	103	-	47	-
4	2013-14	105	-	50	-
5	2012-13	93	-	25	-
6	2011-12	80	-	21	-

**M.E. – Applied Electronics**

Sl. No.	Year	No. of Students receiving financial assistance from			
		College	University	Government	Other agencies
1	2016-17	-	-	4	-
2	2015-16	-	-	7	-
3	2014-15	-	-	6	-
4	2013-14	-	-	5	-
5	2012-13	1	-	3	-

**M.E. – Communication Systems**

Sl. No.	Year	No. of Students receiving financial assistance from			
		College	University	Government	Other agencies
1	2016-17	-	-	8	-
2	2015-16	-	-	7	-
3	2014-15	3	-	17	-
4	2013-14	1	-	12	-
5	2012-13	6	-	7	-

**M.E. – VLSI Design**

Sl. No.	Year	No. of Students receiving financial assistance from			
		College	University	Government	Other agencies
1	2016-17	-	-	6	-
2	2015-16	-	-	8	-
3	2014-15	3	-	9	-
4	2013-14	2	-	6	-
5	2012-13	5	-	5	-

**32. Details on student enrichment programmes (special lectures/workshops/ seminar) with external experts**

Sl. No.	Date	External Experts Invited	Topic of special lectures/workshops/ seminar
<b>2016-2017</b>			
1	28.03.2017	Prof. Satish K.Sharma, Director, Antenna & Microwave Lab, San Diego State University, USA	MIMO and Massive MIMO Array Antennas

Sl. No.	Date	External Experts Invited	Topic of special lectures/workshops/ seminar
2	16.03.2017	Mr.Ashok Govindarajan, Principal Architect, Sasken Communication Technologies, Chennai	Contemporary issues in wireless communications
3	16.03.2017	Dr.M.Meenakshi, Professor, College of Engineering, Guindy, Chennai	4G and its Challenges
4	14.03.2017	Mr.R.Rajagopalan, Deputy CTO, Tata Elxsi	Strategy & Management
5	30.01.2017	Prof. M.Anbarasu, Electrical Engg. Dept, IIT Indore	Emerging Trends in Phase Change Memories
6	19.01.2017	Prof. Sembiam R.Rengarajan, California State University, Northridge, USA	Maxwell's legacy
7	24.09.2016	Dr.C.Chandra Sekhar, Prof, Department of Computer science and Engineering, IIT Madras	SVMs for pattern classification
8	24.09.2016	Prof.R.Jayakumar, Retired Scientist, DRDO	Engineering EMI/EMC Concepts
9	29.04.2016	Mr. Sabapathy Rajarethinam, Head of IOT Forum, Sr. Manager System Design, T- Mobile, USA	4G and Beyond
10	08.04.2016	Mr. Ram Mirwani, Director, Global Strategic Accounts for AWR, USA	Empowering RF Design Education: Using Measurements in the Design Flow with NI and AWR
11	07.04.2016	Mr. R. Rajagopalan, Chief Architect, Communications BU, Embedded Product Design, Tata Elxsi	Thinking on these things
<b>2015-2016</b>			
1	29.04.2016	Mr. Sabapathy Rajarethinam, Head of IOT Forum, Sr. Manager System Design, T- Mobile, USA	4G and Beyond
2	08.04.2016	Mr. Ram Mirwani, Director, Global Strategic Accounts for AWR, USA	Empowering RF Design Education: Using Measurements in the Design Flow with NI and AWR
3	07.04.2016	Mr. R. Rajagopalan, Chief Architect, Communications BU, Embedded Product Design, Tata Elxsi	Thinking on these things
4	31.03.2016	Mr.Jayachandran Narayan, Manager in Learning and Development, Tata Elxsi, Bangalore	Soft Skills Training for Students
5	03.03.2016	Mr.Sathosh Neelangatil	Do's and Don'ts of Further Education Abroad
6	12.11.2015	Dr. P. H. Rao, SAMEER, Chennai	Antenna Applications
7	26.09.2015	Mr. K. B. Rajendra Kumar, CISCO System, Bangalore	Signal integrity essentials

Sl. No.	Date	External Experts Invited	Topic of special lectures/workshops/ seminar
8	03.08.2015	Dr. A. Alphones, E.L.Tan, Nanyang Technological University, Singapore	Research Directions in Antennas and Microwave
9	09.07.2015	Dr. Nisha Gupta, BITS, Ranchi	EMC Compliance in Electronic Devices
<b>2014-2015</b>			
1	04.05.2015	Dr. M. Anbarasu, IIT Indore	Advanced Memories
2	17.04.2015	Mr. A. Saranraj, CVRDE	India's Technology Progress
3	07.01.2015	Dr. K. Subramanian, IGNOU	Cyber Security
4	04.11.2014	Dr. Chin Yeng Tan, Motorola Solutions, Penang	Microwave Engineering and Industry
5	06.11.2014	Dr. Arokiaswamy Alphones, NTU, Singapore	Emerging Broadband Technologies of Optical Wireless Communication
6	27.10.2014	Dr. Shenario Ezhil, Fraunhofer Institute, Germany	Current State of the Art Research in Defense and Space Microwave Engineering – An Overview
7	09.10.2014	Welcome to the world of ECE	Mr. A. K. Mohammed Azad, REACH Information & Communication System
8	06.08.2014	Mr. Karthikeyan, Tata Elxsi	Let's Make Wireless Simple for us
9	07.07.2014	Dr. Rajeev Shorey, DEITY, Government of India	Emerging Telematics Services for Smart Cars
<b>2013-2014</b>			
1	07.04.2014	Mr. Sanjai Bhaisakiya, SAMEER – Centre for Electromagnetics	Need for EMI & EMC Compliance in Electronic Systems
2	27.03.2014	Dr. Radhakrishna Ganti, IIT Madras	Current and emerging technologies for research in Wireless Networking
3	20.03.2014	Dr. Devendra Jalihal, IIT Madras	Current and emerging technologies for research in Wireless communication
4	19.03.2014	Dr. R. Chandramouli, Thomas E. Hatrick Stevens Institute of Technology, NJ	Dynamic Spectrum Access Wireless Networking
5	02.01.2014	Tapan K. Sarkar, Syracuse University	Why Study Electromagnetics?
6	26.09.2013	Ms. Radha Goverdhan, Chennai	Software Methodologies – Agile and Scrum
7	08.08.2013	Mr. Gigeo, Princeton Review, Chennai	Higher Education Abroad
8	05.07.2013	Mr. Sam Karikalan, Broadcom Corporation in Irvine, California	The future of mobile electronics

Sl. No.	Date	External Experts Invited	Topic of special lectures/workshops/ seminar
<b>2012-2013</b>			
1	14.03.2013	Ms. Sheela Mangalam, Chennai	Reconfigurable Radio Systems
2	27.02.2013	Mr. Ganesh Balasubramanian, Amphenol Antenna Solutions, Chennai	Importance of antenna design in base station wireless infrastructure
3	15.02.2013	Mr. S Rajagopalan, GE Health Care	Introduction to MRI and Current Trends
4	17.12.2013	Mr. R. Ganesan, SAMEER - Centre for Electromagnetics	Need for EMI & EMC Compliance in Electronic Systems
5	13.12.2012	Dr. P Hanumantha Rao, SAMEER - Centre for Electromagnetics	Technology trends and reconfigurable antennas
6	11.12.2012	Dr. K. T. Selvan, SSNCE	A Story of Maxwell's Displacement Current Concept
7	02.11.2012	Dr. K. Malathy, Anna University	Antenna – Next Generation Design
8	04.10.2012	Mr. Srikanth, Visteon, Chennai	Automotive Industries & Automotive Technologies
<b>2011-2012</b>			
1	17.05.2012	Mr. R. Perumalraja Carleton University, Canada	MAC layer QoS / QoE framework in 4G wireless networks
2	19.04.2012	Mr. M. S. Balamurugan, Foundation of Innovation and Collaborative Education (FICE), Bangalore	Recent Trends in Embedded Technologies
3	20.03.2012	Dr. G. A. Ramadoss, NIOT (ROSUB), Chennai	Manned Submarine System
4	05.03.2012	Mr. A. Vaidyanathan, Aricent, Chennai	Realization of Networking Concepts in real time
5	27.01.2012	Mr. S. R. Harish Kumar, UFSL – R&D Division, Chennai	Introduction to Automotive Electronics and CAN Communication
6	23.01.2012	Dr. Mohd Khalid Siddiqui, University of Nottingham, Malaysia	Overview of PG Programmes offered at University of Nottingham and Carrier opportunities

### 33. Teaching methods adopted to improve student learning

The apparent global focus in modern academic institutions on research rather than on teaching notwithstanding, the department recognizes that high-quality undergraduate and postgraduate teaching is central to ensure good quality research both in short and in long-term perspectives. However, as an affiliated institution, academic programmes at SSNCE are delivered with significant constraints. Within these constraints, various teaching and learning approaches are employed by faculty in their delivery. While traditional lectures and tutorials are the mainstay, student assignments and presentations too are widely used. These tasks

often expect the learners to go beyond the limits of prescribed syllabus. In order that students and faculty get industry perspectives, guest lectures are often organized.

To help the department in continuous improvement of teaching and learning, a Curriculum Advisory Committee has recently been constituted. The Committee has the following membership:

- Head of the Department - Chair
- Programme Coordinators
- Representatives from industry/R&D organizations (2)
- Representative from Anna University (1)
- Employer-representative (1)
- Alumni (2)

The Curriculum Advisory Committee is tasked with identifying gaps in individual courses and also in the overall programme and with suggesting measures for improvement, in the context of evolving national and international scenario. Considering the fact that teaching and academic assessment go hand-in-hand, the Department also reflects on its assessment strategy. The internal assessment methods of the institute till now have largely been influenced by the University's exam pattern. While there have been reasons for this (like the University publishing an exam results-based rank list of institutions, with the consequent need to train students to do well on those exams), as an academic organization continuously trying to improve the learning experience of its students, the Department has recently revised its assessment strategy, to the extent possible for an affiliated institution, by recommending the following ways of assessment to faculty:

- Tests (as currently done)
- Written assignments on topics that go beyond syllabus
- Oral presentations on topics that go beyond syllabus
- Take-home design problems
- Debates on general technology issues, for example mobile phone radiation hazards (for EMI/EMC course)

Faculty are free to choose one or several methods of assessment as appropriate to their course.

#### 34. Participation in Institutional Social Responsibility (ISR) and Extension activities

Sl. No.	Unit	Number of events and the approximate number of students participated during									
		2016-17		2015-2016		2014 – 15		2013 – 14		2012 - 13	
		Events	Participants	Events	Participants	Events	Participants	Events	Participants	Events	Participants
1	NSS	22	200	15	200	6	200	19	200	18	200
2	YRC	12	100	4	100	1	300	3	100	11	300

#### 35. SWOC analysis of the department and Future plans

##### Strengths:

- Qualified faculty with strong emphasis to research

- Excellent faculty retention ratio
- Meritorious and highly motivated students
- Technology-enabled classrooms
- Excellent academic ambience with thrust on scholarly research
- State-of-the-art research laboratories
- Graduates with excellent industry placements, University ranks and enrollment in higher education programs in top global universities
- Recognized Research Centre for pursuing quality research
- Progressive enrollment of full-time scholars with support through funded grants and fellowships
- Sponsored research grants from various National funding agencies and industry
- Publications in peer reviewed and highly indexed journals
- Seed grants by SSN Trust for promising research proposals from faculty and students
- Innovation centre and Incubation centre encourage students to innovate, design, implement and incubate startups

**Weaknesses:**

- Affiliating University limits introducing courses in new and emerging areas
- Improvement required in Industry Institute Interaction
- Limited placement opportunities in core industry
- Entrepreneurship initiatives to be strengthened

**Opportunities:**

- Demand within the country for quality higher education
- Excellent career development opportunities
- Interaction with National Institute of Ocean Technology (NIOT), Indira Gandhi Centre for Atomic Research (IGCAR), SAMEER, CSIR-CEERI and Tata Elxsi enabling the research grants and internships
- Possibility of industrial consultancy by faculty
- Scope for inter-disciplinary research

**Challenges:**

- To create continual visibility of research with industry
- To leverage the intellectual property generated for economic gain

**Future Plans:**

- To change the general perception as a private institute by government
- Supporting the Institute for earning autonomy/university status
- Commercialization of products developed through incubation
- Promote student and faculty exchange programs with other universities



## EVALUATIVE REPORT OF THE DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

1. Name of the department: **Computer Science and Engineering**
2. Year of Establishment: **1996**
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.):
  - **B.E. in Computer Science and Engineering**
  - **M.E. in Computer Science and Engineering**
  - **M.E. in Software Engineering**
  - **M.S., Ph.D. Computer Science and Engineering (By Research)**
4. Names of Interdisciplinary courses and the departments/units involved: **Nil**
5. Annual/ semester/choice based credit system (programme wise):  
**All programmes are by semester system only**
6. Participation of the department in the courses offered by other departments

Sl. No.	Department	Semester	Title of the Course
1	PG -ECE-AE	2 [R2013]	CP7103-Multicore Architecture
2	ECE	5 [R2008]	EC2302-Computer Organization & Architecture
3	BME	7 [R2008]	EC2352-Computer Networks
4	ECE	7 [R2013]	EC6008-Web Technology
5	PG -ECE-AE	2 [R2013]	CP7103-Multicore Architecture
6	IT	2 [R2013]	CS6201 - Digital Principles and System Design
7	ECE	6 [R2013]	CS6303-Computer Architecture
8	ECE	7 [R2013]	EC6008-Web Technology

7. Courses in collaboration with other universities, industries, foreign institutions, etc.  
**Nil**
8. Details of courses/programmes discontinued (if any) with reasons: **Nil**
9. Number of teaching posts

Programmes	Professor		Associate Professors		Assistant Professor	
	Sanctioned	Filled	Sanctioned	Filled	Sanctioned	Filled
UG – B.E. CSE	2	3	6	9	18	15
PG – M.E. CSE	2	2	4	3	-	1
PG – M.E. SE	1	1	2	1	-	1

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.,)

Sl. No.	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
1.	Dr. Chitra Babu	Ph.D.	Professor	CSE	23.11	6
2.	Dr. C. Aravindan	Ph.D.	Professor	CSE	24.9	11
3.	Dr. R. S. Milton	Ph.D.	Professor	CSE	30.3	3
4.	Dr. D.Venkatavara Prasad	Ph.D.	Professor	CSE	23	
5.	Dr. T.T. Mirnalinee	Ph.D.	Professor	CSE	24.4	11
6.	Dr. A.Chamundeswari	Ph.D.	Professor	CSE	24.7	1
7.	Dr. S. Sheerazuddin	Ph.D.	Asso. Prof.	Theoretical Computer Science	4.9	
8.	Dr. G. Raghuraman	Ph.D.	Asso. Prof.	CSE	14.9	3
9.	Dr. R. Kanchana	Ph.D.	Asso. Prof.	CSE	28.3	2
10.	Dr. V.S. Felix Enigo	Ph.D.	Asso. Prof.	CSE	18.6	1
11.	Dr. Shomona Gracia Jacob	Ph.D.	Asso. Prof.	CSE	7.8	6
12.	Dr. B. Bharathi	Ph.D.	Asso. Prof.	CSE	18.11	
13.	Dr. J. Suresh	Ph.D.	Asso. Prof.	CSE	22.1	4
14.	Dr. J. Bhuvana	Ph.D.	Asso. Prof.	CSE	18.4	
15.	Dr. S. Kavitha	Ph.D.	Asso. Prof.	CSE	18.11	
16.	Dr. P. Mirunalini	Ph.D.	Asso. Prof.	Multimedia Tech.	15.10	
17.	Dr. D. Thenmozhi	M.E.	Asso. Prof.	CSE	22.2	
18.	Dr. S. Saraswathi	Ph.D.	Asso. Prof.	CSE	13.8	
19.	Dr. K.Vallidevi	M.E.	Asso. Prof.	CSE	11.10	
20.	Ms. B. Prabavathy	M.E.	Asst. Prof.	CSE	20	
21.	Mr. V. Balasubramanian	M.E.	Asst. Prof.	CSE	19.5	
22.	Ms. S. Rajalakshmi	M.E.	Asst. Prof.	CSE	14	
23.	Mr. K.R. Sarath Chandran	M.E.	Asst. Prof.	CSE	12.7	
24.	Mr. B. Senthil Kumar	M.E.	Asst. Prof.	CSE	11.9	
25.	Mr. N. Sujaudeen	M.E.	Asst. Prof.	CSE	13.2	
26.	Ms. A. Beulah	M.Tech.	Asst. Prof.	CSE	12.8	
27.	Ms. S.V. Jansi Rani	M.Tech.	Asst. Prof.	Advanced Computing	12.8	
28.	Ms. M. Saritha	M.E.	Asst. Prof.	CSE	11.11	
29.	Ms. K. Lekshmi	M.E.	Asst. Prof.	CSE	9.9	
30.	Ms. R. Priyadarshini	M.E.	Asst. Prof.	CSE	14.9	
31.	Ms. S. Lakshmi Priya	M.E.	Asst. Prof.	CSE	7.3	
32.	Mr. H. Shahul Hameed	M.Tech.	Asst. Prof.	Distributed Computing Systems	7.11	
33.	Ms. S. Angel Deborah	M.E.	Asst. Prof.	Embedded System Technologies	5.9	
34.	Ms. K. Madheswari	M.E.	Asst. Prof.	Software Engineering	5.9	
35.	Ms. S. Manisha	M.E.	Asst. Prof.	CSE	4.4	
36.	Ms. Y.V. Lokeswari	M.E.	Asst. Prof.	CSE	6	

11. List of senior visiting faculty: **Nil**
12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: **Nil**
13. Student -Teacher Ratio (programme wise)

Sl. No.	Programme	Students	No. of Faculty	STR
1.	B.E. in CSE	360	24	1:15
2.	M.E. in CSE	72	6	1:12
3.	M.E. in Software Engineering	36	3	1:12

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

Sl. No.	Designation	Sanctioned	Filled
1.	Lab Technicians	7	7
2.	Administrative Staff, Attenders	3	3

15. Qualifications of teaching faculty with D.Sc./ D.Litt./ Ph.D./ M. Phil. / PG.

Sl. No.	Number of Faculty with Qualification			
	D.Sc./ D.Litt.	Ph.D.	M. Phil.	PG
1	-	19		17

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received

Sl. No.	Nature of Project	Number of Faculty
1	National	5

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received

Sl. No.	Faculty	Title of Project	Funding Agency	Amount (in Lakh of Rs.)		Date of Approval	Status
				Sanc tioned	Received		
2015 – 2016 External Funding							
1	Dr. Shomona Gracia Jacob	Investigation on the effect of Gene and Protein Mutants in the Onset of Neuro-Degenerative Brain Disorders(Alzhe	Science and Engineer ing research Board – Young Scientist Scheme-	16.10	6.86 (First install ment)	Sep. 2015	On going

		imer's Disease and Parkinson's Disease): A Computational study	External – DST				
2	Dr. Venkatavara Prasad Dr. J. Suresh	Projects using GPU computing	nVIDIA – 3 GPU	4.00	4.00	July 2015	On Going
3	Dr. T. Nagarajan, Dr. B. Bhararathi, Dr. P.Vijaya lakshmi S. Sasirekha	Speech enabled interactive enquiry system in Tamil	Tamil Virtual Academy	9.52	9.52	Feb 2016	On Going
4	Ms. K. Lekshmi	Classification and segmentation of nuclei in hepatocellular carcinoma and dysplastic tumors of Histopathology Images	Global Health City	-	-	June 2016	On Going
<b>2013 – 2014 External Funding</b>							
1	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	Oct. 2013	Completed
2	By Dept. Faculty and Students	No. of Internal Funded Projects - 45	SSN Trust	24.92	24.92	2011-till data	Project Completed Report Submitted

18. Research Centre /facility recognized by the University:

**The department has been recognized as a Research Centre by Anna University for doing research leading to MS/ Ph.D.**

## 19. Publications:

Sl. No.	Staff Name	Designation	Conf. Papers	Journal Papers	Citation Indices				
					Citation Index	SNIP	SJR	Impact Factor	H-Index
1.	Dr. Chitra Babu	Professor	29	12	3-49	0.504-1.013	0.11 – 1.28	0.2-1.00	6
2.	Dr. C. Aravindan	Professor	18	18	1-56	1.364-1.429	0.67-1.074	0.519-1.304	6
3.	Dr. R. S. Milton	Professor	9	4	1-5	0	0.32	1.05-1.577	3
4.	Dr. D. Venkatavara Prasad	Professor	10	7	1-11	0.308-0.668	0.16-0.213	0.28-0.524	1
5.	Dr. T. T. Mirnalinee	Professor	16	13	1-209	0.070-3.313	0.187-2.597	0.11-3.514	6
6.	Dr. A. Chamundeswari	Professor	20	3	1-15	0.504-1.013	0.208-0.494	0.31-0.68	2
7.	Dr. S. Sheerazuddin	Asso. Prof.	3	1	1	1.177	0.308	0.636	1
8.	Dr. G. Raghuraman	Asso. Prof.	12	6	1-12	0.194	0.318	0.647-1.665	1
9.	Dr. R. Kanchana	Asso. Prof.	26	6	1-7	0.04-0.08	0.14-1.28	0.4-1.43	3
10.	Dr. V.S. Felix Enigo	Asso. Prof.	13	4	1-9	0.865-1.158	0.31-0.673	0.701-1.00	2
11.	Dr. Shomona Gracia Jacob	Asso. Prof.	26	22	1-30	0.3 – 1.392	0.24-0.37	0.39-1.726	10
12.	Dr. B. Bharathi	Asso. Prof.	24	8	1-20	1.024-1.291	0.13-0.23	0.12-0.917	2
13.	Dr. J. Suresh	Asso. Prof.	16	8	1-25	0.214-0.776	0.15-0.43	0.13-0.8	3
14.	Dr. J. Bhuvana	Asso. Prof.	5	3	1-6	0.308-1.429	0.16-1.074	0.28-1.304	3
15.	Dr. S. Kavitha	Asso. Prof.	19	11	1 - 28	0 - 1.141	0.13 – 0.829	0.6 - 1.630	3
16.	Dr. P. Mirunalini	Asso. Prof.	10	2	0-3	0	0.16	0	2
17.	Dr. D. Thenmozhi	Asso. Prof.	15	8	1-14	1.364	0.13-0.67	0.12-0.962	3
18.	Dr. S. Saraswathy	Asso. Prof.	-	-	-	-	-	-	-
19.	Dr. K. Valli Devi	Asso. Prof.	14	4	6	0.308	0.16-0.53	0.16-0.2	2
20.	Ms. B. Prabavathy	Asst. Prof.	18	3	1-49	0.678	0.371	0.75 – 1.00	4
21.	Mr. V. Balasubramanian	Asst. Prof.	18	5	1-8	0.668	0.213	0.524	2
22.	Ms. S. Rajalakshmi	Asst. Prof.	10	2	2	0	0	0.752	1
23.	Mr. K.R. Sarath Chandran	Asst. Prof.	13	5	0-2	0	0.13-0.27	0.12-0.86	1
24.	Mr. N. Sujaudeen	Asst. Prof.	9	4	0	0	0.13	0.23	1
25.	Ms. S.V. Jansi Rani	Asst. Prof.	7	1	0-1	0.166	0.13	0	1

26.	Mr. B. Senthil Kumar	Asst. Prof.	-	1	0	0	0.13	0.12	0
27.	Ms. A. Beulah	Asst. Prof.	7	4	0	1.289	0.273	0	0
28.	Ms. M. Saritha	Asst. Prof.	8	1	0 - 1	0	0.27	0	1
29.	Ms. K.Lekshmi	Asst. Prof.	9	3	0	0	0.13	0.12 - 1.346	0
30.	Ms.R.Priyadharsini	Asst. Prof.	5	4	0-2	0.944	0.13-0.408	0.12-1.33	1
31.	Mr. H. Shahul Hamead	Asst. Prof.	3	2	0-13	0	0	0.569	1
32.	Ms. S. Lakshmi Priya	Asst. Prof.	1	3	0	0	0.15	0.23	0
33.	Ms. S. Angel Deborah	Asst. Prof.	8	5	3-7	0.635	0.32 -0.715	0.3-0.715	3
34.	Ms. K.Madheswari	Asst. Prof.	9	4	0	0	0.13	0.13-1.331	0
35.	Ms.S.Manisha	Asst. Prof.	7	1	0	0.223	0.034	0	0
36.	Ms.Y.V. Lokeswari	Asst. Prof.	5	1	0-13	0	0	0	1

\* Monographs:

Nil

\* Chapter in Books

Year of Publication	Chapter Authors	Title of the Book	Chapter Name	Publisher	ISBN
2014–15	Megha Vora, T.T. Mirmalinee	Handbook of Research on Artificial Intelligence Techniques and Algorithms	From Optimization to Clustering: A Swarm Intelligence Approach	IGI Global	ISBN13: 9781466672581 ISBN10: 1466672587 EISBN13: 9781466672598

\* Books Edited:

Nil

\* Books with ISBN/ISSN numbers with details of publishers:

Sl. No.	Faculty as Author/ Co-author	Title of the Book	Publisher
1	Dr. A. Srinivasan, Mr. J. Suresh	Cloud Computing A practical approach for learning and implementation	Pearson, ISBN 978-81-317-7651-3, 2014
2	Ms. S. Kavitha, Ms. B. Bharathi	Programming & Data Structures II	Magnus Publication, ISBN-13:978-81-927609-4-0,
3	Ms. S. Kavitha, Ms. B. Bharathi	Object Oriented Programming and Data Structures	Magnus Publication, ISBN-13:978-81-927609-3-3,
4	Ms. S. Kavitha, Mr. V. Balasubramanian	Theory of Computation	Sree Magnus Publication, ISBN-13:978-81-923533-4-0
5	Ms. D.Thenmozhi, Ms. V. Deepalakshmi	System Software	Sree Magnus Publications, ISBN-13:978-81-923533-4-0, 2012,

## 20. Areas of consultancy and income generated

Sl. No.	Faculty	Organization to which consultancy is offered	Area of consultancy	Amount earned (Rs)
<b>2016-17</b>				
1.	Dr. Chitra Babu Dr. Felix Enigo Ms. Prabavathy	Caterpillar India Pvt. Ltd, Chennai, India	Data visualisation	Nil
2.	Mr. K. R. Sarath Chandra Ms. Angel Deborah	Caterpillar India Pvt. Ltd, Chennai, India	Augmented reality	Nil
3.	Dr. Chitra Babu Mr. Shahul Hamead	Manatec, Puducherry	Kernel optimization	Nil
4.	Dr. Bharathi Dr. Bhuvana	Manatec, Puducherry	Reengineering Wheel balancer application in Java	Nil
5.	Dr. T. T. Mirnalinee, Dr. P. Mirunalini Ms. Priyadharshini	Manatec, Puducherry	Object detection with subpixel accuracy in IR images	Nil
6.	Mr. K. R. Sarath Chandran	Manatec, Puducherry	Windows 10 based application	Nil
7.	Dr. Chitra Babu, Dr. R. S. Milton	Vimana Technologies, Bengaluru	Critical comparison of machine learning frameworks	Nil
8.	Dr. Chitra Babu, Dr. T. T. Mirnalinee Dr. P. Mirunalini, Ms. R. Priyadharshini	Vimana Technologies, Bengaluru	Image Mosaicing	Nil
<b>2015-16</b>				
9.	Dr. Chitra Babu	Caterpillar India Pvt. Ltd, Chennai, India	Database Engine for Parallel Data Processing and Data Harvester	Rs. 87687.50
10.	Dr. R. Kanchana	Caterpillar India Pvt. Ltd, Chennai, India	Options Explorer using Modified Graph Search Algorithm	Rs. 54337.50
11.	Dr. R. Kanchana	Caterpillar India Pvt. Ltd, Chennai, India	Automated User Interface Harmonization in a multi-Source Big Streaming Scenario	Nil
12.	Dr. Felix Enigo	Manatec, Puducherry	Tyre pressure Monitoring system	Nil
13.	Dr. Chitra Babu Mr. Shahul Hamead	Manatec, Puducherry	Performance Enhancement Of CPU Intensive	Nil

			Applications Running On Raspberry Pi	
14.	Dr. T. T. Mirnalinee, Dr. shomona Gracia Jacob	Manatec, Puducherry	Object recognition	Nil
<b>2014-15</b>				
15.	Dr. Chitra Babu	Caterpillar India Pvt. Ltd	Benchmarking Real-Time Query Processing Solutions In Hadoop	Nil
16.	Dr. T. T. Mirnalinee	Caterpillar India Pvt. Ltd	Predicting Health Of A Machine Using Time Series Data	Nil
17.	Dr. V. Felix Enigo	Caterpillar India Pvt. Ltd	A Drive Context-Aware Web Browsing For Embedded Content	Nil
18.	Dr.T.T.Mirnalinee, Dr.R.Kanchana, Dr.V.S.Felix Enigo	ACI Systems and Automation, Chennai, India	Image processing applications	Nil

21. Faculty as members in a) National committees b) International Committees c) Editorial Boards

Sl. No.	Faculty	Committee	Period
1.	Dr. Chitra Babu	<ul style="list-style-type: none"> <li>• DC member, Anna university Syllabus Committee</li> <li>• Anna University Member of Board of Studies</li> <li>• PC member in ISEC 2015,</li> <li>• Member of ACM India Education Committee</li> <li>• Recognized by Microsoft Research Labs India as a champion of the Massively Empowered Classroom initiative</li> <li>• Ongoing interaction with Manatec Electronics, Pondicherry regarding consultancy work</li> <li>• Content reviewer for the course "Software Engineering" in UGC e-PG-Pathshala-Computer Science project</li> <li>• Participated in the signing of MoU between SSN Institutions and Caterpillar</li> <li>• Chief guest to inaugurate the National workshop on "Software Engineering Practices for Distributed Computing with Hands-on Training" organized by</li> </ul>	2011-2017



		the Department of Software Engineering at SRM University • Participated in the ACM India annual event at Trivandrum	
2.	Dr. C. Aravindan	• DC member • Anna University Syllabus Committee member	2012-2013 2014-2015 2015-2016 2016-2017
3.	Dr. R.S. Milton	• DC member • Anna university Technology Syllabus committee	2011-2012 2014-2015 2015-2016 2016-2017
4.	Dr. D.Venkatavara Prasad	• DC member • Instrumental in getting nVIDIA GPU Educational centre.	2014-2015 2015-2016 2016-2017
5.	Dr. T.T. Mirmalinee	• DC member • Anna university Syllabus Committee member • Reviewer for the journal IEEE Transaction on Geoscience and remote sensing • Member in Affiliation Inspection Committee, Anna University of Technology Chennai • Panel Member for the interview board to recruit CSE & IT faculty for Mohamed Sathak A.J. College Of Engineering	2011-2016 2016-2017
6.	Dr.A.Chamundeswari	• DC member	2016-2017
7.	Dr.R.Kanchana	• Reviewer for Advances in Electrical and Electronic Engineering Journal	2016-2017
8.	Dr. G. Raghuraman	• DC member	2016-2017
9.	Dr. Shomona Gracia Jacob	• Reviewer for Elsevier journals CBM,CPMB • Reviewer for Springer journals Amino Acids • Reviewer for Plos One Journal • Reviewer for Springer journal Amino acids (IF:3.5)and Plos One journal(IF:4.5) • Reviewer for AECE journal • DST-SERB Funded Project	2013-2016 2016-2017
10.	Dr.B.Bharathi	• Reviewer for Journal of Circuits, Systems, and Computer (JCSC) • Reviewer for International journal of Speech Technology	2012-2013 2016-2017
11.	Dr. J. Suresh	• DC Member • Instrumental in getting nVIDIA GPU Educational centre.	2014-2016 2016-2017

## 22. Student projects

Sl. No.	Academic Year	In-house Project (%)			Project done outside the college (%)		
		B.E.CSE	M.E.CSE	M.E.SE	B.E.CSE	M.E.CSE	M.E.SE
1	2011-2012	95.4	100	-	4.6	-	-
2	2012-2013	96.1	94.4	94.4	3.9	5.5	5.5
3	2013-2014	94.6	100	100	5.4	-	-
4	2014-2015	97.1	83.3	72.2	2.9	16.7	27.7
5	2015-2016	95.97	93.75	100	4.02	6.25	-
6	2016-2017	96.9	100	100	3.1	-	-

## 23. Awards / Recognitions received by faculty and students

Year	Name	Award type
2016-2017	Dr. Chitra Babu	Exemplary contribution in Promoting Education award from Redington – ‘SAHYOG’ Teacher Awards 2016
		Vice-Chair for ACM India Chennai Professional Chapter.
	Dr.Shomona Gracia Jacob	Young Woman In Engineering Award, by Venus International Foundation
	Dr. S. Kavitha	Outstanding Woman in Engineering, by Venus International Foundation
	Dr.A.Chamundeswari	Senior Educator and Scholar award from National Foundation for Entrepreneurship Development, Coimbatore
	Dr.Venkatavara Prasad	Senior Educator and Scholar award from National Foundation for Entrepreneurship Development, Coimbatore
2014 - 15	Dr.Shomona Gracia Jacob	Best Young Teacher Award by the GRABS Educational Charitable Trust.
2013 - 14	Dr. Chitra Babu, Mr. V. Balasubramanian Ms. S. Kavitha	MEC champion faculty
2012 - 13	Dr. D. Venkata vara prasad	CTS-Best faculty award
	Dr. T.T. Mirnalinee	Best paper award

## 24. List of eminent academicians and scientists / visitors to the department

2011-2012		
Academicians and scientists / visitors to the department for Guest Lectures		
Date	Speaker	Name of the Topic
29.09.2011	Mr. V. Sriram, Technical Specialist, CTS, Chennai	Data Mining and Warehousing
29.09.2011	Mr. S. Boobalan, CTS, Chennai	Design Patterns
13.10.2011	Mr. Saravanan Prabhakaran, Infosys, Chennai.	Ethical Hacking

20.10.2011	Ms. Sheetal Kale, Senior member, Education and Research team, Infosys, Chennai	SOA and Web Services
25.10.2011	Prof. Thiagarajan, Professor, CSE, National University of Singapore	Modeling of Cyber Physical Systems And Opportunities for PhD admissions at NUS, Singapore
13.12.2011	Mr. George Mathew Head, Exeter Software India, Bangalore	Software Engineering Principles: Implementation in the IT Industry
19.12.2011	Mr. V. Narayanan Delivery Manager, INFOSYS, Chennai	Web Designing
04.03.2012	Dr. S. Sivakumar, Prof. MSIT, SASE, SSNI	Software Testing and Tools
29.03.2012	Mr. R Rajagopalan Chief Architect, TATA Elxsi, Chennai	Embedded Systems and Applications
<b>Academicians and scientists / visitors to the department for workshops/ seminars/ conference</b>		
19.8.2011-20.8.2011	Dr.K.Muneeswaran, Prof/CSE, Mepco Schlenk Engineering College, Sivakasi.	Workshop on Image Processing and Pattern Recognition
	Dr. D. Loganathan, Prof/CSE, Pondicherry Engineering College, Pondicherry	
	Mr. B. Rajesh Kanna, AP/MCA, St. Josephs Engineering College, Chennai.	
	Dr.K.Vani, AP/IST,, CEG, Chennai	
	Dr. C. Chandrashekar, Prof/CSE, IIT-Chennai	
	Dr.R.Krishnamoorthy, Prof/CSE, AUT, Trichy	
	Dr.R.Bhaskaran, AP/CSE AU, Chennai	
15.3.2012	Mr.Rajesh Kanna, AP , VIT, Chennai	Workshop on "Image Processing"
17.3.2012	Mr.Guru moorthy, HCL, Chennai	Workshop on "Automation of Software Testing"
6.3.2012	Mr. Ramesh Parthasarathy, Mr. Srinivasan Renganathan, Mr. Venkatesh Thanuvan, Mr. Sathish Vaidyanadhan, Mr. Michael and Ms.Reeni. eBay	Wokshop on "X.Commerce Code Camp"
25.4.2012-27.4.2012	Dr. Zakaria Maamar, Professor, Zayed University, Dubai	An International Conference on "Recent Advances in Computing and Software Systems" (RACSS 2012)
	Dr. Manish Gupta, Director, IBM Research - India	
	Dr. Rajkumar Buyya ,Professor University of Melbourne, Australia	
	Mr. Sriram Rajamani, Assistant Managing Director of Microsoft Research India	

	Mr. Rajesh Ramachandran, Ramesh Parthasarathy, eBay India R&D Center	
	Dr. B. Vijayakumar, Associate Professor, BITS Pilani	
	Dr. S.Selvakumar, Professor, National Institute of Technology, Trichy	
	Dr.Ranjani Parthasarathy, Professor, Anna University, Chennai	
	Srihari Srinivasan, ThoughtWorks, Bangalore	
	Dr. Dinesh Ramegowda, HCL Technologies Ltd., Bangalore	
<b>2012-2013</b>		
<b>Academicians and scientists / visitors to the department for Guest Lectures</b>		
<b>Date</b>	<b>Speaker</b>	<b>Name of the Topic</b>
22.08.2012	Mr. E. IniyaNehru Senior Technical Director National Informatics Center, Chennai	Web Services in e-Governance
04.09.2012	Dr. K.Rangarajan, Founder, Man Machine Systems, Chennai	Testing Object-Oriented Software
06.09.2012	Sriram, V Senior Consultant, Cognizant Technology Solutions, Chennai	Lean Start- up
12.09.2012	Dr. Madhavan Mukund, Professor, Chennai Mathematical Institute	Automated Verification of Computing Systems
18.09.2012	Mr. T.P.Saravanan Mr. D. Harish , Infosys, Chennai.	Ethical Hacking
12.10.2012	Mr. Guruprasad Synacor Inc, NY, USA	Maintaining commercial online media platforms
28.11.2012	Dr. Sivakumar , Professor SASE, SSNI, Chennai	Architecture Description Languages and the notion of First Class Connectors
14.02.2013	Dr. Shankar Balachandran Prof., IIT Madras, Chennai	Programming Abstractions for Parallel Architectures
15.02.2013	Prof. Venkateswaran Director, WARFT, Chennai	Multicore Architectures – Design Issues
15.02.2013	Dr. Ranjani Parthasarathy Prof., Anna University, Chennai	Reconfigurable Architecture / GPU Architecture
15.02.2013	Dr. Madhu Mutyam Prof., IIT Madras	Network on Chip
16.02.2013	Dr. V.Kamakoti Prof., IIT Madras, Chennai	Architecture for Secure Systems Engineering
27.02.2013	Dr. Premkumar Devanbu, Dept of Computer Science, University California, USA	On the Naturalness of Software
<b>Academicians and scientists / visitors to the department for workshops/ seminars/ conferences</b>		
2.7.2012-7.2.2012	Dr. C. Chandrasekar, Mr. Deepak, Mr. Dileep, IITM	AICTE sponsored Staff Development Program

	Dr. T. V. Geetha, Dr. S. Sridhar, AU Dr. Janaki Meena, Velammal	on "Recent Trends in Machine Learning and Pattern Recognition"
14.7.2012	Mr. Deependra Shekawat, Technical Support & Community Engineer @ Eucalyptus Systems Inc	Deep Dive into Eucalyptus open Source
28.2.2013	Dr. S. Selvakumar, Professor, CSE, National Institute of Technology, Tiruchirappalli. Dr. S. Mary Saira Bhanu, Asso. Prof. CSE, National Institute of Technology, Tiruchirappalli. Dr. Chandrasekar, Professor, CSE, National Institute of Technology, Suratkal Dr. M.A.Maluk Mohamed, Principal, MAM College of Engg, Trichy Dr. S. Arivazhagan Principal, Mepco College of Engineering, Sivakasi Dr. Kannan Balasubramanian, Professor, ECE Mepco College of Engineering, Sivakasi Dr. Muneeswaran Prof. and Head, CSE, Mepco College of Engineering, Sivakasi Dr. S. Swaminathan, Asso. Professor, IST, CEG, Guindy, AU, Chennai	Workshop on "A Framework for Cyber Security in SOA"
14.2.2013-16.2.2013	Dr. Shankar Balachandran, Dr. John Jose, Dr. Madhu Mutyam, Dr. Kamakoti, Dr. C. Chandrasekar, ITM Dr. Ranjani Parthasarthy, Anna University, Dr. A.P.Shanthi, Anna University N. Venkateswaran, Director, WARFT Dr. Premanand Chandramani, Professor, SSNCE	Faculty Development Programme on "Recent advances in Computer Architecture" during February 14-16' 2013.
14.9.2012-15.9.2012	Ms.Anjali, Mr.Thirukumaran, Infosys, Coimbatore	Network Simulator (NS2)- Hands On Training

**2013-2014****Academicians and scientists / visitors to the department for Guest Lectures**

<b>Date</b>	<b>Speaker</b>	<b>Name of the Topic</b>
12.08.2013	KS Muthu Delivery Manager Parthiban Technology Architect, Infosys, Chennai	Mobile APP Development
16.08.2013	Mr. Santosh Durairaj, Infosys, Chennai	Object Oriented Paradigm
22.08.2013	Mr. Aswina Patro, Senior Technology Architect Infosys, Chennai	Cloud Computing
27.08.2013	Mr. Lokesh, Mr. Sridhar ,Global Mobile Testing Centre of Excellence, CTS, Chennai	Android App Development

21.10.2013	Prof. C. R. Subramanian, Institute of Mathematical Sciences, Taramani, Chennai	NP-hardness and coping with it
21.11.2013	Prof. S. P. Suresh, Chennai Mathematical Institute, SIPCOT, Chennai	Concurrent Data structures
14.02.2014	Dr. Puneet Bhateja, Assistant professor, Dhirubhai Ambani Institute of Information and Communication Technology, Gandhi Nagar	Formal methods for Automatic Test case generation
21.02.2014	Mr. G. Venkatesh Babu Director, Sigma, Chennai	Open Source Virtualization – 3D graphics and Animation Skills
25.02.2014	Prof. David West New Mexico Highlands University	Design Thinking for Software Development
24.03.2014 28.03.2014	Dr. Madhavan Mukund, CMI, Chennai	NP-Hard and NP-Complete Problems
<b>Academicians and scientists / visitors to the department for workshops/ seminars/ conferences</b>		
4.10.2013 -5.10.2013	Dr.T.V.Geetha, Prof, Anna University(CEG), Dr.Ranjani Parthasarathy, Prof, AU-CEG	Workshop on “1st workshop on Natural Language Processing”
	Dr.Radhika Mamidi, Asst. Prof, IIIT-Hyderabad	
	Mr.P.Diwakar, Director, Paytot Ltd, London, UK	
	Mr.Sobha.L, AU-KBC Research	
19.3.2014	Mr.S.Sudarsun, Research Scholar, IIT-Madras	2nd Workshop on Natural Language Processing.
	Dr.Ranjani Parthasarathy, Prof, AU-CEG	
19.7.2013- 20.7.2013	Mr.Narayanan.P, Mr.Sankar.S, TCS Mr.G.Jaganathan, Dy. Academic Manager, TCS	Faculty development program on Big data analytics
11.12.2013- 18.12.2013	Dr.Madhumutyam, Prof, IIT-M,Chennai, Dr.C.Chandrasekar, Prof, IIT-M	Faculty Development and Training Programme on "Computer Organization and Architecture"
17.2.2014	Dr. Madhavan Mukund, Prof. CMI, Chennai,	Workshop on Blended learning via Massively Empowered Classrooms for DAA course as per Anna University curriculum
	Dr. Viraj Kumar - Computer Science Engineering - PES University, Bangalore	
28.2.2014- 1.3.2014	Mr.Siddharth Kumar, Senior Software Consultant Mr. Prasanna, Srinivasan, Mr. Vigneshwaran T Mr. Mohit and Mr. Yashwanth Balaji, Software Consultants, Ascendant Technologies	Student Engagement Program on Industrial Perspective of Web Technologies
21.9.2013	Mr.Kiran Gangadharan, Walletkit Inc.	Python

14.2.2014- 15.2.2014	Mr. Pradeep Surisetty, IBM India, Bangalore. Mr. Muthu Muthiah, IBM India, Bangalore.	Workshop on "OpenStack"
<b>2014-2015</b>		
<b>Academicians and scientists / visitors to the department for Guest Lectures</b>		
<b>Date</b>	<b>Speaker</b>	<b>Name of the Topic</b>
04.08.2014	Mr. Carnelian Lamech CTS, Chennai, Mr. Somasundaram, CTS Chennai	Android Application Development
07.08.2014	Dr.R.Ramanujam, Professor, CSE, IMSc, Chennai	Feeling Secure: The need for formal proof
25.09.2014	Dr. Ashutosh Mohan	Science, Engineering, and Franz Kafka
11.11.2014	R. Aravind Hanasoge Technical Consultant / Wolfram Certified Trainer,WRI, USA, Ms.Sonali De Souza Intl Business Development Manager,WRI, USA.	Mathematica Software
20.11.2014	Prof. S.P.Suresh, CMI, SIPCOT, Chennai	Concurrent Data Structures
21.01.2015	Mr. Samir, COO, QuickPlay Media Pvt Ltd, Chennai	Latest technologies used in Mobile applications and Video on demand
27.01.2015	Dr. D.Janakiram Professor, CSE, IIT Madras, Chennai	Malleable OS Kernel for flexible customisation
29.01.2015	Dr. Meghana Nasre, Assistant Professor, CSE, IIT Madras, Chennai	Decremental all-pairs ALL shortest paths.
25.03.2015	Prof. G. Srinivasan, Dept of Management Studies, IIT Madras, Chennai	Simplex Methods
<b>Academicians and scientists / visitors to the department for workshops/ seminars/ conferences</b>		
11.11.2014	Dr. Aravind Hanasoge, Ms. Sonali de Souza ,Wolfram Research Institute, USA	A seminar on Mathematica Software
11.12.2014- 18.12.2014	Dr.Sriram Rajamani, Microsoft Research India, Dr.MeghanaNasre, IIT-Madras, Dr.Madhavan Mukund, CMI, Dr.Rahul.S.Marathe,IIT-M	FDP on "Design and Analysis of Algorithms
7.1.2015	Prof.K.Subramanian, Advanced Center for Informatics and Innovative Learning, IGNOU	Seminar on " Cyber Security"
20.1.2015	Muthukumar.G, Prithviraj,Dinesh Kumar ATargetsoft System, Chennai	Android App Development Workshop
6.3.2015- 7.3.15	Mr. Pankaj Singh, Finlands Lab	Workshop on Big Data and Hadoop
27.2.2015	Dr.P.Nithyanandan, VIT, Chennai, Mr.S.Karthick, Image Processing Lab, IITM	Workshop on Challenges in Image Mining : A Research Perspective
20.2.2015- 20.2.2015	Dr.Sourish Das, CMI, Dr.Vijay Srinivas, Impetus Tech, Bangalore	A National Conference on Distributed Machine Learning(NCDML 2015)



13.8.2014-14.8.2014	Mr. Arvin Kumar, Mr. Arjun Sheshadry, Mr. Prakash Dhanapal, Team Member, Zoho Corporation	Android Sensor programming
	Mr. Sriram Narasimhan, Mr. Shankaralingam Gomes - Technical Lead, Mr. Naveen Bezawada, Mr. Dhilip Seshadri Kumar - Mobile App Developer, Trimble Information Technologies India Pvt Ltd	
10.2.2015	Mr. Arvindram, Thoughtworks	Go Lang Workshop
<b>2015-2016</b>		
<b>Academicians and scientists / visitors to the department for Guest Lectures</b>		
<b>Date</b>	<b>Speaker</b>	<b>Name of the Topic</b>
17.07.2015	Mr. Vaidyanathan, Founder and CEO, Classle Knowledge, Pvt. Ltd. Chennai	Online Digital Reputation – a Key to Success in Flat World
05.08.2015	Mr. Milan Kumar, Mr. Tamil Venthana, Mr. Arul CTS, Chennai	Mobile App Development -Latest Technologies
24.09.2015	Dr. R.Ramanujam, Professor, CSE, IMSc, Chennai	Does having a teacher help us learn (at least ToC) ?
12.10.2015	Dr. Jeyakesavan Veerasamy, Director of Center for Computer Science, Education & Outreach Teaching Faculty Department of Computer Science the University of Texas Dallas, USA.	1. Enjoyable introduction to Programming through Drawing & Animation - Highlights. 2. Learning CS Concepts through real-life analogies
23.11.2015	Dr. Madhavan Mukund, CMI, Chennai	Concurrent Queues and Stacks
<b>Academicians and scientists / visitors to the department for workshops/ seminars/ conferences</b>		
4.3.2016	Prof. Madhavan Mukund, IIT	"Boole and Computer Science"
12.2.2016	Dr. S. Chitrakala, AP/CSE, CEG AU, Chennai	One day National level Seminar on " Predictive Analytics - Big Data and Health Care"
	Ms. Geetha Manjula, Big Data Engineer, Paypal	
	Dr. Bharadwaj Kumar, AP/SCSE, VI, Chennai	
15.10.2015-17.10.2015	Dr. Sourav Chakraborty (CMI)	Workshop on Advanced Data Structures and Algorithms
	Dr. N. Sadagopan (IIITDM)	
	Dr. V. Uma Maheswari, Professor Anna University	
	Dr. S. P. Suresh (CMI)	
18.3.2016-19.3.2016	Dr. Karthikeyan Vaiapuri, Scientist R&D, TCS	National conference on Internet of Things and Data Analytics IoTDA2016
	Mr. Seshidar Dongre, Head/IOT, L&T	
	Prof. Sudip Misra, IIT Kharagpur	



	Mr.Chandrasekaran Vasudevan, Head/Emerging Tech, Ericsson India Pvt Ltd	
18.9.2015- 19.9.2015	Dr.B.Srivathsan, Dr.M.K.Srivas, CMI	Workshop on "Model Checking"
22.2.2016- 23.2.2016	Dr.Shobha.L, AU-KBC	3rd Workshop on Natural Language Processing
	Dr. Anand Kumar.M, Amrita University	
	Dr.Sourish Das, CMI	
25.1.2016- 29.01.2016	Dr. Srinivasan G-IITM, Dr. Venkatesh Raman-IMSc, Dr. R. Ramanujam-IMSc, Dr. Meghana Nasre-IITM, Dr. S. Muralidharan-TCS, Dr. Uma Maheswari.V-AU, Dr.Sayan Bhattacharya-IMSc	Faculty Development Program on "Design and Analysis of Algorithms"
28.10.2015	Dr.Vijayakumar, IIITDM, Dr.Chandrasekaran, IITM	Workshop on "How to write a research paper?"
<b>2016-2017</b>		
<b>Academicians and scientists / visitors to the department for Guest Lectures</b>		
<b>Date</b>	<b>Speaker</b>	<b>Name of the Topic</b>
18.07.2016	Mr. Ganesh Sankaralingam, Director LatentView Analytics, Chennai	Three pillars of analytics
27.07.2016	Dr. Ashish Ghosh, Prof. & former Head, Centre for soft computing research, Indian Statistical Institute, Kolkatta	Machine Learning
16.08.2016	Dr. Nishanth Chandran Microsoft India Bangalore	Cryptographic techniques for cloud security challenges
16.09.2016	Dr. Raj Ramesh Top Sigma Consulting Bloomington, IL, USA	Recent trends – Digital architecture for business transformation
02.02.2017	Ms. Malathy Murugan Senior Manager, Capgemini Technology services India Ltd, Chennai	IoT Frameworks
14.02.2017	Mr. Gururaj Narayanan Amazon, Chennai	Trends in automotive telematics and in-vehicle infotainment
<b>Academicians and scientists / visitors to the department for workshops/ seminars/</b>		
28.7.2016- 29.7.2016	Mr.Seshan.R, , Mr.Thiageshwaran.D ,Zoho Corporation	Embedded Software Development
6.9.2016- 16.6.2016	Dr.P.Vanchinathan, VIT, Chennai, Dr.N.Shanthi, Nanda Engg. College, Erode, Mr.V.Ranjith Kumar, Jerusalem College of Engineering, Chennai, Mr.Ananda Narayanan, TCS,	FDTP - Cryptography and Network Security

5.8.2016	Dr.Ramanujam .R, IMSC, Dr.Madhav Mukund, CMI	Two day workshop on "Computational thinking" for I year CSE students.
30.9.2016- 1.10.2016	Dr. Sridhar S , AU, Dr.Chandrasekhar.C,IITM	Two day workshop on "Machine Learning in Intelligent Image Processing"
25.3.2017	Mr.Hari Shankar, Zoho Corporation	Machine Learning Workshop
25.2.2017	Mr.Satish Palaniappan (Real Image Technologies)	Python Programming
20.2.2017	Dr. Moses Inbaraj, MCC, Chennai Dr. Vijayalakshmi, VIT, Chennai	Research Methodology
22.3.2017	Mr.Anand Sankaran, Director insurance, Mr. Srinivasan, Senior Director, CTS, Chennai, Mr Ganesh , TCS Digital Enterprise, Chennai, Mr Ram sundar, Mr. Balaji, Mr Vijay, TCS Digital Enterprise, Chennai.	CSI Project Colloquium
26.9.2016	Mr.Dakshinamoorthy, Datawarehouse Developer, CTS, Chennai	Talk on Innovation in Industry and Data Warehouse Concept

## 25. Seminars/ Conferences/Workshops organized &amp; the source of funding

Sl. No.	Conference Theme	Date	Any other contributory Institute / Industry
1.	Workshop on "Image Processing"	15.03.2012	CSI
2.	An International Conference on "Recent Advances in Computing and Software Systems" (RACSS 2012)	25.04.2012	SSN Trust & CTS
3.	AICTE sponsored Staff Development Program on "Recent Trends in Machine Learning and Pattern Recognition"	02.07.2012	AICTE
4.	Deep Dive into Eucalyptus open Source	14.07.2012	SSN Trust
5.	Workshop on " Android Hackathon" on 2nd February 2013. The speakers are Mr Anand.S and Mr Brighton V(SSNCSE Alumni 2006-10)	02.02.2013	ACM
6.	Open Source Conference on "OS Ready Conference"	06.02.2013	ACM
7.	Workshop on "Python Programming"	21.09.2013	ACM
8.	Faculty Development and Training Programme on "Computer Organization and Architecture"	11.12.2013	Anna University
9.	Workshop on "OpenStack"	14.02.2014	IBM India
10.	Workshop on Blended learning via Massively Empowered Classrooms for DAA course as per Anna University curriculum	17.02.2014	Microsoft, SSN Trust
11.	Student Engagement Program on Industrial	28.02.2014	Ascendas

	Perspective of Web Technologies		Technologies
12.	ACM India Eminent Speaker Programme "Efficient Processing of Range Queries"	24.09.2014	ACM
13.	FDP on "Design and Analysis of Algorithms	11.12.2014	Anna University & Microsoft
14.	Android App Development Workshop	20.01.2015	CSI
15.	A National Conference on Distributed Machine Learning (NCDML 2015)	20.02.2015	SSN Trust
16.	Workshop on Big Data and Hadoop	03.06.2015	IIT Roorkee and Finland's Lab
17.	Workshop on Uyir Nokkam	14.07.2015 to 16.07.2015	SSN Trust and Isha Foundation, Coimbatore
18.	Python and Machine Learning Workshop	18/09/2015, 19/09/2015	SSN-ACM
19.	Workshop on Advanced Data Structures and Algorithms	15.10.2015- 17.10.2015	SSN Trust
20.	Workshop on "How to write a research paper?"	28.10.2015	SSN –CSI
21.	Faculty Development Program on "Design and Analysis of Algorithms"	25.01.2016- 29.01.2016	ACM India Education Committee
22.	One day National level Seminar on " Predictive Analytics - Big Data and Health Care"	12.02.2016	SSN Trust
23.	Workshop on "LaTeX Software"	17.02.2016, 18.02.2016	SSN-CSI
24.	National conference on Internet of Things and Data Analytics IoTDA 2016	18.03.2016, 19.03.2016	SSN Trust
25.	ACM Design Meetup	30.03.2016	SSN-ACM
26.	Embedded Software Development	28.07.2016 -29.07.2016	SSN Trust
27.	FDTP - Cryptography and Network Security	6.9.2016- 16.6.2016	Anna University, SSN Trust
28.	Workshop on Upa Yoga	20.06.2016	Isha Foundation, Coimbatore
29.	Two day workshop on "Computational thinking" for the I year CSE students.	5.8.2016	SSN Trust
30.	An event titled "coding for placements"	22.8.2016	SSN-CSI
31.	Two day workshop on "Machine Learning in Intelligent Image Processing"	30.9.2016- 1.10.2016	SSN Trust
32.	Two-Day National Workshop on "‘Computational Platforms for Research in Bioinformatics: Challenges at the Interface of Computer Science and Biology'".	25.03.2017	SSN Trust
33.	Latex Workshop	2.11.2017	IEEE -CSI
34.	Research Methodology	20.2.2017	IEEE, ACM, CSI
35.	CSI Project Colloquium	22.3.2017	CSI
36.	Coding for Placement	22.8.2016	CSI
37.	Reverse coding and content writing	19.9.2016	CSI

38.	Technical Aptitude and Puzzle Solving	29.8.2016	CSI
39.	Talk on Innovation in Industry and Data Warehouse Concept	26.9.2016	CSI

## 26. Student profile programme/course wise:

Name of the Course/ programme	Academic Year	Applications received (Mgmt. Quota)	Selected (Mgmt + SWS + LE)	Enrolled		Pass percentage
				M*	F*	
B.E. (CSE)	2012-2013	3640	120	65	55	-
	2013-2014	3360	120	66	54	-
	2014-2015	3450	120	59	61	-
	2015-2016	4140	120	64	56	-
	2016-2017	4500	137	78	59	-
M.E. (CSE)	2012-2013	70	32	4	28	-
	2013-2014	71	36	9	27	-
	2014-2015	58	34	12	22	-
	2015-2016	35	36*	9	27	-
	2016-2017	82	19	4	15	-
M.E. (SE)	2012-2013	9	18	11	7	-
	2013-2014	4	17	6	11	-
	2014-2015	2	12	0	12	-
	2015-2016	3	12	1	11	-
	2016-2017	82	0	0	0	-

\* Including government quota

## 27. Diversity of Students

Name of the Course	Year	% of students from the same state	% of students from other States	% of students from abroad
B.E. (CSE)	2011-2012	93.18	6.82	-
	2012-2013	95.27	4.73	-
	2013-2014	94.56	5.44	-
	2014-2015	97.26	2.74	-
	2016-2017	96.75	3.25	-
M.E. (CSE)	2011-2012	100	-	-
	2012-2013	100	-	-
	2013-2014	100	-	-
	2014-2015	100	-	-
	2016-2017	89.47	10.53	-
M.E. (SE)	2012-2013	100	-	-
	2013-2014	100	-	-
	2014-2015	100	-	-
	2016-2017	-	-	-

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Sl. No.	Year	No. of Students		
		GRE/TOEFL	GATE	CAT
1	2016-2017	21	3	2
2	2015-2016	27	-	-
3	2014-2015	15	1	-
4	2013-2014	15	3	-
5	2012-2013	19	-	-
6	2011-2012	9	1	4
7	2010-2011	17	3	1

29. Student progression

Student progression	Against % enrolled											
	2011-12		2012-13		2013-14		2014-15		2015-16		2016-17	
UG to PG	8.5		12.9		18.4		10		15.06		9.2	
PG to Ph.D.	12.5		2.8		4		2.9		3.2		-	
Ph.D. to Post-Doctoral	-		-		5		-		-		-	
<b>Employed</b>	<b>UG</b>	<b>PG</b>	<b>UG</b>	<b>PG</b>	<b>UG</b>	<b>PG</b>	<b>UG</b>	<b>PG</b>	<b>UG</b>	<b>PG</b>	<b>UG</b>	<b>PG</b>
• Campus selection	95.83	85.18	100	53.33	100	50	90.65	73.8	88.46	68.57	85.7	43
• Other than campus recruitment	4.17	14.82	0	46.67	0	50	9.35	26.2	11.54	31.43	-	-
Entrepreneurship/Self-employment	3.3		5		5		3.3		-		-	

30. Details of Infrastructural facilities

a) Departmental Library (Department)

Area of library : 58 sq.m

Staff In – Charge : Dr. B. Bharathi & Ms. K. Lekshmi

Books Worth : Rs.11,62,500/-

Sl. No.	Year	Titles	Total Books	Cumulative Total
1	2011-12	198	301	2292
2	2012-13	152	199	2491
3	2013-14	56	100	2591
4	2014-15	58	107	2698
5	2015-16	79	166	2864
6	2016-17	12	31	2895

## b) Internet facilities for Staff &amp; Students

**Internet facilities are available for all faculty and students 24 x7;**

Name of the service provider: **M/s. Airtel and M/s. Aircel**; Available Bandwidth: (155+155) **310 Mbps**

## c) Class rooms with ICT facility: Each class room is provided with a lap top, LCD Projector, Screen, Black Board

<b>Classroom Facilities</b>	<b>UG</b>	<b>PG</b>
No. of Rooms / Area/Capacity	6 / 115 sq.m /cap 75	6 / 48 sq.m /cap 18

## d) Laboratories

<b>Sl. No.</b>	<b>Name of the Laboratory</b>	<b>Area (Sq.m) /No of students</b>	<b>Investment in Rs.</b>
1	OS & Network Programming Lab	87/33	30,47,788
2	System Programming Lab	106/27	32,99,469
3	Software Engineering Lab	137/37	26,94,402
4	Windows Programming lab	137/35	12,63,497
5	Graphics & Multimedia Lab	137/35	30,99,524
6	Java Technology Lab	137/37	22,27,303
7	Hardware Lab	91/33	27,27,283
8	High Performance Computing Lab	137/Research	8,46,674
9	SSN-CTS Open Source Lab	137/Research	13,98,770
10	PG Lab I	137/Project	15,22,790
11	PG Lab II	87/20	9,91,700
12	PG Lab III	79/27	12,24,618

31. Number of students receiving financial assistance from college, university, government or other agencies

**B.E. – CSE**

<b>Trust / Govt.</b>	<b>Number of students provided with financial assistance in</b>					
	<b>2016-17</b>	<b>2015-16</b>	<b>2014-15</b>	<b>2013-14</b>	<b>2012-13</b>	<b>2011-12</b>
By SSN Trust	38	66	68	79	76	80
By Government	38	69	59	53	34	13

**M.E. - CSE**

<b>Trust / Govt.</b>	<b>Number of students provided with financial assistance in</b>				
	<b>2016-2017</b>	<b>2015-2016</b>	<b>2014-15</b>	<b>2013-14</b>	<b>2012-13</b>
By SSN Trust	-	-	-	6	6
By Government	8	11	15	12	7

**M.E. – Software Engineering**

Trust / Govt.	Number of students provided with financial assistance in				
	2016-2017	2015-2016	2014-15	2013-14	2012-13
By SSN Trust	-	-	-	1	-
By Government	5	5	5	6	3

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts:

Sl. No	Date	Module Description (Title)	External expert
1.	20.09.2014	Workshop "Big data on Hadoop" organized by ACM Student Chapter in commemoration of Software Freedom Day.	Mr. Harishankar of Zoho Corporation
2.	24.09.2014	ACM India Eminent Speaker Programme "Efficient Processing of Range Queries"	Prof. Madhavan Mukund, Professor and Dean of Studies, Chennai Mathematical Institute
3.	20.08.2014	Android App Development Workshop	Mr. Muthukumar, Prithiviraj from industry
4.	17.02.2014	Workshop on Blended learning via Massively Empowered Classrooms for DAA course as per Anna University curriculum	Dr. Madhavan Mukund (Professor & Dean of Studies, CMI), Dr. Viraj Kumar (Professor, PESIT Bangalore)
5.	21.09.2013	Workshop on "Python Programming"	Mr. Kiran G, WalletKit, Inc. Chennai
6.	06.02.2013	Open Source Conference on "OS Ready Conference"	Tenth planet technologies.
7.	15.03.2012	Workshop on "Image Processing"	Mr. Rajesh Khanna, VIT, Chennai Mr. Chiranjoy, Research Scholar, CSE, IIT Madras, Chennai
8.	17.03.2012	Workshop on "Automation of Software Testing"	Gurumoorthy Paulraj, HCL, Chennai Ms. Sivasanakari Veerappan, HCL, Chennai
9.	12.02.2016	One day National level Seminar on "Predictive Analytics - Big Data and Health Care"	Dr. S. Chitrakala, AP/CSE, CEG AU, Chennai Ms. Geetha Manjula, Big Data Engineer, Paypal, Dr. Bharadwaj Kumar, AP/SCSE, VI, Chennai
10.	18.09.2015 & 19.09.2015	Workshop on "Model Checking"	Dr. B. Srivathsan, Dr. M. K. Srivas, CMI

11.	28.10.2015	Workshop on "How to write a research paper?"	Dr.Vijayakumar, IIITDM, Dr.Chandrasekaran, IITM, Dr. R.Srinivasan, SSNCE
12.	12.10.2015	1. Enjoyable introduction to Programming through Drawing & Animation - Highlights 2. Learning CS concepts through real-life analogies	Dr. Jeyakesavan Veerasamy Director of Centre for Computer Science Education & Outreach Teaching Faculty Department of CS, University of Texas Dallas, USA.
13.	21.06.2016	Workshop on Upa Yoga	Isha Foundation, Coimbatore
14.	16.7.2016	Mock Interview	SSN Final Year Students
15.	18.07.2016	Guest lecture on “Three pillars of analytics”	Mr. Ganesh Sankaralingam Director LatentView Analytics, Chennai
16.	27.07.2016	Guest lecture on “Machine Learning”	Dr. Ashish Ghosh Prof. And former Head, Machine Intelligence Unit In-charge Centre for soft computing research, Indian Statistical Institute, Kolkatta
17.	16.08.2016	Guest lecture on “Cryptographic techniques for cloud security challenges”	Dr. Nishanth Chandran Microsoft India Baglaore
18.	16.09.2016	Guest lecture on “Recent trends – Digital architecture for business transformation”	Dr. Raj Ramesh Top Sigma Consulting Bloomington, IL, USA
19.	26.9.2016	Talk on Innovation in Industry and Data Warehouse Concept	Mr.Dakshinamoorthy, Datawarehouse Developer, CTS, Chennai
20.	08.12.2016	C++ STL Workshop	BE - CSE Final year students
21.	02.01.2017	FOSS Workshop	IIT, Chennai
22.	02.01.2017	Object Tracking Bot workshop	IIT, Chennai
23.	02.02.2017	Guest lecture on “IoT Frameworks”	Ms. Malathy Murugan Senior Manager, Capegemini Technology services India Ltd, Chennai
24.	02.02.2017	Sci-Tech Quiz	Mr. Rajan
25.	14.02.2017	Guest lecture on “Trends in automotive telematics and in- vehicle infotainment”	Mr. Gururaj Narayanan Amazon, Chennai
26.	15.02.2017 & 16.02.2017	CISCO Network Security	Madras Institute of Technology, Chennai
27.	11.02.2017	Ethical Hacking and Whatsapp	Madras Institute of



		Security	Technology, Chennai
28.	09.02.2017 & 10.02.2017	Machine Learning Techniques for Image based applications	SSN College of Engineering
29.	10.02.2017 & 11.02.2017	IEEE- Arduino Workshop	Madras Institute of Technology, Chennai
30.	11.02.2017	Latex Worskhop	Dr. R.S.Milton, Professor , Dr. S. Sheerazuddin, Associate Professor, Dr. R.Kanchana, Associate Professor, Dr. J.Suresh, Associate Professor, Dr.K.Vallidevi, Associate Professor, CSE, SSNCE
31.	20.2.2017	Research Methodology	Dr. R. Ramanujam, IMSc, Chennai, Dr. Moses Inbaraj, MCC, Chennai, Dr. Vijayalakshmi, VIT, Chennai
32.	24.02.2017 & 25.02.2017	Python Programming Workshop	SSN College of Engineering
33.	25.2.2017	Python Programming	Mr.Satish Palaniappan (Real Image Technologies)
34.	22.3.2017	CSI Project Colloquium	Mr.Anand sankaran, Director insurance, CTS, Chennai, Mr. Srinivasan , Senior director, CTS, Chennai, Mr Ganesh , TCS Digital enterprise, Chennai Mr Ram sundar, TCS Digital enterprise, Chennai Mr. Balaji, TCS Digital enterprise, Chennai Mr Vijay, TCS Digital enterprise, Chennai.
35.	25.3.2017	Machine Learning Workshop	Mr.Hari Shankar, Zoho Corporation

### 33. Teaching methods adopted to improve student learning

- The entire campus is Wi-Fi enabled; the faculty provide the lecture to be given, well in advance in the Intranet, Departmental web portal - <http://www.ssn.net/twiki/bin/view/CseIntranet/CseElearning>
- Seminars in content beyond syllabus & Hands on experience workshops are conducted.
- Regular invited talks by experts from various industries and academia exclusively for students
- By allowing students to organize National level technical symposium every year

- By giving innovative academic projects
- The laboratories are available, on request, after college hours for students to experiment and explore
- The large number of books and journals are available in the library, which are available for access at least 12 hours per day; the library also supports actual lectures by eminent people in the form of videos, such as, NPTEL courseware, MEC courseware, Anna University EduSat, etc.,
- In addition to the student chapters of IEEE, CSI and ISTE, ACM and Association, I-Cell chapters have been introduced to encourage students by conducting workshops/seminars etc.
- Regular industrial visits are arranged to various places like: IGCAR, IMSc, NIC, BSNL, CVRDE-DRDO, CSIR, Cognizant, Infosys, Thoughtworks, MAPLES – ESM Technologies, etc.

#### 34. Participation in Institutional Social Responsibility (ISR) and Extension activities

Sl. No.	Name of the Event	Date	Venue	No. of Volunteers participated
1.	Samudhay – village survey	12.10.14	Poondi & Mullipakkam Village	50
2.	Election Awareness campus ambassador training	14.10.14	Chengalpet	2
3.	Eureka – child run	16.11.14	Marina Beach	50
4.	Youth Day Meet	07.01.15	Vel's University	15
5.	Organic Village visit	07.02.15	Vengambakkam	57
6.	NSS orientation to Volunteers	26.03.15, 27.03.15	PA College of Engg. & Tech.	5
7.	Orphanage Visit	04.04.15	Good Life centre-Tambaram	15
8.	Conference on Volunteerism	12.04.15	IIT Madras	4
9.	IIT Madras Open House	18.04.15	IIT Madras	10
10.	ECO Walk	19.04.15	Nagalapuram, A.P.	25
11.	Study camp on 'Child and Drug abuse	05.08.16	SSN CE	5
12.	Eye Camp	06.09.16	SSN CE	4
13.	Blood donation	15.09.16	SSN CE	4
14.	Campus cleaning camp	28.09.16	SSN CE	7
15.	Orphanage visit	02.10.16	Arul illam, Kolapakkam	7
16.	Village camp	26.01.17-28.01.17	Siruthavur, Kancheepuram Dt.	2
17.	Stem cell registration campaign	11.02. 17	SSN CE	5
18.	Beach Cleaning	18.02.17	Marina beach, Chennai	7
19.	Hospital cleaning	19.02.17	Kilpauk Govt. Hospital	7
20.	Blood donation	28.02.17	SSN CE	4
21.	Smart India Hackathon	01.04.17 &	SSN College of Engineering, Chennai,	42

		02.04.17	Jaipur Engineering College and research center, Jaipur, Chandigarh group of Colleged, Chandigarh Mar Baselios Institute of Technology and Science, Cochin	
22.	Orphanage visit	04.03.17	Annai Fathima illam, Karapakkam	7
23.	Campus cleaning	04.04.17	SSN CE	9

### 35. SWOC analysis of the department and Future plans

#### Strengths:

- Highly qualified and dedicated faculty
- Excellent faculty retention rate
- Rigorous learner-centric teaching
- State-of-the-art infrastructure
- Technology-enabled classrooms with state-of-the-art teaching aids
- A dedicated department library comprising books that cater to curricular and research requirements
- Active research and co-curricular activities
- Innovation centre and incubation centre established to motivate students to innovate, design, implement and incubate startups
- Recognized as nodal centre for research by Anna University
- Research grant by SSN Trust for deserving projects of faculty and students
- Merit based admissions
- Competent students with coveted placements in leading software firms
- Alumni pursuing higher studies at renowned universities abroad
- Providing guidance for framing the curriculum and syllabus related to the introductory programming courses
- Increased interaction with industries through MoUs

#### Weaknesses:

- Lack of autonomy in introducing new subjects, especially in inter-disciplinary areas due to affiliation status
- Inability to factor in considerable weightage for creative assignments during internal assessment due to adherence to the procedures of the affiliating university

**Opportunities:**

- Pursuing student internships on industry-relevant projects.
- Improving Faculty engagement in Industrial consultancy
- Training the faculty of tier II and III colleges on fundamental subjects as well as on emerging areas to strengthen the Computer science education in India

**Challenges:**

- Retaining the emphasis on good teaching practices while striving for excellence in research and consultancy
- Obtaining large-scale research grants from national funding agencies

**Future Plans:**

- Introducing additional programmes and courses catering to the emerging trends in computing with industrial collaboration
- Conducting more society relevant outreach programmes for employees in various governmental organizations and school children from rural backgrounds
- Commercialization of products developed through incubation
- Developing a GPU cluster lab for Data Analytics

## EVALUATIVE REPORT OF THE DEPARTMENT OF INFORMATION TECHNOLOGY

1. Name of the department      **Information Technology**
2. Year of Establishment      **1999**
3. Names of Programmes / Courses offered

Level	Programme of Study	Year of Establishment
UG	B.Tech. in Information Technology	1999-2000
PG	M.E. in Computer & Communication#	2005-2006
PG	M.Tech. in Information Technology	2013-2014
Ph.D.	Information and Communication Engineering	2010-2011

# M.E. in Computer & Communication programme has been renamed as M.Tech. in Information Technology

4. Names of Interdisciplinary courses and the departments/units involved - **NIL**
5. All Programmes by Semester System only
6. Participation of the department in the courses offered by other departments

Sl. No.	Department	Semester	Title of the Course
1	ECE, BME, Civil	ODD	GE6151- Computer Programming
2	ECE, BME, Civil	ODD	GE6161- Computer Practices Laboratory
3	ECE	ODD	EC6301- Object Oriented Programming and Data Structures
4	ECE	ODD	EC6312- OOPS and Data Structures Laboratory
5	ECE	EVEN	VL9213- Solid State Device Modeling and Simulation (PG)
6	ECE	EVEN	VL7008- Design of Semiconductor Memories (PG)
7	EEE	EVEN	CS6456- Object Oriented Programming
8	EEE	EVEN	CS6461-Object Oriented Programming Laboratory
9	BME	ODD	EC6301-Object Oriented Programming and Data Structures
10	BME	ODD	EC6312- OOPS and Data Structures Laboratory
11	CHE	EVEN	GE6263-Computer Programming Laboratory

7. Courses in collaboration with other universities, industries, foreign Institutions, etc. **NIL**
8. Details of courses/programmes discontinued (if any) with reasons - **NIL**

## 9. Number of teaching posts

Programme	Designation	Sanctioned	Filled
UG	Professors (P)	2	2
	Associate Professors (ASP)	5	10
	Assistant Professors (AP)	17	15
PG	Professors (P)	1	1
	Associate Professors (ASP)	1	1
	Assistant Professors (AP)	1	1

## 10. Faculty profile with name, qualification, designation, specialization

Sl. No.	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided in the last four years
1	Dr. T. Nagarajan	Ph. D.	Prof. & Head	Speech Signal Processing	26.4	6
2	Dr. R. Srinivasan	Ph. D.	Prof.	VLSI	16.8	8
3	Dr. A. Shahina	Ph. D.	Prof.	Speech Processing	17.11	4
4	Mr. V. Sivamurugan	M. E.	Asso. Prof.	Electronics Engg.	15.2	--
5	Dr. T. Sree Sharmila	Ph. D.	Asso. Prof.	Image processing	11.9	9
6	Dr. S. Chithra	Ph. D.	Asso. Prof.	Network security	18.2	2
7	Dr. N. Bhalaji	Ph. D.	Asso. Prof.	Networks	12.11	9
8	Dr. S. Karthika	Ph. D.	Asso. Prof.	Data Mining	8.4	1
9	Dr. G. Muneeswari	Ph. D.	Asso. Prof.	Multicore Architecture	18.5	1
10	Dr. P. Vasuki	Ph. D.	Asso. Prof.	Speech Processing and Machine Learning	17.5	--
11	Dr. S. Poornima	Ph. D.	Asso. Prof.	Image Processing and Biometrics	11.9	--
12	Dr. S. Mohanavalli	Ph. D.	Asso. Prof.	Data Mining and Data analytics	23	--
13	Dr. N. Sripriya	Ph. D.	Asso. Prof.	Speech Processing and Pattern	16.7	--

				recognition		
14	Dr. K. R. Uthayan	Ph. D.	Asso. Prof.	Software Engineering	23.11	--
15	Dr. I. Joe Louis Paul	Ph. D.	Asso. Prof.	CSE	17.3	--
16	Dr. V. Thanikachalam	Ph. D.	Asso. Prof.	CSE	18.4	--
17	Ms. E. M. Malathy	M. E.	AP	Sys. Engg & Op Research	16.6	--
18	Ms. R. Swathika	M. Tech.	AP	CSE	15.10	--
19	Mr. R. Vinob Chander	M. E.	AP	CSE	15.2	--
20	Ms. T. Shanmugapriya	M. E.	AP	VLSI	13.4	--
21	Ms. Srividya	M. E.	AP	CSE	11	--
22	Ms. N. Radha	M. E.	AP	CSE	12	--
23	Mr. A. Sandana Karuppan	M. E.	AP	CSE	10.9	--
24	Mr. V. Arulkumar	M. E.	AP	CSE	12.11	--
25	Ms. S. Uma Maheswari	M. E.	AP	Embedded System	14.9	--
26	Ms. S. Sasi Rekha	M. E.	AP	C&C	10.7	--
27	Mr. K. Kabilan	M. Tech.	AP	CSE	8.1	--
28	Ms. S. Vidhusha	M. E.	AP	C&C	5.8	--
29	Ms. J. Sofia Jennifer	M. Tech.	AP	IT	5.11	--
30	Ms. J. K. Josephine Julina	M. E.	AP	CSE	7.8	--

11. List of senior visiting faculty - **NIL**
12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty - **NIL**
13. Student -Teacher Ratio (programme wise)

Sl. No.	Programme	No. of Students	No. of Faculty	STR
1	UG	360	27	13.3
2	PG	36	3	12

14. Number of academic support staff (technical) and administrative staff;

Sl. No.	Type	Sanctioned	Filled
1	Technical	7	7
2	Administrative	3	3

15. Qualifications of teaching faculty with D.Sc./ D.Litt./ Ph.D./ M. Phil. / PG.

Sl. No.	Number of Faculty with Qualification			
	D.Sc./D. Litt.	Ph.D.	M. Phil.	P.G
1	NA	15	NA	15

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received

Sl. No.	Nature of Project	Number of Faculty
1	National	2
2	International	1

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received

- Total grant received by the department from National funding agencies is Rs.1,68,56,900/- until May 2017.
- Only on-going projects are listed in the table.

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	Speech-Input Speech-Output Communication Aid (SISOCA) for Speakers with Cerebral Palsy	DST-TIDE	13.72L	-	2016	On going
2	Dr. T. Nagarajan, Dr. P. Vijayalakshmi	HMM-based Text-to-Speech Synthesis System for Malaysian Tamil	Murasu Systems SdnBhd, Malaysia	4L	4L	2016	On going
3	Dr.T. Nagarajan Dr. P.Vijayalakshmi Dr. B. Bharathi Ms. S. Sasirekha	Speech-Enabled Interactive Enquiry System in Tamil	Tamil Virtual Academy	9.52L	8.28L	2016	On going
Funded by SSN Trust							
1	Dr.P.Vasuki Dr. T. Thanickachalam	Cognitive model based intelligent interactive tutoring system to assist students to improve their programming skill		2 L	-	2016	On going



2	Dr.N.Bhalaji, Dr. S. ChithraMr.K.Ka bilan	Customization of IOT protocols for societal applications using QOE	3.3 L	2.46L	2015	On going
3	Dr.G. Muneeswari	Multiagent Process Scheduling for NOC based Multicore Systems	1.2 L	-	2015	On going
4	Mr.Joe Louis Paul, Ms.S.Sasirekha Ms.R.Swathika	Disaster Management System-Next Generation	3.05 L	14,388	2015	On going
5	Mr. R. VinobChander	Being Smarter with Smart Objects	3.5 L	2.3L	2014	On going

18. Research Centre /facility recognized by the University

**The department has been recognized as a Research Centre by Anna University in 2011 for doing independent research leading to MS/ Ph.D.**

19. Publications:

Sl. No.	Faculty	Designation	Conf. Papers	Journal Papers	Quality Indices #				
					Citation Index	SNIP	SJR	Impact Factor	h-index
1.	Dr. T. Nagarajan	Prof. & Head	73	16	646	0.128- 0.1697	0.106- 0.685	0.29- 1.038	14
2.	Dr. R. Srinivasan	Prof.	20	22	50	0.2- 1.0	0.1- 1.1	0.2-1.2	3
3.	Dr. A. Shahina	Prof.	23	6	86	0.501- 1.289	0.125- 0.297	0.928	5
4.	Mr. V. Sivamurugan	Asso. Prof.	5	3	-	0.260	0.13	-	-
5.	Dr. T. SreeSharmila	Asso. Prof.	30	14	43	0.661- 0.944	0.292- 0.408	0.616- 1.331	4
6.	Dr. S. Chithra	Asso. Prof.	10	10	43	0.176 - 4.33	0.13 - 1.05	0.8 - 1.5	2
7.	Dr. N. Bhalaji	Asso. Prof.	15	17	200	0.090- 1.164	0.03- 0.56	0.65- 1.65	8
8.	Dr. S. Karthika	Asso. Prof.	12	7	15	0.260 - 1.281	0.130 - 0.496	1.35 - 2.2	2
9.	Dr.G.Muneeswari	Asso. Prof.	15	16	29	0.1- 0.7	0.1- 1.1	1.343	4
10.	Dr. P. Vasuki	Asso. Prof.	6	1	7	0.166	0.077	-	1

11.	Dr. S. Poornima	Asso. Prof.	2	6	19	0.871	0.12-0.416	0.660-0.791	2
12.	Dr. S. Mohanavalli	Asso. Prof.	13	11	22	0.166 - 0.763	0.149 - 0.495	0.915	2
13.	Dr. N. Sripriya	Asso. Prof.	4	2	4	0.984	0.175-0.549	0.34-0.93	1
14.	Dr. K.R. Uthayan	Asso. Prof.	2	2	11	-	-	-	2
15.	Dr. I. Joe Louis Paul	Asso. Prof.	19	6	12	0.501-1.421	0.125-0.292	0.5-1.3	1
16.	Dr. V. Thanikachalam	Asso. Prof.	2	3	9	0.26	0.13	-	2
17.	Ms. E.M. Malathy	AP	7	4	3	.260-1.044	.130-1.395	0-3.234	1
18.	Ms. R. Swathika	AP	13	4	5	0.26	0.13	-	1
19.	Ms. T. Shanmughapriya	AP	2	-	-	-	-	-	-
20.	Mr. R. VinobChander	AP	8	5	27	0.260 - 1.164	0.310 - 1.084	1.164 - 1.164	2
21.	Ms. Srividya	AP	2	4	1	0.26-0.36	0.13-0.25	-	1
22.	Ms. N. Radha	AP	6	2	3	1.289	0.273	0.2	1
23.	Mr. A.SandanaKaruppan	AP	3	3	2	0.13	0.260	-	1
24.	Mr. V. Arul Kumar	AP	2	1	-	0.13	0.12	-	-
25.	Ms. S. Uma Maheswari	AP	6	2	-	0.176-0.501	0.153-0.125-	-	-
26.	Ms. S. Sasirekha	AP	18	6	17	0.260-1.289	0.130-0.273	0.29-0.68	2
27.	Mr. K.Kabilan	AP	3	1	-	-	-	-	-
28.	Ms. S. Vidhusha	AP	3	2	7	0.971	0.273	0.86	2
29.	Ms. J. Sofia Jennifer	AP	3	-	2	-	-	-	1
30.	Ms. J.K. Josephine Julina	AP	3	1	8	-	-	5.023	1

b. Monographs Prepared by the Faculty: **NIL**

c. Chapters of a Book written by the faculty:

- P. Vijayalakshmi and T. Nagarajan, "Assessment and intelligibility modification for dysarthric speakers", *Voice Technologies for Reconstruction and Enhancement, De Gruyter Series in Speech Technology and Text Mining in Medicine and Healthcare* (ISBN:978-1-5015-0126-5, ISSN: 2329-5198)
- P. Vijayalakshmi, T. A. MariyaCelin, and T. Nagarajan, "Selective pole modification-based technique for the analysis and detection of hypernasality", *Signal*

and Acoustic Modeling for Speech and Communication Disorders, *De Gruyter Series in Speech Technology and Text Mining in Medicine and Healthcare* (ISBN: 978-1-5015-0241-5, ISSN: 2329-5198) (Invited)

- G. R. Bharath Ram, R. Jayakumaur, R. Narayan, A. Shahina and A. Nayeemulla Khan, “An Efficient Voice Enabled Web Content Retrieval System for Limited Vocabulary”, in *Wireless Networks and Computational Intelligence (ICIP 2012)*, *Springer Communications in Computer and Information Science Series*, Oct 2012, Volume 292, Part 3, pp. 390-398, DOI: 10.1007/978-3-642-31686-9-45.
- Ananda Kanagaraj.S, Kamalakannan.N, Devosh.M, Uma Maheswari.S, Shahina.A, NayeemullaKhan.A’ “Automated Health Monitoring Through Emotion Identification”, Chapter in Book "Proceedings of the International Conference on Soft Computing Systems: ICSCS 2015", *Springer Series: Advances in Intelligent Systems and Computing*, Volume 397, pp. 199-207, Dec. 2015, DOI: 10.1007/978-81-322-2671-0\_19
- D. Meenatchi, R. Aishwarya, A. Shahina, “A Voice Recognizing Elevator System”, Chapter in Book "Proceedings of the International Conference on Soft Computing Systems: ICSCS 2015", *Springer Series: Advances in Intelligent Systems and Computing*, Volume 397, pp. 179-187, Dec. 2015, DOI: 10.1007/978-81-322-2671-0\_17
- Gomathi Venkatesan and Chithra Selvaraj, “Bio-sensor Authentication for Medical Applications Using WBAN”, *Proceedings of the International Conference on Soft Computing Systems, Advances in Intelligent Systems and Computing* 398, DOI 10.1007/978-81-322-2674-1\_42, pp. 457-467.
- Priyanka Radja, K.Ragavi, S.Chithra, "Portable Text to Speech Converter for the Visually Impaired", *Journal of Advances in Intelligent Systems and Computing*, 397, DOI 10.1007/978-81-322-2671-0-71, Volume : 397, pp. 751-758 ISSN: 2194-5357, Apr. 2015.
- N.Bhalaji, Dr.A.Shanmugam “ Dynamic Trust Based Method to Mitigate Greyhole Attack in Mobile Adhoc Networks” (ICCTSD’11) *Procedia Engineering* pp. 907-914.(SJR=0.040)
- A.Prakash, M.Satish, T.SriSaiBhargava, N. Bhalaji, “Detection and mitigation of DOS attacks using stratified architecture”, in ICRTCSE 2016, in *Elsevier- Procedia Computer Science*. (SNIP = 0.865, IPP=0.805)
- G.Krishna, Gautham Krishna, N.Bhalaji “Analysis of Routing Protocol for Low-Power and Lossy Networks in IoT Real Time Applications” in ICRTCSE 2016, in *Elsevier- Procedia Computer Science*.(SNIP=0.865,IPP=0.805)
- Vaikkunth Mugunthan, Shrihari.S , N.Bhalaji , "Analysis of New L5 Algorithm Embedded with Modified AES Algorithm in Address Allocation Schemes", 3rd International Conference on Communication and Computer Engineering, 15 – 17 March 2016, Bandung – Indonesia 40323, To be Published in *Lecture Notes in Electrical Engineering*, (SNIP = 0.090, SJR = 0.120, IPP = 0.055)
- N.Bhalaji, S.Jothiprasanna, N.Parthiban “Performance Analysis of CREIDO Enhanced Chord Overlay Protocol for Wireless Sensor Networks”, to be published in *Advances in Intelligent Systems and Computing (AISC)* by Springer Singapore, ISSN Number - 2194 – 5357.
- N.Bhalaji, S.Chithra “Comprehensive Trust Based scheme to combat malicious nodes in MANET Based Cyber Physical Systems” in *Advances in Intelligent Systems and Computing (AISC)* by Springer Singapore, vol.508, pp. 543-550, ISSN Number - 2194 – 5357.

- N. Bhalaji, A. Shanmugam “A Trust Based Technique To Isolate Non-forwarding Nodes In DSR Based Mobile Adhoc Networks” CNSA-2010, July 23-25, Chennai, *LNCS-CCIS, Springer-Verlag*, Volume (90), pp.123-131, ISSN: 1865-0929(Print), 1865-0937(Online), DOI: 10.1007/978-3-642-14478-3, ISBN:978-3-642-14477-6 (Print) 978-3-642-14478-3 (Online) (SJR=0.041)
- N. Bhalaji, P. Gurunathan, A. Shanmugam “Performance comparison of Multicast Routing Protocols under Variable Bit Rate Scenario for mobile Adhoc Networks” CNSA-2010, July 23-25, Chennai, *LNCS-CCIS, Springer-Verlag*, Volume (90), pp 114-122, ISSN: 1865-0929(Print), 1865-0937(Online), DOI: 10.1007/978-3-642-14478-3, ISBN:978-3-642-14477-6(Print) 978-3-642-14478-3 (Online) (SJR=0.041)
- N. Bhalaji et.al “Trust based approach to combat cooperative blackhole attack in Manet” BAIP-2010, March 26-27, Trivandrum, *LNCS-CCIS, Springer-Verlag, Berlin Heidelberg* Volume (70), pp 468-474. ISSN: 1865-0929(Print) 1865-0937(Online), DOI: 10.1007/978-3-642-12214-9. (SJR=0.041)
- N. Bhalaji, Nandini Sundara Raman, “Natural Disaster Impact Assessment Using Genetic Algorithm” BAIP-2010, March 26-27, Trivandrum, *LNCS-CCIS, Springer-Verlag, Berlin Heidelberg*, pp 521-526. ISSN: 1865-0929(Print) 1865-0937(Online), DOI: 10.1007/978-3-642-12214-9. (SJR=0.041)
- Sasirekha S., Swamynathan S. (2016) Service Provisioning Middleware for Wireless Sensor Network. In: Das S., Pal T., Kar S., Satapathy S., Mandal J. (eds) Proceedings of the 4th International Conference on Frontiers in Intelligent Computing: Theory and Applications (FICTA) 2015. *Advances in Intelligent Systems and Computing*, vol 404. Springer, New Delhi

d. List of Books edited: **NIL**

e. Books Published:

- **D. Thenmozhi and N. Sripriya and Balasubramanian “Computer Networks”, Magnus Publications, 2005.**

20. Areas of consultancy and income generated **3.05 L**

Sl. No.	Financial Year	Name of faculty (Chief Consultant)	Client Organization	Title of Consultancy of project	Amount received (in Rupees)
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	290,000
Total					305,000

21. Faculty as members in

a) National committees b) International Committees c) Editorial Boards....

Sl. No.	Faculty	Committee Designation	Period
1	Dr. T. Nagarajan	Member of Board of Study – AUT, Reviewer: IEEE ASSP, CSSP – Elsevier, Speech	2011-2015

		Communication –Elsevier, IJST	
2	Dr. A. Shahina	Workshop on Image and Speech Processing	2011-2014
3	Dr. S. Chithra	Reviewer: IEEE - Internet of Things Reviewer: CSI Project Collaquium 2017 Reviewer : International Conference on Computer, Communication and Signal Processing (ICCCSP-2017)	2017
4	Dr. S. Chithra	Reviewer: IEEE International Conference on Computing and Communication Technologies	2014
5	Dr. N. Bhalaji	Program Committee Member –Second International Conference of Database and Data Mining (DBDM 2014), AIFL.	2014
6	Mr. I. Joe Louis Paul	Programme Committee Member: ICCCA2015, ISBCC 2015, ICCCS 2015, ICACCI-2015	2015
7	Mr. I. Joe Louis Paul	Programme Committee Member: ICCCT-2014	2014
8	Mr. I. Joe Louis Paul	Reviewer: International Conference on Computer and Communication Technology (ICCCT) and International conference on Recent Advances in Computing and Software Systems – (RACSS)	2012
9	Dr. N. Bhalaji	Reviewer : International Conference on Computer, Communication and Signal Processing (ICCCSP-2017) Editorial Committee –CiVE journal, AIRCC, International Journal of Computer applications Associate Editor –Information technology journal, Journal of artificial intelligence Editorial Member– International Proceedings of Computer Science and Information Technology, (IACSIT Press). Reviewer: Outstanding Reviewer and Editorial Committee – International journal of computer Theory and Engineering (IJCTE), Malaysian Journal of Computer Science, IET-Networks Journal “Mobile Health (mHeath): The Technology Road Map”, published by Springer, “Mobile Health (mHealth): Multidisciplinary Verticals, published by Taylor & Francis (CRC Press) Lecture Notes on Software Engineering, U SA, Kuwait Journal of Science Science Publication, USA, Arabian Journal for Science and Engineering International Journal of Computer Engineering Research, Journal of Mathematical and Computer Modeling (Elsevier), IJCSS, CRL Publisher, United Kingdom, International journal of Network Security, Taiwan, IST Transactions & Journals, Canada	

10	Dr. S. Chithra	Reviewer: IEEE Transactions on Dependable and Computing 2013	2013
11	Dr. A. Shahina	ICON- 2011 – International Conference on Natural Language Processing	2011
12	E.M.Malathy	Reviewer for PLoS ONE Journal 2016	2016
13	Mr. I. Joe Louis Paul	Programme Committee Member: ICRACCS-2016, IC4S 2016, ICCCA2016, ICACCI-2016	2016
14	Dr. S. Karthika	Reviewer - ICBSII	2017
15	Dr. S. Poornima	Reviewer: Artificial Intelligence Review Reviewer : International Conference on Computer, Communication and Signal Processing (ICCCSP-2017) Technical Committee Member of ICTACC '17 Reviewer: CSI Project Collaquium 2017	2017
16	Dr. N. Sripriya	Reviewer : International Conference on Computer, Communication and Signal Processing (ICCCSP-2017), Technical Committee Member of ICTACC '17	2017
17	Dr. S. Mohanavalli	Reviewer : International Conference on Computer, Communication and Signal Processing (ICCCSP-2017) Technical Committee Member of ICTACC '17	2017
18	Mr. I. Joe Louis Paul	Programme Committee Member: NGCT 2017, ICCCA-2017, IC4S 2017, ICSICCS-2017, IoT4TD-2017, ISBCC 2017, ICACCI-2017	2017
19	Mr. I. Joe Louis Paul	Reviewer : International Conference on Computer, Communication and Signal Processing (ICCCSP-2017)	2017
20	Mr. I. Joe Louis Paul	Reviewer: Wireless Personal Communication, IET Communications, Journal of Computer Science and American Journal of Applied Sciences	2014-2017

International Society	<b>IEEE</b>	<b>ISTE</b>	<b>ACM</b>
No. of faculty membership	13	8	2

## 22. Student projects

- a) Percentage of students who have done in-house and industry projects including inter departmental/programme

<b>Year</b>	<b>No. of Projects</b>	<b>% of in-house Projects</b>	<b>% of Industry Projects</b>
2016-2017	54	100	0
2015-2016	66	98.5	1.5
2014-2015	71	97.2	2.8
2013-2014	69	95.7	4.3
2012-2013	61	96.7	3.3
2011-2012	59	98.3	1.7

## 23. Awards / Recognitions received by faculty and students

Sl. No.	Date	Achievements*
1	2011	Moniksha, Kavitha & Lavanya Won the State Level programming contest at Infosys (Aspirations 2020) and got selected to participate in the National Finals held at Bangalore.
2	2014	Anand Kanagaraj, bagged the Winner of Fashion Domain and won a prize money of 2.5 Lakh for an online contest held for developers and students by company Ricoh Innovations.
3	2014	Anand Kanagaraj got selected for the 2 <sup>nd</sup> round for the MICROSOFT CODE FOR HONOR 2014. He also won the Microsoft Winds of Change Hackathon.
4	2014	Abhinanthan & Karthick of final year won 3 first prizes in different hackathon event conducted by Freshdesk, Firefox, KKDS and won Rs. 50,000 and Mobile phones respectively.
5	2014	Lakshman Diwakar and Nandan won the 24 hr hackaton conducted by ascendant technologies and won prize worth of 40,000.
6	2014	Sanjana of final year won the mega prize of TVS SCOOTY PEP PLUS in Femfest 2014 of Satyabama university and is one of the proud Google Student Ambassador of Chennai Circle.
7	2014	N. Devarajan, Vignesh, Final year students were awarded the first prize (certificate, ipad and trophy) in “CIO’s Challenge Competition” conducted by CTS.
8	2014	Abhinandan and Anandkumar got first place in state level competition on Android Application development conducted at SSNCE
9	2014	Mr. R. Vinob Chander, AP/IT successfully completed “M101JS: MongoDB for Node.js Developers” a course of study offered by MongoDB, Inc. (Delaware, US) with a grade of 95%.
10	2015	Dr. G. Muneeswari (Asso. Prof / IT) has been selected for the “Best Teacher Award” by GRABS Educational Charitable Trust (ISO 9001:2008), Chennai.
11	2016	Dr. Sree Sharmila has been awarded “Young Women Achiever Award” (Engineering) by Venus International Foundation on March 5, 2016
12	2016	Akshay Karthick L have done an internship at Qube Cinema Technologies Pvt. Ltd.
13	2016	Harish A and Akshay Karthick L have done internship at Ibiz Consultancy Services India Pvt. Ltd.
14	2016	Srinidhi Sridharan have done internship at Karlsruhe Institute of Technology, Germany.
15	2016	Rushvanth Bhaskar have done internship at IITM Chennai.
16	2016	Dr. T. Sree Sharmila, ASP/IT received the travel grant from DST (Young scientist) for presenting the paper in IEEE TENCON 2016 at Marina Bay Sand, Singapore on 22 nd -25 th November 2016.
17	2016	Dr. T. Sree Sharmila has received the “Best Faculty” award by SSN Trust

18	2016	Ms. R. Sasirekha has received the “Best Faculty” award by SSN Trust
19	2016	The following students guided by Dr.G.Muneeswari, ASP/IT, bagged II prize in the paper presentation contest - " Prayatna 16", Technical Symposium, held in Madras Institute of Technology, Chennai. Students: S.Priyadarsani, V.Rajalakshmi. Paper Title: Fault Tolerance Scheduling for Multicore Architecture.
20	2016	The following paper was presented at the 15th Tamil Internet Conference, Gandhigram Rural Institute, Dindigul, and was awarded the Best Paper award. "Phone Mapping-based Mixed-language synthesizer for Tamil and Indian English", V. Sherlin Solomi, G. Anushiya Rachel, P.Vijayalakshmi, T. Nagarajan, 15th Tamil Internet Conference
21	2017	Sri Vishnu and Vaikunth Mukunthan have pursued internship at Microsoft for a period of 2 months with a CTC of 4 lakh.
22	2017	Muthusamy A, Shrihari and Tarunika R have received Graduate Intern with NSM Services Pvt. Ltd. For 1 month with CTC of INR 1.3 Lakh
23	2017	Sandya N and Soundarya R have done internship at United India Insurance Co. Ltd.
24	2017	R.Sharmila has received the following awards. 1. Best outgoing student of SSNCE for the year 2017. 2. Best outgoing student - department of IT, SSNCE . 3. Recipient of sports scholarship awards for all four years. 4.Hall of fame - SSN sports complex ( was considered as one of the elite players in ssn representing India )
25	2017	Aneerudh have received Graduate Intern with Metarvrse Technologies for 6 months with CTC of INR 18 thousand.
26	2017	S. Saivignesh, K. Rajesh, Raxit S.Jain, Shivani M.R, B.Vignesh and J.Nadeem Sherif are participated Smart India Hackathon 2017 (SIH 2017), the 36 hours World’s Biggest Hackathon Organized by Ministry of HRD & AICTE at Allahabad and selected top 8 among 61 teams.

\*Few of the achievements have been listed above

24. List of eminent academicians and scientists / visitors to the department

Sl. No.	Date	Visitor’s Name*
1	26.10.2010	Prof. B. Yegnanarayana, IIT, Hyderabad.
2	18.03.2010	Mr. Manjunath, Innovate Software Solutions, Bangalore.
3	28.04.2011 29.04.2011	Dr. SM. Mansoor Roomi, Thiagarajar College of Engg., Madurai, Dr.C Chandrasekar, IITM, Chennai.
4	24.02.2012	Dr.R.Krishnamoorthy, Professor & Dean, Anna University of Technology, Trichy.
5	23.03.2012	Dr. P. Srinivasa Kumar, Professor, IIT Madras. Mr. S. Sudarsan, Director, Burning Glass Technologies, Chennai.
6	04.09.2013	Mr Kriuba Shankar, CEO of Business Blogging.
7	07.08.2013	Mr Sambath Vijay, Head, TCS
8	24.01.2014	Dr. Arup Ratan Saha, Synopsys Inida (Pvt.) Ltd, Hyderabad
9	27.09.2014	Dr. Jacksom, Tata Elxsi,



10	03.04.2014	Dr. Rishikesh, Professor, Dr. Venkatesh Babu, IISC, Bangalore
11	04.04.2014	Dr. Hema A Murthy, Dr. Umesh, Dr. Venkatesh, Professors, IITM, Chennai.
12	05.04.2014	Dr. Masilamani, IIIT – DM
13	16.09.2015	Dr. Abirami, AP, Anna University, Chennai.
14	21.03.2015	Dr. M.S.Sricharan, Wipro
15	01.07.2015	Dr. Nirmala Shenoy, RIT, USA
16	11.08.2015	Mr.Sunder Muthuvelu, Manager, SAP Database Engineering and Operation in a Fortune 100 Company in North America
17	21.08.2015	Mr. A B Vijayaragavan, Manager, CTS, Chennai
18	26.08.2015	Mr. K S Rangarajan, Sr. Manager, CTS, Chennai
19	16.09.2015	Ms S Abirami, Asst. Professor, Anna University, Chennai.
20	08.01.2016-11.01.2016	Prof. Mark Hasegawa-Johnson, Professor, University of Illinois (Urbana-Champaign)
21	08.01.2016-11.01.2016	Prof. Yi Xu, Professor, University College, London
22	08.01.2016-11.01.2016	Prof. Israel Cohen, Professor, Technion, Israel Institute of Technology
23	08.01.2016-11.01.2016	Prof. Hema A. Murthy, Professor, IIT-M
24	08.01.2016-11.01.2016	Prof. V. Ramasubramanian, PESIT South Campus, Bangalore
25	08.01.2016-11.01.2016	Prof. Preeti Rao, IIT Bombay
26	08.01.2016-11.01.2016	Dr. Kalika Bali, Researcher, Microsoft Research Labs, Bangalore
27	08.01.2016-11.01.2016	Prof. Priyankoo Sarmah, Asst. Professor, IIT Guwahati
28	01.02.2016	Dr Dhananjaykumar, Asso. Professor, MIT, Chennai.
29	01.02.2016	Dr. S. Sundar, Professor, IIT - M
30	01.02.2016	Dr. Umarani Jayaraman, Asso. Professor, IIITD&M
31	02.02.2016	Dr Mohamed Yasin S, Professor & Head, Rajalakshmi Engineering College, Chennai.
32	02.02.2016	Dr B Rajesh Kanna, Associate Professor, VIT Chennai
33	08.02.2016	Mr Vimal kumar, CEO, Juspay Technologies, Bangalore
34	02.04.2016	Mr Ramanathan R, Fidelity Chennai
35	26.07.2016	Dr Susmita Ghosh, Professor, Jadavpur University
36	29.07.2016	Dr. Harish Ramani, Director & Chief Technology officer, Internet techies Solution pvt. Ltd.
37	10.01.2017	Prof. Youf Meug TEO, Asso. Professor, National University of Singapore
38	10.01.2017	Mr. Murugan Achanaicker, Engineering Manager-CEO, Magna Closures, USA
39	10.01.2017	Mr. Arun Kumar, Manager, CTS, Chennai
40	10.01.2017	Dr. Koushik Mitra, Professor, IIT-M
41	10.01.2017	Dr. V.N. Mani, Scientist – E, Deity
42	11.01.2017	Prof. Vitaliy Mezhuvey, Professor, University of Malaysia
43	11.01.2017	Dr. S Krishnakumar, Senior Technical Officer, DRDO, Chennai
44	02.02.2017	Dr. P Vetrivelan, Asso. Professor, VIT, Chennai

45	09.02.2017	Dr. T.T Mirmalinee, Professor, SSNCE
46	09.02.2017	Dr. V. Natarajan, Global Tech Officer, CTS, Chennai.
47	09.02.2017	Ms. Lakshmi, Asst. Professor, SSNCE
48	10.02.2017	Dr.S.Sundar, Professor, IIT-M
49	20.02.2017	Raj Bharath, Sairam Krishnamurthy, Karpaga Nachammai Periaithambi, Solution Consultant(s), Sahaj Software Solutions Pvt Ltd
50	17.03.2017	Mr. Vivek Nagaraju, Product Developer, Thoughtworks Inc.
51	04.04.2017	Dr. Indira Rajasingh, Professor, VIT Chennai.
52	04.04.2017	Dr. Syed Ibrahim, Professor, VIT Chennai.

\* Few of the visitors have been mentioned above

25. Seminars/ Conferences/Workshops organized & the source of funding

Sl. No.	Name of the Co-ordinator / Co-coordinator	Title	Duration	Funding Source
1.	Dr. T. Nagarajan, Dr. T. Sree Sharmila, Dr. S. Karthika	International Conference on Computer, Communication and Signal Processing, ICCCSPP - 2017	Jan 10 - 11, 2017	SSN Trust, CTS
2.	Dr. T. Sree Sharmila, Ms. S. Vidhusha, Ms. J. Sofia Jennifer, Ms. J. K. Josephine Julina	Machine Learning Techniques for Image-Based Applications	Feb 9 - 10, 2017	SSN Trust
3.	Dr. N. Bhalaji, Dr. S. Chithra, Dr. S. Karthika	Workshop on Cyber Awareness Program- Insight Perspective (CAP IS)		SSN Trust
4.	I. Joe Louis Paul, R. Swathika, S. Sasirekha	VIVID 2017	March 24, 2017	CTS
5.	Dr. S. Chithra, Dr. N. Bhalaji	Seminar on open research problems in Internet of Things	March 31, 2017	SSN Trust
6.	Dr. S. Karthika, Dr. S. Mohanavalli, Ms. Srividya	RSS SNA 2017	April 4, 2017	SSN Trust
7.	Dr. P.Vasuki , E.M.Malathy S.Umameshwari and V.Arulkumar	Python Programming	February 24 - 25, 2017	SSN Trust
8.	Dr. Hema A. Murthy, IIT-M Dr. T. Nagarajan, IT, SSNCE Dr. P. Vijayalakshmi, ECE, Dr. A Shahina, IT, SSNCE	WiSSAP 2016	8 <sup>th</sup> -11 <sup>th</sup> Jan 2016	SSN Trust, Tamil Virtual Academy, CTS TDIL, ISCA (France)
9.	Ms. S. Vidhusha	Two-day workshop on	1 <sup>st</sup> - 2 <sup>nd</sup>	SSN Trust

	Ms. J. K. Josephine Julina	Research Prospects in Image Fusion and Registration	Feb 2016	
10.	Mr. I. Joe Louis Paul Ms. R. Swathika Ms. S. Sasirekha	National Level Project Competition-VIVID 2016	4 <sup>th</sup> Feb 2016	SSN Trust
11.	Dr. S. Chithra, Dr.N.Bhalaji, Mr. R.Vinob Chander	The Internet of Things: Hands-on with Raspberry Pi	22 <sup>nd</sup> -23 <sup>rd</sup> Mar 2016	SSN Trust
12.	Dr. S. Karthika, Ms. S. Mohanavalli, Ms. Srividya	Research scholar symposium on data analytics and security	4 <sup>th</sup> Apr 2016	SSN Trust
13.	Dr. T. Sree Sharmila Mr. V. Thanikachalam Ms. S. Poornima	Third national level workshop on fundamental analysis & processing of image & video with computing techniques with Hands-on Training in Fundamentals & Preprocessing Techniques	3 <sup>rd</sup> Jul 2016	SSN Trust
14.	Dr. S. Chithra, Dr. G. Muneeswari Mr. K. Kabilan	National Level Workshop on Cyber Security and Forensics	6th Jan 2015	SSN Trust
15.	T. Sree Sharmila V. Thanikachalam S. Poornima R. Swathika	Fundamental Analysis & Processing of Image & Video with Computing Techniques	6-7th Feb 2015	CSI & SSN Trust
16.	Dr.N.Bhalaji, Mr. K.R.Uthayan, Ms. S. Mohanavalli Ms. Srividya.	"National Conference on Information Technology	21st Mar, 2015	SSN Trust
17.	Dr. S.Karthika Ms. S. Mohanavalli Ms. Srividya.	Research Scholar's Symposium on Data Analytics – RSS DA'15	4th Apr, 2015	SSN Trust
18.	Dr.T.Nagarajan Dr.R. Srinivasan Dr. K. Prem Kumar	3 days National Conference on Computer, Communication and Signal Processing	3-5th Apr 2014	CTS & SSN Trust
19.	Mr. V. Arul kumar	One day Hands on session in Openstack cloud environment	11 Apr 2014	SSN Trust
20.	Ms.R.Swathika Ms. S. Sasirekha	A Two-Day Workshop on SOA in Practice	19th – 20th Aug 2013	SSN Trust
21.	Dr. T.Sreesharmila, Mr. V.Thanikachalam, Ms. S.Poornima	Two day national level workshop on “Fundamental Analysis & Processing of Image & Video with Computing Techniques”	20th & 21st Sep 2013	SSN Trust
22.	Mr. I. Joe Louis Paul, Ms. E. M. Malathy	One-Day Hands on Training in “MIDLet Programming with J2ME”	July 6, 2012	SSN Trust
23.	R Srinivasan,	Introduction to TCAD and	Aug	SSN Trust

	K K Nagarajan, V N Ramakrishnan,	applications	17,18, 2012	
24.	Dr.T. Nagarajan Dr. P. Vijayalakshmi(ECE)	HMM based Speech Synthesis System	Nov 26-30 2012	SSN Trust
25.	Mr.V.Sivamurugan Ms.S.Poornima, Ms.S.Uma Maheswari	National Level Workshop on “A Practical & Systematic Approach to Android Based Development”	29-30 Mar, 2012	SSN Trust
26.	Mr. K. R.Uthayan , Ms. R. Swathika, Ms. S. Sasirekha	National Level Workshop on “Web Semantics & Machine Intelligence”	22-23, Mar 2012	SSN Trust
27.	Mr. U. Thiruvaazhi, Ms. T. Shanmugapriya Ms.S.Chithra	National level Workshop on “Essentials of Cyber Security and Forensics – A Practical Perspective”	03, Mar 2012	SSN Trust
28.	Mr. V. Thanikachalam, Ms. T. Sree Sharmila Ms. S. Rajkumar.	National level Workshop on "Emerging Directions in Image Processing & Understanding"	23,24 Feb 2012	SSN Trust

## 26. Student profile programme/course wise:

Name of the Course	Year	Applications received (Mgmt. Quota)	Selected (Mgmt +SWS+LE)	Enrolled		Percentage selected
				M*	F*	
B. Tech. (IT)	2012-2013	3640	143	69	74	
	2013-2014	3360	135	69	66	
	2014-2015	3450	140	75	65	
	2015-2016	4140	126	60	66	
	2016-2017	4500	143	71	72	
M. Tech. (IT)	2013-2014	12	18	4	14	
	2014-2015	8	14	3	11	
	2015-2016	5	15	1	14	
	2016-2017	82	7	0	7	

M\* = Male F\* = Female

## 27. Diversity of Students

Name of the Course B. Tech. IT	% of students from the same state	% of students from other States	% of students from abroad
2010-2011	95	5	Nil
2011-2012	90	10	Nil
2012-2013	97	3	Nil
2013-2014	98	2	Nil
2014-2015	95	5	Nil

2015-2016	94	6	Nil
2016-2017	112	14	Nil

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Year	2011-12			2012-13			2013-14			2014-15			2015-16			2016-17		
Nature of Examination	GR	EA	TA	GR	EA	TA	GR	EA	TA	GR	EA	TA	GR	EA	TA	GR	EA	TA
Number of students	6	2	8	7	-	6	7	1	1	8	-	-	7	-	-	19	8	3

29. Student progression

Student progression	Against % enrolled					
	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2016-17
UG to PG	12.30%	13%	13%	20%	10%	8.5%*
PG to M.Phil.	NA					
PG to Ph.D.	-	20%	6.25%	6.25%	-	-
Ph.D. to Post-Doctoral	-	-	-	-	-	-
<b>Placement</b>						
• Campus selection	86.13%	83.59%	74.32%	69.65%	75%	97%
• Other than campus	-	-	-	-	-	-
Entrepreneurship/Self-employment	1	1	1	2	-	-

\* As on data collected until May 2017

30. Details of Infrastructural facilities

a) Library

Year	No. of Titles	No. of Volumes	Reading Area
2012-2013	1744	2513	48 sq.m
2013-2014	1805	2711	48 sq.m
2014-2015	1836	2799	48 sq.m
2015-2016	1865	2883	48 sq.m
2016-2017	1910	2993	48 sq.m

b) Internet facilities for Staff & Students:

Internet facilities are available for all faculty and students 24 x7

- Name of the Internet provider - M/s. Airtel and M/s. Aircel
- Available bandwidth - 310 Mbps

c) Class rooms with ICT facility

No. of Class rooms	Area	Capacity	Availability of Laptop, LCD, Black board and White Board
6	115 sq.m	75	Available
2	49 sq.m	30	Available

## d) Laboratories

Sl. No.	Name of the Laboratory	Plinth Area in Sq.m/No. of Students per batch	Cost of Equipments
1	Alan Turing Lab	137 Sq.m / 35	11.60 Lakh
2	Von-Neumann Lab	137 Sq.m / 35	24.34 Lakh
3	Software Engineering Lab	137 Sq.m / 35	15.00 Lakh
4	Charles Babbage Lab	163.75 Sq.m / 35	11.73 Lakh
5	Operating Systems Lab	137. Sq.m / 35	17.99 Lakh
6	PG Lab	137 Sq.m / 18	7.54 Lakh
7	Research Lab	137 Sq.m	9.93 Lakh
8	4G Communication Lab	137 Sq.m	11.75 Lakh
9	Speech Lab	96 Sq.m	3.41Lakh

31. Number of students receiving financial assistance from college, university, government or other agencies

**B. Tech. IT**

Agency	Number of students provided with financial assistance in Years					
	2016-17	2015-16	2014-15	2013-14	2012-13	2011-12
By SSN Trust			76	64	55	63
By Government			60	61	38	9

**M. Tech. IT**

Agency	Number of students provided with financial assistance in Years				
	2016-17	2015-16	2014-15	2013-14	2012-13
By SSN Trust			2	-	1
By Government			6	5	4

32.Details on student enrichment programmes (special lectures / workshops /seminar) with external experts

Sl. No.	Date	Name of the enrichment Programme*	Name of expert
1	17/03/17	Guideline for summer Placement	Mr. Vivek Nagaraju, Product Developer, Thoughtworks Inc.
2	20/02/17	Visualizing Algorithms	Raj Bharath, Sairam Krishnamurthy, Karpaga Nachammai Periathamby, Solution Consultant(s), Sahaj Software Solutions, Chennai.
3	02/02/17	IoT and Solving Global Problems	Dr. P Vetrivelan, Asso. Professor, VIT Chennai.
4	29/07/16	Cyber Warfare and Security Measures	Dr Harish Ramani, Director & Chief Technology Officer, Internettechies Soln Pvt Ltd.
5	27/07/16	Evolutionary Algorithms and Their Applications	Dr Susmita Ghosh, Professor, Jadavpur University
6	08/02/16	IT Infrastructures and Feature Scope	Mr Vimal kumar, CEO, Juspay Technologies, Bangalore

7	02/02/16	Hypergraph based image models	Dr. B. Rajesh Kanna, VIT, Chennai
8	01/02/16	Image Fusion and Registration in realtime applications	Dr. Umarani Jayaraman, IIIT(D&M)
9	08/01/16 – 11/01/16	Winter School on Speech and Audio Processing 2016	Prof. Marc Swerts, Tilburg University Prof. Mark Hasegawa-Johnson, University of Illinois Prof. Yi Xu, University College London Prof. Hema A. Murthy, IIT, Madras Prof. Preeti Rao, IIT, Bombay Prof. V. Ramasubramanian, PESIT, Bangalore Dr. Kalika Bali, Microsoft Research Labs, Bangalore Prof. Priyankoo Sarmah, IIT, Guwahati
10	16/09/15	Modern Databases	Ms S Abirami, Assistant professor, Anna University, Chennai.
11	21/08/15	Software Project Management	Mr. A B Vijayaragavan, Manager, CTS, Chennai.
12	11/08/15	IT Transformation	Mr. Sundar Muthuvelan, Manager, SAP, Fortune 100 company, North America
13	21/03/15	SDN	Dr. M.S. Sricharan from WIPRO
14	05/04/14	Image Security using signal processing	Mr. Masilamani, IIIT-DM
15	05/04/14	Group Delay Processing of speech and music signals	Dr. Hema A murthy, Professor from IITM from Chennai
16	04/04/14	Performance of maxilikelihood decode & forward system	Dr. G.V.V Sharma from IIT Hyderabad
17	04/04/14	Information Theoretic point of view to contention Resolution	Dr. Venkatesh from IITM
18	03/04/14	Overview of Indian language speech Recognition system built to access Mandi project	Dr. G.V.V Sharma from IIT Hyderabad
19	03/04/14	Image understanding challenges and advances	Dr. Venkatesh Babu, Professor from IISC, Bangalore
20	03/04/14	Neuro Science and Engineering Independent or Interdependent	Dr. Rishikesh, Professor from IISC
21	20/08/13	Oracle SOA Suite	Mr. S.K. Praveen from Oracle, Hyderabad
22	22/02/13	Web Services	Mr. Srikrishna Prakash from Calsoftlabs, chennai

\*Few of the enrichment programmes have been listed above

## 33. Teaching methods adopted to improve student learning

- Classroom teaching is based on a lesson plan formulated at the beginning of a semester.
- Teaching as per lesson plan interspersed with three assessment exams helps to continuously monitor learning outcomes and also for preparation towards lab exercises, and project work.
- Tutorial sessions, where necessary, are conducted for the courses.
- E-learning is implemented through institution intranet with pre-class, in-class and post-class e-reading materials.
- Student project work is reviewed regularly to guide the students for successful completion and publication of their work in peer reviewed journals/conferences.

## 34. Participation in Institutional Social Responsibility (ISR) and Extension activities

**NSS and YRC**

These are taken care of by the National Student Service Scheme (NSS) and Youth Red Cross Society (YRC). The membership and service of a student in NSS/YRC has been made mandatory by the University. The YRC came into being in 2011-12 onwards. The number of activities during the preceding three years is given below:

Sl. No.	Unit	Number of events and the number of students participated during					
		2016-17		2015-16		2014-15	
		Events	Participants	Events	Participants	Events	Participants
1	NSS	23	200	6	25-200	6	15-200
2	YRC	12	100	6	15 – 300	6	15 – 200

**NSS Activities -2016 -2017**

Sl. No.	Name of the Event	Date	Venue	No. of Volunteers participated
1	Lateral Entry Guidance Programme	27 <sup>th</sup> July 2016	Lecture Hall	40
2	EthuSudhandiram	12 <sup>th</sup> Aug. 2016	Seminar Hall	200
3	MaatramAaguhga	24 <sup>th</sup> Aug. 2016	Seminar Hall	100
4	NSS Orientation	7 <sup>th</sup> Sep.2016	Mini Audi	100
5	Blood donation Camp	13 <sup>th</sup> Sep. 2016	ECE Block, SSNCE	250
6	NSS Day Celebration	28 <sup>th</sup> Sep. 2016	Mini Audi	250
7	Rural Students Meet Up	1 <sup>st</sup> Oct. 2016	Lecture Hall	40
8	DaanUstaav	2 <sup>nd</sup> Oct. 2016	Besant Nagar	170
9	Organic Farming	3 <sup>rd</sup> Oct. 2016	SSN Campus	30
10	Disaster Management Training	7 <sup>th</sup> Nov. 2016	Thiruporur-Community Hall	20
11	Turtle Walk – Clean UP	7 <sup>th</sup> & 8 <sup>th</sup> Jan 2017	Patinapakkam	65
12	National Youth Conference	12 <sup>th</sup> to 15 <sup>th</sup> Jan 2017	Rohtak, Haryana	02



13	Youth Day Celebrations	19 <sup>th</sup> Jan 2017	Manapakkam, Chennai	33
14	Lake Walk	22 <sup>nd</sup> Jan. 2017	Chennai	40
15	National Voters Day	25 <sup>th</sup> Jan 2017	Seminar Hall	50
16	Campus Cleanliness Drive	13 <sup>th</sup> Feb to 28 <sup>th</sup> Feb. 2017	SSNCE	15
17	Tree Plantation	21 <sup>st</sup> & 22 <sup>nd</sup> Feb. 2017	SSNCE Campus	20
18	Turtle Walk	25 <sup>th</sup> Feb. 2017	Inajmbakkam to Besant Nagar	20
19	Blood donation Camp	28 <sup>th</sup> Feb. 2017	Mini Audi	250
20	Volunteers Workshop	2 <sup>nd</sup> & 3 <sup>rd</sup> March 2017	Anna Univeristy	3
21	Blind Home visit	25 <sup>th</sup> March 2017	Madavaram, Chennai	35
22	March Past	31 <sup>st</sup> March 2017	SSNCE	40
23	NSS Conclave	8 <sup>th</sup> April 2017	IIT Madras	5

**NSS Activities -2015 -2016**

Sl. No.	Name of the Event	Date	Venue	No. of Volunteers participated
1	Youth Day Meet	7 <sup>th</sup> Jan 2015	Vel's University	15
2	Group Discussion on Service Through NSS	19 <sup>th</sup> Jan 2015	College Campus	45
3	Lecture on e-Governance	29 <sup>th</sup> Jan 2015	College Campus	35
4	Organic Village visit	7 <sup>th</sup> Feb 2015	Vengambakkam	57
5	Thai Manne Vanakkam	21 <sup>st</sup> March 2015	College Campus	50
6	NSS orientation to Volunteers	26 <sup>th</sup> & 27 <sup>th</sup> March 2015	PA College of Engg. & Technology	5
7	GD on “ Are we Water Conscious”	30 <sup>th</sup> March 2015	College Campus	50
8	Orphanage Visit	4 <sup>th</sup> April 2015	Good Life center - Tambaram	15
9	GD on “Feminism is..”	9 <sup>th</sup> April 2015	College campus	54
10	Conference on Volunteerism	12 <sup>th</sup> April 2015	IIT Madras	4
11	IIT Madras Open House	18 <sup>th</sup> April 2015	IIT Madras	10
12	ECO Walk	19 <sup>th</sup> April 2015	Nagalapuram, Andhra Pradesh	25

**YRC Activities -2016 -2017**

Sl. No.	Name of the Event	Date	Venue	No. of Volunteers participated
1	Campus cleaning	04.04.2017	SSN CE	50
	Orphanage visit	04.03.2017	Annai Fathima	40

2			illam, Karapakkam	
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

### YRC Activities -2015 -2016

- The YRC volunteers involved in Hospital Clean up activity on 28 July and 1 Aug 2015 at Institute of Child Health and Hospital for Children, Egmore, Chennai.
- Blood Donation Camp is organized by NSS and YRC unit of SSN on 26<sup>th</sup> February 2016.
- Campus cleaning activity during Mar 2016.
- Dental camp is organized by YRC unit of SSN on 4<sup>th</sup> March 2016.

35. SWOC analysis of the department and Future plans

#### Strengths:

- All faculty members are either Ph.D. holders or pursuing Ph.D.
- Faculty members with wide spectrum of specialization
- Excellent faculty retention ratio
- Several funded projects awarded by various government agencies like DST, DRDO and MCIT
- Research grant by SSN Trust for promising projects of faculty and students
- Innovation centre and incubation centre established to encourage students to innovate, design, implement and incubate startups
- Three dedicated laboratories for research in addition to 6 academic laboratories.
- Excellent Placement record
- Recognized research centre under Anna University
- A dedicated department library in addition to the facilities in the central library
- Technology-enabled classrooms with state of the art teaching aids
- Established a resource centre under National Cyber Defense Research Centre (NCDRC) board

**Weaknesses:**

- Inflexibility in curriculum and assessments due to affiliated status
- Deficit in IPR submissions and consultancy activities
- Potential of alumni not fully capitalized
- Difficulty in obtaining industrial collaborations

**Opportunities:**

- Scope for inter-disciplinary research
- Collaboration with foreign universities for increased research activity
- Proximity to the IT corridor for improved industry interaction
- Commercialization of IPR through incubation

**Challenges:**

- Being an affiliated institution, it is difficult to cope-up with the rapidly changing technology
- Amidst coding-focused mass recruitments, exposing and inculcating interest in the various other IT related fields among student community is challenging

**Future Plans:**

- To focus on the field of cyber security
  - Starting a new PG course with a specialization in cyber security
  - Submitting proposals to funding agencies in the field of cyber security, in addition to applying proposals in the other areas
  - Conducting skill development programs under NCDRC
- To utilize alumni resources for better industry interaction and international collaboration

## EVALUATIVE REPORT OF THE DEPARTMENT OF CHEMICAL ENGINEERING

1. Name of the department : **Chemical Engineering**
2. Year of Establishment : **2004**
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)
  - **UG - B. Tech., Chemical Engineering**
  - **PG - M.Tech., Environmental Science and Technology**
  - **M.S., & Ph.D., by Research**
4. Names of Interdisciplinary courses and the departments/units involved  
**Nil**
5. Annual/ semester/choice based credit system (programme wise)  
**All Programmes are by Semester System only**
6. Participation of the department in the courses offered by other departments

Sl. No.	Department	Semester	Title of the Course
1	Mechanical	II	CY7007 – Bio Energy Conversion Techniques
2	IT, CSE & EEE	III	GE6351 - Environmental Science and Engineering
3	ECE	V	GE6351 - Environmental Science and Engineering

7. Courses in collaboration with other universities, industries, foreign institutions, etc.  
**Nil**
8. Details of courses/programmes discontinued (if any) with reasons **Nil**
9. Number of teaching posts

Title	Sanctioned		Filled		Total
	UG	PG	UG	PG	
Professor	1	1	1	-	<b>1</b>
Associate Professor	2	1	8	3	<b>11</b>
Assistant. Professor	9	1	2	-	<b>2</b>

10. Faculty profile with name, qualification, designation, specialization (D.Sc./D.Litt./Ph.D. / M. Phil. etc.)

S.No	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Student guiding for the last 4 years
1	Dr. R. Parthiban	Ph.D.	Professor & Head	Environmental Technology	23.5	4
2	Dr.V.Jaikumar	Ph.D.	Associate Professor	Environmental Engineering	17	3
3	Dr.K.Jagannathan	Ph.D.	Associate Professor	Environmental Engineering	15	3
4	Dr.K.Sathish Kumar	Ph.D.	Associate Professor	Nano materials	14.5	8
5	Dr.M. Subramanian	Ph.D.	Associate Professor	Photo catalysis	17	Nil
6	Dr.P.Senthil Kumar	Ph.D.	Associate Professor	Environmental Engineering	12	13
7	Dr.D.Gnana Prakash	Ph.D.	Associate Professor	Hydrotropic Extraction	15.5	5
8	Dr.K.P.Gopinath	Ph.D.	Associate Professor	Environmental & Energy Engineering	9	11
9	Dr.B.Ambedkar	Ph.D.	Associate Professor	Post Combustion CO <sub>2</sub> Capture Processes	7.2	1
10	Dr.J. Dhanalakshmi	Ph.D.	Associate Professor	Green separation processes	1.5	Nil
11	Dr.Anantharaj R	Ph.D.	Associate Professor	Zero Emission	5.6	2
12	Dr.D.Balaji	Ph.D.,	Associate Professor	Bioprocess Engineering	15.5	2
13	Mr.Kilaru Harsha Vardhan	M.Tech.	Assistant Professor	Process Control	17.5	Nil
14	Ms.B.Chitra	M.Tech.	Assistant Professor	Nanotechnology	9.5	Nil

11. List of senior visiting faculty **Nil**
12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty **Nil**
13. Student -Teacher Ratio (programme wise)

Sl. No.	Programme	Students@	No. of Faculty	STR
1	UG	180	11	1:16
2	PG	36	3	1:12

14. Number of academic, technical, and administrative staff; sanctioned and filled

Sl. No.	Type	Sanctioned	Filled
1	Technical Staff	4	4
2	Administrative Staff	3	2

15. Qualifications of teaching faculty with D.Sc./ D.Litt./ Ph.D./ M. Phil. / PG.

Sl. No.	Number of Faculty with Qualification			
	D.Sc./D. Litt,	Ph.D.	M.Phil.	P.G
1	Nil	12	Nil	2

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received

Sl. No.	Nature of Project	Number of Faculty
1	National	3
2	International	Nil

## 17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received

Sl. No.	Faculty	Title of Project	Funding Agency	Date of Approval	Amount (Rupees in Lakhs)		Status
					Sanctioned	Received	
1.	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
2.	Mrs.R.Pushpalatha	Preparations of Magnetic nanoparticles in silica matrix	SSN Trust	09.07.10	5.00	3.08	Completed
3.	Dr.P. Senthil Kumar & Dr.K. Sathish Kumar	Rapid removal of Heavy metal ions from waste water using newly prepared low-cost adsorbent	SSN Trust	30.12.11	8.50	8.50	Completed
4.	Dr.D. Gnana Prakash	Hydrotropic extraction of bioactive compounds using Ultra-sonication	SSN Trust	28.12.12	8.50	4.60	Completed
5.	Dr.R. Saravanathamizhan & Dr.P.Senthil Kumar	Novel photo catalytic reactor for the treatment of industrial effluents	SSN Trust	09.11.13	2.50	2.50	On going
6.	Dr.K.P. Gopinath	Feasibility studies on biodiesel production from macro and micro Algae isolated from various water bodies	SSN Trust	09.11.13	2.50	2.50	On going
7.	Dr.C. Ravikumar & Mrs.B.Chitra	Experimental investigation of heat transfer enhancement using stable nano- fluids as coolant for automobile radiators.	SSN Trust	16.10.14	5.50	5.50	On going
8.	Dr.J. Dhanalaskhmi & Dr. B. Ambedkar	Potential Applications of Ionic Liquids in reducing CO <sub>2</sub> Capture Process Energy Demand	SSN Trust	30.09.15	4.00	4.00	On going
9.	Dr. R. Anantharaj	Solvent screening, synthesis, characterization and application of potential solvent for removal of endocrine disrupts chemicals from water matrices	DST-SERB	09.11.15	19.47	15.73	On going
10.	Dr. D. Balaji &	Design and development of bio-	SSN Trust	30.10.16	4.55		On going

	Dr. D.Gnanaprakash	calorimeter for in-line monitoring and control of bio process system for enhanced production of enzymes					
11.	Dr. R. Anantharaj & Dr. B. Ambedkar	Desulphurization of Diesel oil using ionic liquids with quantum chemical prediction and validation	SSN Trust	30.10.16	3.30		On going
12.	Dr. B. Ambedkar	Potential Applications of Mega - Sonics (High frequency ultrasound) in CO <sub>2</sub> capture solvents regenerations: An initial approach	DST-SERB (EEQ)	08.12.16	21.36	17.65	On going
13.	Dr. J. Dhanalakshmi & Dr.B.Ambedkar	Potential applications of ionic liquids in CO <sub>2</sub> capture process for sustainable energy and environment	DST-SERB (ECR)	11.01.17	11.75		On going



## 18. Research Centre /facility recognized by the University

**The department has been recognized as a Research Centre by Anna University on 12-Oct-2012 for doing independent research leading to MS/ Ph.D.**

## 19. Publications:

Sl. No.	Faculty	Designation	Conf. Papers	Journal Papers	Citation Indices #		
					Citation Index	Impact Factor	h-index
1.	Dr. R. Parthiban	Prof. & Head	1	3	93	2.74	5
2.	Dr.V.Jaikumar	Asso. Prof.	2	2	85	1.264	5
3.	Dr.K.Jagannathan	Asso. Prof.	2	2	103	0.661-5.744	5
4.	Dr.K.Sathish Kumar	Asso. Prof.	7	35	375	0.294-2.637	10
5.	Dr.M.Subramanian	Asso. Prof.	2	1	-	-	3
6.	Dr.P.Senthil Kumar	Asso. Prof.	80	107	1754	0.4-5.310	20
7.	Dr.D.Gnana Prakash	Asso. Prof.	7	20	73	0.22-0.993	5
8.	Dr.K.P.Gopinath	Asso. Prof.	-	-	200	1.716-5.310	6
9.	Dr.B.Ambedkar	Asso. Prof.	3	2	80	1.012-4	5
10.	Dr.J.Dhanalakshmi	Asso. Prof.	5	2	29	1.012	3
11.	Dr.Anantharaj R	Asso. Prof.	-	6	231	0.79-2.083	7
12.	Dr.D.Balaji	Asso. Prof.	4	-	33	0.865-3.337	4
13.	Mr.KilaruHarshaVardhan	Assistant Prof.	-	2	-	1.173-1.569	2
14.	Ms.B.Chitra	Assistant Prof.	-	3	-	2.74	1

1. Most papers are listed in the various International Data Bases
2. The Range of the Indices are given considering all the Journal papers published by each faculty(#)

**b. Monographs Prepared by the Faculty: (Give a list) – Nil**

**c. Chapters of a Book written by the faculty: (Give a list)**

Sl. No.	Title of chapters	Author(s)	Name of the book, volume and year of publication	Publisher
1	Enzymes in Platform Chemical Biorefinery	T.S. Saai Anugraha, T. Swaminathan, D. Swaminathan, N. Meyyappan, R. Parthiban	Platform Chemical Biorefinery: Future Green Industry, 2016, pp.451-469	Elsevier Publications
2	Platform Chemical Biorefinery and Agro-industrial Waste Management	K.P. Gopinath, A.R.Sankaranarayanan, L. Nivedhitha	Platform Chemical Biorefinery: Future Green Industry, 2016, pp.379-391	Elsevier Publications
3	Nano Chemicals and Effluent Treatment in Textile Industries	P. Senthil Kumar, Abishek S Narayan, Abhishek Dutta	Textiles and Clothing Sustainability: Nano textiles and Sustainability 2017, pp. 57-96	Springer Science + Business Media Singapore Pte Ltd
4	Introduction to sustainable fibres and textiles	P. Senthil Kumar, S. Suganya	Sustainable Fibers and Textiles: A Complete Guide 2017	Elsevier Publications
5	Sustainable Waste Water Treatments in Textile Sector	P. Senthil Kumar, A. Saravanan	Sustainable Fibers and Textiles: A Complete Guide 2017	Elsevier Publications
6	Sustainable Waste water Treatment Technologies	P. Senthil Kumar, A. Saravanan	The Detox Fashion-Cleaning Up Fashion Sector 2017	Springer Nature Singapore Pte Ltd.
7	Sustainable Wet Processing	P. Senthil Kumar, E. Gunasundari	The Detox Fashion-Cleaning Up Fashion Sector 2017	Springer Nature Singapore Pte Ltd.
8	Toxic Free Supply Chain for Textiles and Clothing	P. Senthil Kumar, S. Suganya	The Detox Fashion-Cleaning Up Fashion Sector 2017	Springer Nature Singapore Pte Ltd.

**d. List of Books edited: -Nil-**

**e. Books Published - Nil**

## 20. Areas of consultancy and income generated

Sl. No.	Faculty	Organization to which consultancy is offered	Area of consultancy	Amount earned (Rs)
1.	Anantharaj R, Sathish Kumar K	M/s. Sheenlac Paints Limited. Chennai 600 098.	Separation process with Ionic Liquid	2,50,000/-

## 21. Faculty as members in

a) National committees b) International Committees c) Editorial Boards....

Sl. No.	Faculty	Committee Designation	Period
1.	Dr. R. Parthiban	Editorial Board Member in International Journal of Water Resources and Environmental Engineering	2011 onwards
		Executive Committee Member, IChE CRC	2008 onwards
2.	Dr.P.Senthil Kumar	Associate Editor in Desalination and Water Treatment Journal	2015 onwards
3.	Dr. Anantharaj R	Editorial Board Member of • Journal of Innovative Engineering (JIE)	2012 onwards
		• Journal of Computational Methods in Molecular Design (JCMMD)	2014 onwards
4.	Dr. Balaji D	Executive Committee Member, IChE CRC	2015 onwards

## 22. Student projects

- a) Percentage of students who have done in-house projects including inter departmental/programme
- b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies

Sl. No.	Academic Year	In-house Projects in Percentage	External Project in Percentage
1.	2016-17	66/70 = 94.3%	4/70 = 5.7%
2.	2015-16	53/66 = 80.3%	13/66 = 19.7%
3.	2014-15	65/65 = 100%	Nil
4.	2013-14	36/36 = 100%	Nil
5.	2012-13	23/29 = 79.3%	6/29 = 20.7%
6.	2011-12	13/20 = 65%	7/20 = 35%

## 23. Awards / Recognitions received by faculty and students

**Faculty**

Sl. No.	Name of the faculty	Awards / recognition received
1.	Dr. P. Senthil Kumar	<ul style="list-style-type: none"> <li>• “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.</li> <li>• "Young Scientist Award" from The Professor Venkatachalam Research Foundation, K.S.Rangasamy College of Technology, Tiruchengode</li> <li>• "Young Scientist Award" from Centre for Advanced Research and Design, Venus International Foundation (VIFRA 2015).</li> <li>• Best Paper Award in an International Conference on Green Technology for Environmental Pollution Prevention and Control organized by Dept. of Chemical Engg, NIT Trichy held during 27-29<sup>th</sup> September 2014.</li> <li>• Received Most Cited Authors Award for top cited article in the year 2012 from Elsevier.</li> <li>• Innovative Professional Award from Society of Professional Engineers (India)</li> <li>• Young Scientist Award PEARL Foundation, National Conference on “SMART SUMMIT”</li> </ul>
2.	Dr.K.Jagannathan	<ul style="list-style-type: none"> <li>• Excellent Professional Achievement Award 2016" from Society of Professional Engineers (India)</li> </ul>
3.	Dr.R. Anantharaj	<ul style="list-style-type: none"> <li>• Venus International Foundation Best Young Scientist Award 2016 in Separation Process with Green Solvent</li> <li>• PEARL – A Foundation Best Young Scientist Award in Chemical Engineering 2016</li> </ul>

## 24. List of eminent academicians and scientists / visitors to the department

Date	Name & Address
02-03-12	Prof. V.V.Subramanian, Director, Phycospectrum Environmental Research Centre, Anna Nagar, Chennai 600 040.
	Prof.T.Swaminathan, Chemical Engineering Department, IIT Madras.
01-08-12	Mr. P.K.N.Panicker, Chemech Engineers Pvt. Ltd, Chennai.
31-01-13	Dr.M.Chidambaram, Department of Chemical Engg, IIT Madras.
30-07-13	Mr. Rajiv Moorthy, CEO & Business Head, Murugappa Morsan Thermal Ceramics Limited Chennai.
07-01-14	Mr. N.Ramakrishnan, CMC TECH, E.I.D, Parry, Chennai.
21-03-14	M.Gnanasundaram, DGM Operations - Unit Head Coromandel International Limited, Ennore, Chennai
09-01-15	Dr.A.Subramani, Project Lead, G.E, Bangalore.
27-02-15	Dr.S.Selvan, Jt. Chief Environmental Engineers, TNPC Board , Chennai
17-07-15	Mr. K. Sadanand, Honorary Secretary, IICHe - Chemical Regional Centre & Country Manager, Solenis technologies, Indonesia
31-07-15	Dr. P.S.T. Sai, Professor, Chemical Engineering, IIT Madras
09-02-16	Mrs. Padma, Deputy Manager, Yokogawa India Limited, Bangalore
25-02-16	Dr. P.R. Venugopal, Advisor (Nuclear Technology) Ministry of Defence, Govt. of

	India, New Delhi
26-02-16	Mr. S. Sunil Kumar, Business Director, Henkel Adhesive Technologies, Mumbai
29-02-16	Dr. S. Sundaramoorthy, Dean Academic, Pondicherry Engineering College
03-03-16	Mr. Alexis Haro, Flare & Relief Engineer, Training Manager, Flaresim Ltd, UK
	Mr. Rachit Jain, Application Engineer, NEON Infotech Pvt. Ltd., Indore
12-04-16	Mr. Arjun Kapoor, Product Manager, Image Grafix Engineering Services Pvt Ltd., Chennai
05-08-16	Dr. A. Subramani, Senior Scientist, GE - Aviation, at GE power, Bangalore
12-08-16	Mr. S. Murugaraja, Lead Process Engineer, GE - Power, Bangalore
21-09-16	Prof. N. Anantharaman, Department of Chemical Engineering National Institute of Technology Tiruchy
	Prof. Tamal Banerjee, Department of Chemical Engineering, Indian Institute of Technology Guwahati,
	Prof. Ramesh L. Gardas, Department of Chemical Engineering, Indian Institute of Technology Madras
02-02-16	Dr. G. Anand and Dr. Upasana, Director, Three Ten Initiative Technologies Limited, Chennai
23-04-16 & 24-02-16	Prof. Dr. Eric Van Hullebusch, UNESCO-IHE, The Water institute, The Netherlands
	Prof. Dr. K. Prabakar, Pusan National University, South Korea
	Dr. Chang Siu Hua, Universiti Teknologi, MARA, Penang, Malaysia
	Prof. Dr. Kannan Pakshirajan, Prof. & Head, Department of Bioscience and Bio Engg, IIT Guwahati
	Prof. Dr. Shishir Kumar Behera Prof. & Head, Department of Chemical Engineering, GMR Institute of Technology, AP.
03-03-17	Ms. C. N. Pratheeba, Assistant Professor, Dept. of Chemical Engg., AC Tech, Anna University, Chennai.
17-03-17	Padma Shri. Prof. Ganapati D Yadav, Vice Chancellor, Institute of Chemical Technology Mumbai

## 25. Seminars/ Conferences/Workshops organized &amp; the source of funding

## a) National

Sl. No.	Co-ordinator	Theme/Title	Seminar/ Conference/ Workshop	Date(s)	Fund Source
<b>2016-17</b>					
1.	Dr. P. Senthil Kumar Dr D. Balaji Dr.K.P.Gopinath	Instrumental Methods of Analysis	Training	17 <sup>th</sup> June 2016	SSN Trust
2.	Dr. M. Subramanian Mr. Kilaru HarshaVardhan Mrs.B.Chitra	MATLAB for Process Control	Workshop	20 <sup>th</sup> to 22 <sup>nd</sup> July 2016	SSN Trust
3.	Dr.B.Ambedkar Dr.J.Dhanalakshmi	Introduction to Computational Fluid Dynamics	Workshop	05 August 2016	SSN Trust
4.	Dr.J.Dhanalakshmi Dr.B.Ambedkar	Process Flow Diagram (PFD) and Piping & Instrumentation Diagram (P & ID) for Engineers	Workshop	12 <sup>th</sup> August 2016	SSN Trust
5.	Dr. P Senthil Kumar	Chemical Energy and	Conference	19 <sup>th</sup>	SSN

	Dr.K.P.Gopinath Dr. D. Balaji	Environmental Engineering (CEEE)		August 2016	Trust
6.	Dr. B. Ambedkar Dr. R. Anantharaj	Student Level National Symposium (INVENTE 2k16)	Symposium	9,10 Sep'2017	SSN Trust
7.	Dr.R.Anantharaj Dr.K.Sathish Kumar	Green & Sustainable Technologies for Zero Emissions -2016	Workshop	21 <sup>st</sup> Sept 2016	SSN Trust
8.	Dr. P Senthil Kumar Dr.K.P.Gopinath Dr. D. Gnana Prakash	Writing Scientific Research Paper – Phase II	Workshop	23 <sup>rd</sup> Sep 2016	SSN Trust
9.	Dr.P.Senthil Kumar Dr.K.P.Gopinath Dr.D. Balaji	Modern Separation process in Environmental Applications (MSPEA)	FDP	12 <sup>th</sup> to 19 <sup>th</sup> Dec 2016	SSN Trust
10.	Dr.B.Ambedkar Dr.R.Anantharaj	Sustainable Trends in Energy and Environmental Resources (STEER)	Conference	02 <sup>nd</sup> Feb '2017	SSN Trust
11.	Dr.J.Dhanalakshmi Dr.B.Ambedkar Dr.R.Anantharaj	Advances in Chemical, Biological and Environmental Engineering: (ACBEE)	Conference	09 <sup>th</sup> Feb 2017	SSN Trust
12.	Dr. P Senthil Kumar Dr.K.P.Gopinath Dr. D. Gnana Prakash	Writing Scientific Research Paper - Phase III	Workshop	17 <sup>th</sup> Feb 2017	SSN Trust
13.	Dr.B.Ambedkar Dr.R.Anantharaj Dr.J.Dhanalakshmi	Sustainable Energy and Environmental Science, Engineering and Technology	Conference	03 March 2017	SSN Trust
14.	Dr.R.Anantharaj Dr.K.Sathish Kumar Dr.B.Ambedkar	Green Chemical Process and Sustainable Technologies (GCPST 2017)	Conference	17 <sup>th</sup> & 18 <sup>th</sup> March 2017	SSN Trust
<b>2015-16</b>					
15.	Dr.P.Senthil Kumar Dr.K.Sathish Kumar Dr.R.Anantharaj	Separation Process in Environmental Applications	FDP	24-26 June 2015	SSN Trust
16.	Dr.P.Senthil Kumar	Chemical, Energy and Environmental Engineering (CEEE)	Conference	31-July - 2015	SSN Trust
17.	Dr.B.Ambedkar Dr.J.Dhanalakshmi Dr.N.Varagunapandian	COMSOL Multiphysics	Workshop	11-Sep-2015	SSN Trust
18.	Dr.P.Senthil Kumar	Instrumental Methods of Analysis	Workshop	22-Sep-2015	SSN Trust
19.	Dr.P.Senthil Kumar	Recent trends in clean technology for sustainable environment (CTSE)	Conference	25-Sep-2015	SSN Trust
20.	Dr.P.Senthil Kumar	Writing scientific research paper	Workshop	27-Nov-2015	SSN Trust
21.	Dr.P.Senthil Kumar Dr.K.P.Gopinath Dr.D.Balaji	I Cell chemical engineering seventh one day national conference on recent trends in	Conference	18-March-2016	SSN Trust

		chemical, energy and environmental engineering (CEEE)			
22.	Dr.P.Senthil Kumar Dr.K.P.Gopinath Dr.D.Balaji	One day national workshop on hands on training in instrumental methods of analysis	Workshop	17-June - 2016	SSN Trust
<b>2014-15</b>					
1	Dr. P. Senthil Kumar Dr. K. Sathish Kumar	Recent Trends in Chemical, Energy and Environmental Engineering	Conference	7th Aug 2014	SSN Trust
2	Dr. C. Ravikumar Dr. A. Seenivasan	Recent Practices in Chemical and Pharmaceutical Industries	Workshop	19th Sep 2014	SSN Trust
3	Dr. P. Senthil Kumar Dr. K. Sathish Kumar	Application of Nanotechnology for Pollution Abatement	Seminar	18th Sep 2014	MOES
4	Dr. P. Senthil Kumar Dr. K. Sathish Kumar	Global Warming - Causes, Impacts and Remediation	Seminar	25th Sep 2014	MOES
5	Dr. P. Senthil Kumar Dr. K. Sathish Kumar	Instrumental Methods of Water Analysis	Training	28th Nov 2014	SSN Trust
6	Dr. P. Senthil Kumar Dr. K. Sathish Kumar	Recent Trends in Clean Technology for Sustainable Environment	Conference	5th Dec 2014	SSN Trust
7	Dr. B. Ambedkar Dr.R.Saravana thamizhan	Introduction to Computational Fluid Dynamics (CFD)	Workshop	9th Jan 2015	SSN Trust
8	Dr. M. Subramanian Dr. A. Seenivasan	Three days Training programme on MATLAB and Simulink for Chemical Engineering Applications	Training	5th - 7th Feb 2015	SSN Trust
9	Dr. P. Senthil Kumar Dr. K. Sathish Kumar	Recent Trends in Chemical, Energy and Environmental Engineering (CEEE)	Conference	12th Feb 2015	SSN Trust
10	Dr. P. Senthil Kumar Dr. K. Sathish Kumar	Wastewater Treatment (WWT)	FDP	18-20th Mar 2015	SSN Trust
11	Dr. P. Senthil Kumar Dr. K. Sathish Kumar	Recent Trends in Clean Technology for Sustainable Environment	Conference	10th April 2015	SSN Trust
<b>2013-14</b>					
1	Dr. P. Senthil Kumar	Hands on Training in Atomic Absorption Spectroscopy	Workshop	7th Jun 2013	SSN Trust
2	Dr. P. Senthil Kumar Dr. K. P. Gopinath	Recent Advancements in Adsorption science and Technology	Conference	2nd Aug 2013	SSN Trust
3	Dr. P. Senthil Kumar Dr. K. P. Gopinath	Heavy Metal Analysis Atomic Absorption Spectroscopy	Workshop	8th Aug 2013	SSN Trust
4	Dr. P. Senthil Kumar	Chemical, Energy and Environmental Engineering	Conference	26th Sep 2013	SSN Trust

5	Dr. K. Sathish Kumar Dr.R.Saravanathamizhan	Recent Trends in Nano biotechnology	Conference	4th Oct 2013	SSN Trust
6	Dr. P. Senthil Kumar Dr. K. Sathish Kumar	Instrumental Techniques in Water Analysis	Training	14th Feb 2014	SSN Trust
7	Dr. K. Sathish Kumar Dr. P. Senthil Kumar	Industry Institute Interaction	Seminar	21st March 2014	SSN Trust
8	Dr.R.Saravanathamizhan Dr. K. P. Gopinath	Artificial Neural Network (ANN) Modeling using MATLAB	Workshop	28th March 2014	SSN Trust
<b>2012-13</b>					
1	Dr. P. Senthil Kumar Dr. K. Sathish Kumar	Applications of Nanomaterials	Conference	07th Sep 2012	DRDO
2	Dr. P. Senthil Kumar Dr. K. Sathish Kumar	Chemical, Energy and Environmental Engineering	Conference	16th Oct 2012	SSN Trust
3	Dr. M. Subramanian	MATLAB and MS Excel for Chemical Engineering Applications	Training	31st Jan – 2nd Feb 2013	SSN Trust
4	Dr. P. Senthil Kumar Dr. K. Sathish Kumar	Recent Advancements in Chemical Engineering (RACE)	Conference	26th Feb 2013	SSN Trust
5	Dr. P. Senthil Kumar Dr. K. Sathish Kumar	Nanotechnology for water and Wastewater Treatment	Seminar	15th March 2013	CSIR
<b>2011-12</b>					
1	Dr. P. Senthil Kumar Dr. K. Sathish Kumar	Sustainable Water Resources Management (SWRM)	Seminar	20 - 21 <sup>st</sup> January 2012	MOES
2	Dr. P. Senthil Kumar Dr. K. Sathish Kumar	Recent Trends in Chemical, Energy and Environmental Engineering	Conference	28th Feb 2012	SSN Trust
3	Dr. P. Senthil Kumar Dr. K. Sathish Kumar	Water Pollution & its Control (WPC)	Workshop	2 - 3 <sup>rd</sup> March 2012	MOES
4	Mrs. R. Pushpalatha Mrs. B. Chitra	Computer Applications In Industrial Processes	Workshop	16th March 2012	SSN Trust
5	Dr. K. Sathish Kumar Dr. P. Senthil Kumar	Applications of Nanomaterials	Conference	21st Mar 2012	SSN Trust
6	Dr. P. Senthil Kumar Dr. K. Sathish Kumar	Applications of Nanotechnology in Pollution Abatement	Workshop	23rd March 2012	DRDO
7	Dr. P. Senthil Kumar Dr. K. Sathish Kumar	Recent Advancements in Air Pollution Control (RAAPC)	Seminar	10 <sup>th</sup> & 11 <sup>th</sup> April 2012	MOES



**b) International**

Sl. No.	Co-ordinator	Theme/Title	Seminar/Conference / Workshop	Date	Funded by
<b>2013-14</b>					
1	Dr. K.P. Gopinath Dr. P. Senthil Kumar Dr.R.Saravanathamizhan	Recent Advancements in Chemical, Environmental and Energy Engineering	Conference	27-28 Feb 2014	SSN Trust
<b>2016-17</b>					
2	Dr.V.Jaikumar Dr. K. Jagannathan Dr.K.Sathish Kumar	2nd International Conference on “Recent Advancements in Chemical, Environmental & Energy Engineering” (RACEEE-2017)	Conference	23-24 Feb 2017	SSN Trust

26. Student profile programme/course wise:

**B. Tech.-Chemical Engineering**

Year	Applications received (Mgmt. Quota)	Selected (Mgmt +SWS+LE)	Enrolled		Pass percentage
			*M	*F	
2016-17	4500	69	44	25	
2015-16	3140	62	38	24	
2014-15	2360	64	41	23	
2013-14	2640	70	48	22	
2012-13	1890	67	42	25	

**M.Tech.-Environmental Science and Technology**

Year	Applications received (Mgmt. Quota)	Selected (Mgmt +SWS+LE)	Enrolled		Pass percentage
			*M	*F	
2016-17	82	0	0	0	
2015-16	5	2	-	2	
2014-15	2	13	3	10	

27. Diversity of Students

**B. Tech.-Chemical Engineering**

Year of admission	% of students from the same state	% of students from other States	% of students from abroad
2016-17	98.4	1.6	-
2015-16	100	-	-
2014-15	98.4	-	1.6
2013-14	96.8	3.2	-
2012-13	98.4	1.6	-
2011-12	96.8	3.2	-

**M.Tech.-Environmental Science and Technology**

Year of admission	% of students from the same state	% of students from other States	% of students from abroad
2016-17	-	-	-
2015-16	100	-	-
2014-15	100	-	-

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Sl. No.	Batch	No. of students
1	2007 - 2011	03
2	2008 – 2012	06
3	2009 - 2013	04
4	2010 – 2014	01
5	2011 - 2015	07
6	2012 - 2016	02
7	2013– 2017	12

29. Student progression

Sl. No.	Details of Progression	Progression as a percentage during				
		2012-13	2013-14	2014-15	2015-16	2016-17
1.	UG to PG	12/29 = 41.4%	8/36 = 22.2%	15/65 = 23%	29/66 = 44%	13/70 = 18.6%
2.	UG to Ph.D.	1/29 = 3.45%	Nil	Nil	Nil	1/70 = 1.43%
3.	PG to Ph.D.	Nil	Nil	Nil	Nil	4/12 = 33.3%
4.	Employed through Campus Recruitment	8/29 = 27.6%	22/36 = 61.1%	36/65 = 55.4%	27/66 = 41%	30/70 = 42.9%
5.	Employed other than Campus recruitment	7/29 = 24%	6/36 = 16.6%	6/65 = 9.2%	3/66 = 4.54%	2/70 = 2.86%

30. Details of Infrastructural facilities

a) Library **Department Library: Area 54 sq. m**

S. No.	Year	Added in the Year	Cumulative Total
1.	2016– 2017	25	539
2.	2015 – 2016	115	514
3.	2014 – 2015	60	399
4.	2013 – 2014	63	339
5.	2012 – 2013	31	276
Cumulative Total up to 2011 -2012			245

b) Internet facilities for Staff & Students :

Internet facilities are available for all faculty and students 24x7 with a bandwidth of 310 Mbps, Wi-Fi of 400 access points covering entire Campus

a) Class rooms with ICT facility : **5 Class Rooms & 1 Seminar Hall**

**ICT facilities such as lap top, screen, LCD available in all five class rooms & seminar hall**

Room Description	Usage	Capacity (no. of persons)	Room Equipped with
Lecture halls: 3 in number ( CH 011, CH 04, CH 14)	Class rooms for 2 <sup>nd</sup> year, 3 <sup>rd</sup> year, and final year	112 sq.m. (60)	Laptop, Projector Screen, Multimedia projector, Green board, Benches, Tube lights, fans WiFi enabled
Elective class rooms ( CH 08 & CH09)	Elective class room for 4 <sup>th</sup> Year students	55 sq.m (30)	White Board, Desks, WiFi enabled
Seminar Hall ( CH 05)	Guest lectures, Seminars	196 sq.m (150).	Projector screen, multimedia projector, Laptop, Chairs, Mikes, White board, Loud Speakers, WiFi enabled

c) Laboratories

Sl. No.	Laboratory description in the Curriculum	Cost of equipment in lakh	Area Sq.m
1.	Mechanical operation lab	8.27	241
2.	Fluid mechanics lab	6.00	239
3.	Chemical and Technical Analysis lab	12.76	241
4.	Mass transfer lab	7.28	242
5.	Heat Transfer Lab	4.48	239
6.	Chemical Reaction Engineering Lab	5.88	241
7.	Process control lab	7.45	239
8.	Process Equipment Design & Drawing I & II	-	112
9.	Research Lab	62.87	55

31. Number of students receiving financial assistance from college, university, Government or other agencies

#### **B. Tech.-Chemical Engineering**

Name of the Course	Number of students	SSN Trust	Government
2016-17	180	33	40
2015-16	180	39	45
2014-15	180	37	41
2013-14	180	32	31
2012-13	180	28	28
2011-12	180	22	25

#### **M.Tech. - Environmental Science and Technology**

Name of the Course	Number of students	SSN Trust	Government
2016-17	2	Nil	2
2015-16	14	Nil	4
2014-15	12	3	-

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts:

Sl. No.	Date	Name of the enrichment Programme	Name of expert
1.	31.01.2013 to 02.02.2013	Training Programme on MATLAB and MS-Excel for Chemical Engineering Applications	Dr.M.Chidambaram, & Dr.T.Renganathan, Chemical Engg, IIT Madras
2.	08.08.2016	Guest Lecture 1 Challenges Faced By Chemical Engineers In Space	Mr. Ratnam Dorairaj Associate Project Director (Retd) ISRO
3.	10.08.2016	Guest Lecture 2 The Power Of Habits	Mrs. Srijana Shukla
4.	16.08.2016	Guest Lecture 3 Introduction To Pro-Simulator'	Mr. V Raman Sim Info systems Private Limited.
5.	19.09.2016	Guest Lecture 4 Chemical Engineering in the 21 <sup>st</sup> Century	Dr. K. Krishniah Emeritus Professor (Department of chemical engineering, IIT Madras
6.	02.01.2017	Guest Lecture 5 Current Status Of Fuel Cell Power System	Dr R M Meyyappan, Professor, Dept. of Chemical Engineering, Annamalai University, Chidambaram.
7.	07.02.2017	Guest Lecture 6 Open Source Powered Engineering (Computational Fluid Dynamics)	Mr. SatyakPadhy Co-Founder: Udvavisk Technologies Pvt. Ltd.Shukla
8.	21.02.2017	Guest Lecture 7 Pump Selection- Energy Audit	Mr.Sivanesan Mani Senior Manager Grundfos Pumps Pvt Ltd.
9.	02.02.2017	3 <sup>rd</sup> National Conference On Sustainable Trends In Energy And Environmental Resources (STEER 2K17)	Dr.AnandGovindrajan and Dr.V.UpasanaManimegalaiSridharan 310i technologies private limited

33. Teaching methods adopted to improve student learning

- Computer assisted E-learning is practiced for teaching, which helps to cover the syllabus in time and show them virtual models and animations of processes which are difficult to explain with black-board and chalk.
- Assignments were also given in current trend for learning of latest techniques and effective understanding of theory.
- Industrial visits and tours are arranged once in a year to help the students in visualizing the reality. Students are encouraged to undergo in-plant training and

interns in research labs during their semester vacations.

- Personality development training programmes are conducted at their third and final year of study so as to equip them for placement. Guidance is given for competitive exams such as GATE, GRE, etc.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities  
The college has two schemes to take care of the social activities

- National Student Service Scheme (NSS)
- Youth Red Cross Society (YRC).

35. SWOC analysis of the department and Future plans

### **Strengths**

- Competent and experienced faculty and staff
- High Retention ratio of faculty
- Highly-equipped laboratory infrastructure
- Well stocked library, online journal resources to meet the requirement of students and faculty
- Extra laboratory facilities to carryout experimental and innovative project works
- Separate computing facilities with state-of-the-art software
- Active research programs supplemented by funding from SSN Trust and external agencies viz. DST
- Merit based admissions
- High recognition and respect of the department among its peers
- Excellent faculty retention
- Good interaction with the industry and professional bodies

### **Weaknesses**

- Requirement of specialized research equipment for enhanced learning
- Being an affiliated institute current trends could not be introduced in the syllabus
- Lack of opportunities for industrial exposure during the course of study

### **Opportunities**

- Scope for providing consultancy in areas of Instrumental Analysis, Process Simulation Software viz. ASPEN, CFD etc.
- Internships on research and industry-relevant projects for students
- MoUs to develop novel processes and products

### **Challenges**

- To scale up the consultancy work in chemical engineering related fields viz., food, petroleum, biotechnology and nanotechnology and to attract sponsored projects.
- To motivate the students to select product development and industry related problems in the project work.
- To strengthen the department to have close interaction with leading Chemical industries.
- To Guide the students to opt their career in PSU and core industries

**Future plans**

- Chemical Engineering department aims to develop “Centre for Excellence”
  - “Water Research”
  - “Green Technology”
- To start an interdisciplinary PG course in “Industrial Safety Engineering”

## EVALUATIVE REPORT OF THE DEPARTMENT OF BIOMEDICAL ENGINEERING

1. Name of the department: **Biomedical Engineering (BME)**
2. Year of Establishment: **2005**
3. Names of Programmes / Courses offered (UG, PG, M. Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.):  
  
**UG: B.E. Biomedical Engineering,**  
**PG: M.E. Medical Electronics and**  
**M.S. & Ph.D. by Research**
4. Names of Interdisciplinary courses and the departments / units involved  
  
**Nil**
5. Annual / semester / choice based credit system (programme wise)

### All Programmes are by Semester System only

6. Participation of the department in the courses offered by other departments

Sl. No.	Dept.	Semester	Title of the Course
1	IT	III	CS6304- Analog and digital communication
2	IT	II	IT6211- Digital Lab
3	IT	II	CS6201- Digital principles and system design

7. Courses in collaboration with other universities, industries, foreign institutions, etc.  
  
**Nil**
8. Details of courses / programmes discontinued (if any) with reasons  
  
**Nil**
9. Number of teaching posts

Degree	Designation	Sanctioned	Filled
UG	Prof.	1	1
	Asso. Prof.	4	4
	AP	7	7
PG	Prof.	1	-
	Asso. Prof.	1	2
	AP	1	1

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D./M.Phil.)

Sl. No.	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students Guided for the last 4 years
1	Dr. A. Kavitha	M.S (by Research), Ph.D.	Prof. & Head	Medical image and signal processing	19.5	4
2	Dr.V.Mahesh	Ph.D.	Asso. Prof.	Biomedical instrumentation	9.9	5
3	Dr.S.Pravin Kumar	Ph.D.	Asso. Prof.	Medical signal processing	14.5	-
4	Dr.L.Suganthi	Ph.D.	Asso. Prof.	Mathematical modeling, and Embedded system.	6.10	-
5	Dr.R. Sivaramakrishnan	Ph.D.	Asso. Prof.	Medical image processing, Biomaterials	15.8	-
6	Dr.S.Bagyaraj	Ph.D.	Asso. Prof.	Biomedical Instrumentation	11.10	-
7	Dr. J. Vijay	Ph.D.	Asso. Prof.	Medical Electronics & Medical Informatics	9.10	2
8	Dr.SachinGaurishankar Sarate	M.B.B.S., M.Tech.	Asst. Prof.	Tissues Engineering, Biomaterials	7.11	-
9	Mrs.B. Geethanjali	M. Tech.	Asst. Prof.	Brain cognition	15.1	-
10	Mrs. K. Nrimala	M.E.	Asst. Prof.	Medical image Processing	14	-
11	Mrs.M. Dhanalakshmi	M.E.	Asst. Prof.	Medical image & signal processing	12	-
12	Ms.R.Nithya	M.E.	Asst. Prof.	Medical image processing, Assist device	9.2	-
13	Dr.R.Subashini	M.Sc., Ph.D.	Asst. Prof.	Molecular biology, Tissue engineering	9.1	2
14	Ms. N. Laxmi	M. Tech.	Asst. Prof.	Biomedical Engineering	5	-
15	Ms. Divya B	M. Tech.	Asst. Prof.	Biomedical Engineering	4.8	-

11. List of senior visiting faculty **Nil**

12. Percentage of lectures delivered and practical classes handled by temporary faculty: **Nil**



## 13. Student-Teacher Ratio (programme-wise)

Sl. No.	Programme	Students	No. of Faculty#	STR
1	UG	180	12	1:15
2	PG	36	3	1:12

## 14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

Sl. No.	Type	Sanctioned	Filled
1	Technical	5	5
2	Administrative	3	3

## 15. Qualifications of teaching faculty with D.Sc./D.Litt./Ph.D./M. Phil./PG.

Sl. No.	Number of Faculty with Qualification			
	M.B.B.S.	Ph. D.	M. Phil.	PG
1	1	8	-	6

## 16. Number of faculty with on going projects from

a) National b) International funding agencies and grants received

Sl. No.	Nature of Project	Number of Faculty
1	National	4
2	International	3

## 17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received

Sl. No.	Faculty	Title of Project	Funding Agency	Amount (in Lakh)		Date of Approval	Status
				Sanctioned	Received		
1	Dr. S. Guruprakash, Dr. R. Subashini	Nano-particle based strategies to combat orthopedic implant associated infections	SSN Trust	6	6	2014	On going
2	Dr. A. Kavitha	Implementation of finite element analysis (FEA) in bone biomechanics for designing suitable implants using MIMICS and 3D printing technology	SSN Trust	7	7	2015	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	Mrs.R.Nithya	Design and development of orthotic exoskeleton for lower limb rehabilitation	SSN Trust	1.5	Nil	Oct 2016	On going
6	Dr.V.Mahesh	Attention enhancement system using VR for ADHD patients	SSN Trust	0.13	0.13	Oct 2016	On going
7	Dr. Sachin GS	Temperature measurement for hypoglycemic condition	SSN Trust	0.18	Nil	Oct 2016	Yet to begin
8	Dr.R.Subashini	Investigation and design of dielectric resonator antenna	SSN Trust	0.25	-	Oct 2016	Yet to begin
9	Mrs.M.Dhanalakshmi	External aid for Amyotrophic Lateral Sclerosis(ALS) patients	SSN Trust	0.25	Nil	Oct 2016	Yet to begin
10	Mrs.R.Nithya	Development of lower extremity exoskeleton	SSN Trust	0.18	Nil	Oct 2016	Yet to begin
11	Mrs.R.Nithya	Development of electronic nose for the	SSN Trust	0.25	0.9	Oct 2016	Yet to begin

		diagnosis of tuberculosis					
12	Mrs. J.Delpha, Mrs. B.Divya	Indian Sign language converter using surface EMG.	SSN Trust	0.25	Nil	Oct 2016	Yet to begin
13	Mrs.N.Laxmi	EOG controlled motorized wheel chair for disabled	SSN Trust	0.25	Nil	Oct 2016	Yet to begin

**External funded projects**

Sl. No.	Faculty	Title of Project	Funding Agency	External Grant in Lakh	Date of Approval	Status
1	Dr. A. Kavitha and R. Nithya	Development of Hand exoskeleton	Recycl3DPlane t, Calgary, Canada	5	May 21 <sup>st</sup> 2017	Ongoing
2	Dr. A. Kavitha	Prediction of Inner Voice using Speech Imagery	Broad Area : Life Sciences Sub Area : Health Sciences - DST-SERB - Extra Mural Research Funding (Individual Centric)	31.69	Under Review	Under Review
3	Dr. SachinGaurishan kar	Analysis of hand arm vibrations in sportspersons	AICTE	14.23	Under Review	Under Review
4	Dr. V. Mahesh	Enhancement of Brain Cognition on Young Learners through Simplified Kundalini Yoga (SKY) based on Computational Neuro Physiological Models	DST-SATYAM	49.7	Under Review	Under Review
5	Dr. V. Mahesh	Computer- aided diagnosis for EMG and EEG	BIRAC	49.8	Under Review	Under Review

18. Research Centre / facility recognized by the University

**The department has been recognized as a Research Centre by Anna University from Jan 2014 for doing independent research leading to MS/ Ph.D.**

## 19. Publications:

\*\* - Impact Factor; \* - Citation Index

Sl. No.	Faculty	Designation	Conf .	Jour.	Citation Indices #				
					CI*	SNJP	SJR	IF**	h-index
1.	Dr. A. Kavitha	Professor & Head	27	15	38	0	0	0-2.2	4
2	Dr. V. Mahesh	Asso. Prof.	27	9	65	0	0	0- 0.9	4
3	Dr. S. Pravin Kumar	Asso. Prof.	19	6	88	0	0	0-2.24	2
4	Dr. S. Guruprakash	Asso. Prof.	-	4	400	0	0	0.2-15.8	10
5	Dr. L. Suganthi	Asso. Prof.	3	2	17	0	0.19	0-2.88	3
6	Dr. R. Sivaramakrishnan	Asso. Prof.	2	11	3	0	0	0.25-1.7	1
7	Dr.S.Bagyaraj	Asso. Prof.	-	-	5	0	0	-	2
8	Dr. J. Vijay	Asso. Prof.	-	-	32	0	0	0.541-1.82	4
9	Dr. R. Subashini	Asst. Prof	9	9	365	0	0	0.22-0.4	9
10	Ms. B. Geethanjali	Asst. Prof	26	15	60	0	0	0.23-.967	4
11	Dr.G. S Sachin	Asst. Prof	-	-	-	0	0	-	-
12	Ms. M. Dhanalakshimi	Asst. Prof	1	6	35	0	0	-	3
13	Ms. R. Nithya	Asst. Prof	2	3	4	0	0	-	1
14	Ms.D. Kanchana	Asst. Prof	-	-	-	0	0	-	-
15	Ms. J. Delpha	Asst. Prof	1	-	1	0	0	-	1
16	Ms.K. Nirmala	Asst. Prof	3	3	12	0	0	0-0.877	2
17	Ms B Divya	Asst. Prof	-	-	-	-	-	-	-
18	MsLaxmi	Asst. Prof	-	-	-	-	-	-	-
19	MsRichaMalviya	Asst. Prof	-	-	-	-	-	-	-

**Chapter in Books:**

Sl. No.	Author Name	Chapter & Book Publisher with year	Publisher & Year
1	Dr. A. Kavitha	Implant Analysis on the Lumbar-Sacrum Vertebrae Using Finite Element Method, Advances in 3D Printing & Additive Manufacturing Technologies ,	Springer,2016
2	Dr. V. Mahesh	Texture Analysis of Carotid Plaque Ultrasound Images, Advanced Approaches To Intelligent Information And Database Systems,	Springer International Publishers, Switzerland, 2014
3	Dr. V. Mahesh	Innovative Electronic System Design Projects”, Edited By Dr. CP. Ravikumar, Texas Instruments,	Chitkara University Press, 2014
4	Dr. S. Guruprakash	Bridging the gap between in vitro and in vivo evaluation of Biomaterial – Associated infections, Biomaterials Associated Infection Immunological aspects and Antimicrobial Strategies,	Springer International, 2013
5	Dr. S. Pravin Kumar	Circuit Analysis, Circuit Theory,	Vikas Publishers, 2013
6	Dr. V. Mahesh	Design of Cranial Electrotherapy Stimulator andAnalyzing it with EEG’, CCIS 102, pp. 42-45	SPRINGER, Verlag - Berlin Heidelberg,2010
7	Dr.J.Vijay	Image Retrieval Systems in PACS Environment,	LAP Lambert Academic Publishing, German, 2016, ISBN – 13: 978-3-330-00062-9.
8	Dr.J.Vijay	Basic Electrical Engineering	Scitech Publications, Chennai, ISBN – 978-81-8371264-4

## 20. Areas of consultancy and income generated:

Sl. No.	Faculty	Organization to which consultancy is offered	Area of consultancy	Amount (in lakhs)
1	Dr. Pravin Kumar, Mrs. B. Geethanjali and Dr. Mahesh	National Instruments (NI) Pvt. Ltd	Biomedical Image Processing	0.4
2	Dr. Pravin Kumar, Mrs. B. Geethanjali and Dr. Mahesh	National Instruments (NI) Pvt. Ltd	Biomedical Instrumentation	0.5
3	DrA.Kavitha, MsR.Nithya and MsD.Kanchana	Horizon Engineering solutions, Waterloo, Canada	Bio Mechanics	7
4	Dr.L.Suganthi	With Merkel Haptic Systems A spin off company of IITM.	Biomedical Instrumentation	0.4

21. Faculty as members in a) National committees b) International Committees c) Editorial Boards.

Sl.No	Faculty	Membership	Year
1	Dr A.Kavitha	Syllabus framing committee in the Board of Studies, Anna University	December 2016 onwards
2	Mrs Geethanjali.B	Syllabus framing committee in the Board of Studies, Anna University	December 2016 onwards
3	Dr.R. Sivaramakrishnan	Technical Program/Steering Committee member for the International Conference on Signal Image Processing Communication & Automation (ICSIPCA 2016)	December 14-17, 2016
4	Dr. A. Kavitha	Syllabus Subcommittee for B.E Biomedical Engineering and B.E Medical Electronics, Anna University, Chennai, R-2017 under the Faculty of Information and Communication Engineering	October 2016
5	Dr. V. Mahesh	Syllabus Subcommittee for B.E Biomedical Engineering and B.E Medical Electronics, Anna University, Chennai, R-2017 under the Faculty of Information and Communication Engineering	October 2016
6	Dr. L. Suganthi	IEEE, ISTE, IETE	December 2016, 2003, 2006
7	Dr.S.Bagyaraj	Biomedical Engineering Society of India- Life member	2010
8	Dr.J.Vijay	IEEE (EMBS Society), ISTE Life member, Institution of Engineers (IE India), International Association of Engineers (IAENG), International Association of Computer Science and Information Technology (IACSIT), Universal Association of Computer and Electronics Engineers (IRED), International Society for Environmental Information Sciences (ISEIS)	2017, 2013, 2015, 2010, 2012, 2012, 2014
9	Ms. K. Nirmala	IEEE, ISTE membership	December 2016, 2008
10	Dr. Sachin G	Life membership of Indian Association of Occupational Health	October 2016 onwards
11	Ms.M. Dhanalakshmi	IEEE Membership	December 2016 onwards
12	Ms. B. Divya	IEEE Membership	December 2016 onwards

22. Student projects:

a) Percentage of students who have done in-house & external projects

Sl. No.	Year	No. of projects / batches	In-house Project	Project done outside the college (%)
1	2017	25	100	0
2	2016	25	100	0
3	2015	24	98.5 (23 in-house)	1.5
4	2014	23	100	0
5	2013	22	95.4 (21 in-house)	4.6
6	2012	24	95.8 (23 in-house)	4.2

### 23. Awards/Recognitions received by faculty and students

#### Faculty

Sl. No.	Faculty	Year	Awards/Recognition (Best paper, Best poster, etc.,)
1	Dr. A. Kavitha	2015-16	Member, Board of Studies of the Faculty of Information and Communication Engineering of Anna University, Chennai
		2016-17	Member of the Board of Studies of the Faculty of Information and Communication Engineering of Anna University, Chennai
			Best Paper Award for paper titled "Vowel Classification from Imagined Speech using Sub-band EEG Frequencies and Deep Belief Net-works" in the Fourth International Conference on Signal Processing, Communications and Networking (ICSCN'17), held at MIT Campus, Anna University, Chennai during 16th-18th March 2017
2	Dr. V. Mahesh	2012-13	Texas Instruments design contest award, Schneider - Electric India Award
		2015-16	Best paper Award for "Automatic Segmentation of Carotid Intima-Media Thickness and Analysis of Significant Features" in International Conference on Advances in Science, Management and Engineering organized by International Organization of Scientific Research and Development (IOSRD), India
		2016-17	Member, Board of Studies of the Faculty of Information and Communication Engineering of Anna University, Chennai
3	Dr. S. Pravinkumar	2011-12	BioLim® Best Prototype Award
		2012-13	Schneider - Electric India Award
		2014-15	Texas Instruments Consolation Prize
4	Mrs. B. Geethanjali	2012-13	Texas Instruments design contest award, Schneider - Electric India Award
		2014-15	Texas Instruments consolation prize
		2016-17	The Bangalore mirror newspaper published research work done by Ms. B. Geethanjali as an article titled "Here's why South Indians are the sharpest of the lot. Music to your ears?" Link: <a href="http://tinyurl.com/hrzluj3">http://tinyurl.com/hrzluj3</a>
		2016-17	Won Second prize in the project colloquium organized by CSI student chapter of SSN college of Engineering.
5	Dr. R. Sivarama Krishnan	2015-16	Recognized as a PhD supervisor by Anna University under the Faculty of Information and Communication Engineering
		2016-17	Nominated as a reviewer for the 30th IEEE International

			Symposium on Computer-Based Medical Systems - IEEE CBMS 2017, scheduled to take place in Thessaloniki, Greece from 22nd to 24th of June 2017
6	Dr. Mallika J	2015-16	Appointed as an external examiner for the Ph D thesis titled "Synthesis of polymer-inorganic hybrid anti-cancer drug Nano system and evaluation of their anticancer Potential" submitted to Cairo University, Giza, Egypt
7	Ms.J.Delpha	2016-17	Best Paper award, "Analysis of Pulse Wave for Early Detection of Cardiac Risk in Diabetic Patient", International Conference on Signal Processing, Control and Data Analytics (ICSD 2016) in San Diego, USA
		2016-17	Won first prize cash award Rs.50,000, in the "National Contest for Demonstrating Innovative Prototypes for Start-Ups" in the Project contest organized by the National Research Development Corporation (NRDC) in collaboration with National Scientific And Industrial Research (NSIR), Ministry of Science and Technology, Government of India
8	Dr.L.Suganthi	2016-17	Recognized as a supervisor for guiding Ph.D. scholars of Anna University under the Faculty of Information and Communication Engineering
9	Mrs. K. Nirmala	2016-17	Best Paper Award of the Session for a paper titled 'Breast Cancer Response Post NeoAdjuvant Chemotherapy Using MRI Measurement' in the 4th International Conference on Signal Processing, Communications and Networking held on 16th-18th, March 2017

**Students**

Sl. No.	Academic Year	Paper Presentation / Poster Presentation / Best Project / Others	National	International
1	2011-2012	8	7	1
2	2012-2013	6	5	1
3	2013-2014	5	4	1
4	2014-2015	1	0	1
5	2015-2016	10	0	10
6.	2016-2017	18(Papers)+2(projects)	2(projects)	18(papers)

## 24. List of eminent academicians and scientists/visitors to the department

Sl. No.	Name/ Scientist / Academician / Doctor/ Industry	Date
1	Mr. Omar Saleh, Founder and CEO of Recyl3D Planet and Ms. Nicole McCallum, Executive Director, Recycl3D, Calgary, Alberta, Canada.	16.03.2017
2	Dr LaxmiIyer Co-founder and Managing Director Biotechin. Asia Singapore	16.03.2017
3	Dr.G.Sudhir Ortho Spine surgeon, SRMC	16.03.2017
4	Dr.Devanathan ,Chief Medical officer at Advanced First Aid Research Pte Ltd, Singapore	17.03.2017
5	Mr. G. Karthikeyan, Co-Founder, Wildbox Technologies, Singapore.	17.03.2017



6	Dr.Debdoot Sheet is an Assistant Professor of Electrical Engineering at the Indian Institute of Technology Kharagpur and founder of Skin Curate Research	18.03.2017
7	Mr. HrushikeshGarud is a Senior Software engineer in Texas Instruments (I) Pvt. Ltd. in Bengaluru and a Doctoral researcher in IIT Kharagpur.	18.03.2017
8	Dr.SriramBalasubramanian, Ph.D. Associate Professor in the School of Biomedical Engineering, Science and Health Systems at Drexel University in Philadelphia, US	28.03.2017
9	VigneswaranNarayanamurthy, Faculty of Electrical and Electronics Engg., University Malaysia Pahang, Malaysia.	01.02.2017
10	Dr Ganesh Murthy CNS, Principal Engineer, Mercedes-Benz Research and Development India, Pvt Ltd, Bangalore.	23.02.2017
11	Dr.Kayalvizhi, Head, Department of BME, Agni College of Technology, Chennai.	23.02.2017
12	Dr Suganthi S.S, Technical Lead Tata Elxsi, Chennai.	24.03.2017
13	Dr Kumar Rajamani, Manager (Technical), Robert Bosch, Bangalore	24.03.2017
14	Dr. Sunder, MBBS, MD - Physical Medicine & Rehabilitation	06.02.2017
15	Dr.UmaraniJayaraman, AP of Computer Science, IIITDM Kancheepuram	17.02.2017
16	Dr. Paul Kumaran, Scientist E, National Institute for Research in Tuberculosis (ICMR), Madurai, Tamil Nadu, India.	17.09.2016
17	Mr.VigneshBaskaran, Data Scientist, Darts-ip, Master of Artificial Intelligence, KU Leuven Belgium	23.11.2016
18	Dr.VivekIndramohan, School of Health Sciences, Birmingham City University	28.11.2016
19	Mr. Mark Whaley, Deputy Mayor from the city of Waterloo and the president of Horizon Engineering Solutions, Waterloo, Canada	05.05.2016
20	Mr. HariharanKrithivasan, CEO, Horizon Engineering Solutions, Waterloo, Canada, USA	05.05.2016
21	Dr Kumar Rajamani, Architect at Robert Bosch Engineering and Business Solutions Ltd.	16.04.2016
22	Dr Raj Kanna MBBS, M.S Orthopaedics, D.N.B Orthopaedic Surgery, Joint Replacement Fellowship, Clinical knee fellow 1) Consultant Knee Surgeon, Apollo Hospitals, Vanagaram, Chennai.) Consultant Knee Surgeon, Prashanth Hospitals, Chetpet&Velachery Chennai. 3) Consultant Knee Surgeon, Dr Kanna ' s Knee & Ortho Clinic, Anna Nagar Chennai. 4) Assistant Professor,SRM Medical College Kattankulathur, Chennai.	13.04.2016
23	Dr.R.Vasanthakumari, Director, Polymer, NanoTechnology Centre B.S.Abdur Rahman University	31.03.2016
24	Mr. R. Ranjith, Principal, MERF-Institute of Speech and Hearing, Chennai Chief Audiologist, Madras ENT Research Foundation, Chennai	23.03.2016
25	Dr.P.ABaskar M.D. (General Medicine), D.M. (Neurology) Ph.D. (Neurology Emeritus Professor Neurology, Dr.MGR Medical University and Senior Consultant Neuro-physician)	09.03.2016

26	Dr.Tanuja Britto, Professor and Head ophthalmology department, Joseph Eye Hospital , Trichy	07.03.2016
27	Dr.Balasubramanian Raman ,Associate Professor, Department of Computer Science & Engineering and Head of the Computer Centre, IIT- Rookie	04.03.2016
28	Dr. Goutam Thakur, Associate Professor, Department of Biomedical Engineering, Manipal Institute of Technology	04.03.2016
29	Dr.K.Purna Sai, Senior scientist and Head, Assistant professor, Biological Sciences , ACSIR	03.03.2016
30	Dr. S. Narayana Kalkura, Director and Professor, Crystal Growth Centre, Anna University Chennai	03.03.2016
31	Dr. Alok R. Ray, Consultant Professor at School of International Biodesign, AIIMS, Delhi	03.03.2016
32	Dr.R.Suresh, Professor, VIT University, Vellore	22.02.2016 & 23.02.2016
33	Prof. Bing- Hao Luo, Louisiana State University, USA	08.01.2016
34	Mr. Dinesh, Helix Corporation, Bangalore/Industry	21.10.2015
35	Mr. Saravanan, SMK IMI, Chennai//Industry	20.10.2015
36	Mr Ram Kadambi, CEO, Aries Biomed Tech Solutions//Industry	04.08.2015
37	Mr. Shantha Kumar, Application Engineer, National Instruments, Bangalore/Industry	27.08.2015
38	Dr. Vijayalakshmi - Dept., of Genetics from SRU, Chennai/Academician	21.03.2015
39	Dr. Prashant Kumar Srivatsava - Dept., of Mathematics, IIT Patna/ Academician	21.03.2015

25. Seminars/Conferences/Workshops organized & the source of funding a) National b) International

Sl. No.	Coordinator	Conference theme	Date(s)	Funded by
<b>International</b>				
1	Dr.L.Suganthi and Ms.D.Kanchana	Three days 2 <sup>nd</sup> International Conference on Bio Signals, Images and Instrumentation	19.3.15 to 21.3. 2015	SSN Trust
2	Ms.M.Dhanalakshmi and Ms.R.Nithya	International Conference on Biosignals, images and instrumentation (ICBSII 2017).	16.3.17 to 18.3.17	SSN Trust & IEEE
<b>National</b>				
1	M. Dhanalakshmi and R. Nithya	National level seminar on transforms in signal and image processing	25.7.13 & 26.7.13	AICTE
2	Dr.S.Pravin Kumar and Dr.S.Guruprakash	National conference on Bioelectronics, Biomaterials and Medical Devices	21.3.14	SSN Trust
3	M. Dhanalakshmi and R. Nithya	FDP on Advanced digital signal and image processing	5.11.14 & 6.11.14	SSN Trust

4	Mrs. B. Geethanjali, Dr. V. Mahesh and Dr. S. Pravin Kumar	Hands on workshop on Control system and simulation using LabVIEW	27.8.15	SSN Trust
5	Dr. V. Mahesh, Dr. S. Pravin Kumar, Mrs. B. Geethanjali	A technical talk and demonstration on Multi Channel Wireless Telemetry System	20.10.15	SSN Trust
6	M. Dhanalakshmi,	Workshop on Digital signal processing for III year biomedical students	22.2.16 & 23.2.16	SSN Trust
7	Dr.R.Sivaramakrishnan and Dr.R.Yuvaraj	Two Day National Conference on Advancements in Biomedical Engineering and Sciences (NCABES 2016)	3.3.16 & 4.3.16	SSN &ICMR
8	MsDelpha.J	National Biomedical Lecture Series for the month of April 2016 - "Advancements in Knee surgery	13.4.16	SSN Trust
9	MsDelpha.J	National Biomedical Lecture Series for the month of April 2016 - "Medical Image Registration and Image segmentation using active contours"	16.4.16	SSN Trust
10	MsDelpha.J and Ms. B.Divya	IEEE EMBS - Seminar on Statistical Methods for Bio-signal and Image Processing	23.2.17 & 24.2.17	SSN Trust

## 26. Student profile programme/coursewise:

Course	Year	Applications received (Mgmt. Quota)	Selected (Mgmt +SWS+LE)	Enrolled		Percentage Selected
				*M	*F	
B.E. (BME)	2012-13	1890	62	18	44	
	2013-14	2640	63	17	46	
	2014-15	2360	66	24	42	
	2015-16	1706	62	18	44	
	2016-17	853	53	43	10	
M.E. (Medical Electronics )	2014-15	2	11	4	7	
	2015-16	7	15	4	11	
	2016-17	9	7	1	6	

\*M=Male \*F=Female; # till second semester

## 27. Diversity of Students

Sl. No.	Academic Year	% of students from the same state	% of students from other States	% of students from abroad
UG (BME)	2011-2012	92.3(60)	3.07(2)	4.61(3)

	2012-2013	95.52(64)	4.47(3)	Nil
	2013-2014	96.88(62)	3.12(2)	Nil
	2014-2015	98.43(63)	Nil	1.56(1)
	2015-2016	97(64)	3(2)	Nil
	2016-2017	100(54)	Nil	Nil
PG (Medical Electronics)	2014-2015	100(11)	Nil	Nil
	2015-2016	100(15)	Nil	Nil
	2016-2017	100(7)	Nil	Nil

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Sl. No.	Academic Year	No. of Students Cleared GATE/GRE/TOEFL
1	2011-2012	32
2	2012-2013	10
3	2013-2014	9
4	2014-2015	10
5	2015-2016	10
6	2016-2017	10

29. Student progression

Sl. No.	Student Progression	Expressed as a percentage in the year					
		2016-2017	2015-16	2014-15	2013-14	2012-13	2011-12
1	UG to PG	Results are yet to be published	14.92	18	11.9	17.7	54.23
2	PG to M. Phil.	NA					
3	PG to Ph.D.	Results are yet to be published	Nil	Nil	Nil	Nil	3.4
	<b>Placement</b>						
4	Through Campus	80.39	74.62	62.12	74.62	53.22	69.5
5	Off Campus	5.8	7.4	-	-	3.22	20.33

30. Details of Infrastructural facilities a) Library b) Internet facilities for Staff & Students  
c) Class rooms with ICT facility d) Laboratories

**a) Department Library**

Total No. of books upto 2013-14 – (801)

Year	Amount Allotted (in Rs.)	No. of Titles	No of Books Purchased	Cumulative total books	Reading Area
2014-15	50000	15	21	822	54 sq.m.
2015-16	50000	8	8	830	54 sq.m.
2016-17 (till date)	50000	12	16	846	54 sq.m.

**b) Internet Facilities for Staff & Students**

Internet facilities are available for all faculty and students 24/7  
Band width 310 Mbps & the entire campus is Wi-Fi enabled

**c) Class rooms with ICT facility**

Room Description	No. of Rooms	Capacity	Rooms Equipped with
Class Rooms	6	112 sq. m.	Laptop, Projector Screen, Multimedia projector, Green board, Benches, Tube lights, fans, UPS power points, Amplifiers, Mic
Seminar room	1	196 sq. m.	Projector screen, Multimedia projector, Laptop, Chairs, Mic: cordless & with cord, White board, Loud Speakers, UPS points

**d) Laboratories**

Laboratory Name	Space	Instruments Available
Biomedical Instrumentation Lab	241 sq. m/30 students	Surgical Diathermy, Bio-signal Acquisition Amplifiers, BIOPAC, Patient Monitoring System, Digital Storage Oscilloscopes, Intel Core 2 duo, 2 GB RAM ,320GB HDD, LCD Monitor
DTE lab	239 sq. m/30 students	Ventilator, Telemetry system, Pacemaker, Defibrillator, Ultrasound Scanner, Ultrasound Diathermy
Medical Software Lab	241 sq. m/30 students	Microprocessor(8085,8086-each 30Nos) and Microcontroller (8051-30 Nos),DSP Processor(TMS320C6713- 30Nos),Matlab Software, Intel Core i5,4GB RAM,500GB HDD,LED Monitor
Bioelectronics Lab	239 sq. m/30 students	Cathode Ray Oscilloscopes, Function Generators, Decade Capacitance and Resistance Boxes, Active and Passive devices
Bioscience Lab	239 sq. m/30 students	Microscopes, test tubes and other glass accessories

31. Number of students receiving financial assistance from college, university, Government or other agencies

**B.E. – Biomedical Engineering**

Agency	Number of students provided with financial assistance in Years					
	2016-2017	2015-16	2014-15	2013-14	2012-13	2011-12
By SSN Trust	24	36	29	31	29	24
Government	33	38	27	22	9	6

**M.E. – Medical Electronics**

Agency	Number of students provided with financial assistance in Years					
	2016-2017	2015-16	2014-15	2013-14	2012-13	2011-12
By SSN Trust	1	-	-	Not Applicable		

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts

Sl. No.	Date	Name of the enrichment Programme	Name of expert
1	28.11.16	Seminar on "Advancements in Biomedical Engineering"	Dr. VivekIndramohan, School of Health Sciences, Birmingham City University.
2	23.11.16	Lecture on Deep learning	Mr.VigneshBaskaran, Data Scientist, Darts-ip, Master of Artificial Intelligence, KU LeuvenBelgium (SSN Alumnus)
3	1.9. 2016 & 2.9.2016	Hands on Workshop on PIC Micro-controller programming	Galwin Technologies Trichy
4	4.08.16	A Hands-on workshop on cardio-thoracic equipments	Bio-Vision Medical Systems
5	16.4.16	National Biomedical Lecture Series for the month of April 2016 -"Medical Image Registration and Image segmentation using active contours"	Dr Kumar Rajamani, Architect at Robert Bosch Engineering and Business Solutions Ltd
6	13.4.16	National Biomedical Lecture Series for the month of April 2016 -"Advancements in Knee surgery"	Dr Raj Kanna MBBS, M.S Orthopaedics ,D.N.B Orthopaedic Surgery ,Joint Replacement Fellowship,Clinical knee fellow
7	31.3.16	National Biomedical Lecture Series for the month of March 2016 -"Polymers for medical applications : Macro to nano"	Dr.R.Vasanthakumari, Director, Polymer, NanoTechnology Centre B.S.Abdur Rahman University, Chennai
8	23.3.16	National Biomedical Lecture Series for the month of March	Mr. R. Ranjith Principal, MERF-Institute of Speech and Hearing,

		2016 - Restoring Hearing through Technology	Chennai & Chief Audiologist, Madras ENT Research Foundation, Chennai
9	9.3.16	National Biomedical Lecture Series for the month of March 2016 - Visual Evoked Potential - Principle and Clinical applications	Dr.P.ABashar M.D. (General Medicine), D.M. (Neurology) Ph.D. (Neurology), Kovai Medical Centre and Hospital, Coimbatore.
10	7.3.16	National Biomedical Lecture Series for the month of March 2016 - "Lasers in Ophthalmology & OCT"	Dr.Tanuja Britto, Co Convener & Controller of Examinations, OTTC - DOOT, CMAI, India, Deputy Director - CBR, Professor & HOD, Low Vision & Squint Services, Paediatric Ophthalmology Department, Institute of Ophthalmology, Joseph Eye Hospital, Tiruchirappalli
11	22.2.16 & 23.2.16	Workshop on Digital signal processing	Dr.R.Suresh, Prof, VIT University, Vellore
12	8.1.16	Seminar on "Integrin signaling: Interaction of cells with environment"	Prof. Bing- HaoLuo, Louisiana State University, USA
13	21.10.2015	Technical talk and Demonstration on Fluke Electrical safety and diathermy Analyzer	Mr. Dinesh, Helix Corporation, Bangalore
14	27.8.2015	Workshop on Control system and simulation using labview	Mr.Shantha Kumar, Application Engineer, National Instruments

### 33. Teaching methods adopted to improve student learning

- The faculty provide the details of lecture to be given, well in advance in the Intranet, which the students can see, study at their own pace and location and come to the class prepared. To facilitate this, the entire campus is WiFi enabled.
- Chalk and Talk, Power point presentation, Regular internal assessment and its follow up for improvement.
- Tutorial classes are provided for problem based courses and to attend the students queries
- Large number of books and journals are available in the library, the access to which is at least for 12 hours a day, aids self study. In addition, the library has actual lectures by eminent people in the form of videos, such as NPTEL. These encourage self learning among the students.
- Laboratories are available, on request, after college hours for students to experiment and explore.
- The guest lectures organized, with industrialists and exponents in specified areas. Workshops are also organised.
- EDUSAT live interactive audio-video lecture programmes transmitted through KU-Band provided by ISRO, Bangalore is made available in the library.

## 34. Participation in Institutional Social Responsibility (ISR) and Extension activities

**National Service Scheme**

Sl. No.	Name of the event	Date	venue	Name of the volunteers
1.	IIT Bombay's Techfestgreen campus challenge	28.01.2013 to 3.02.2013	IIT Bombay	K.Mareeswari
2.	Reformation-A Challenge to lead India	3.01.2014 to 5.01.2014	SSNCE	K.P.S.G.Sugirtha, B.Barani, M.Lavanya, K.Mareeswari
3.	AIDS awareness programme	30-11-2014	Anna University	Meenakshi Krishna Kumar
4.	Healthy Youth for Healthy India	26.1.2014 to 1.2.2014	Anna University	M.Lavanya, B.Barani, K.P.S.G.Sugirtha,
5	Goodbye to Kuppai	25.7.2015	Jeppiar College	R.Sowmiya,R.Mahalakshmi, S.Sandini,Megala,Sathiyapriya,Ranjitha,Tharika
6	Annual special camp	8-01-2015 to 14-01-2015	Illalur village near Thiruporur	N.MegalaS.TharigaS.GunapriyaR.RevathiG.RanjithaS.LingeswariA.Ranjitha
7	International Youth NGO Summit	5.8.2015	College campus	S.Anupriya, S.Manivahanan, A.Jothilakshmi, M.Raagavi, Sudarsan,Yasar Ali, Revathy.K
8	Blood donation camp	15 <sup>th</sup> July 2015	Vandalur – Nanmangalam reserved Forest	R.Sowmiya,R.Mahalakshmi, S.Sandini,Megala,Sathiyapriya,Ranjitha,Tharika
9	Career Guidance class	25 <sup>th</sup> July 2015	JeppiarEngg. College	R.Sowmiya,R.Mahalakshmi, S.Sandini,Megala,Sathiyapriya,Ranjitha,Tharika
10	NSS Orientation	5 <sup>th</sup> Aug. 2015	Mini Audi, College	R.Sowmiya,R.Mahalakshmi, S.Sandini,Megala,Sathiyapriya,Ranjitha,Tharika
11	NSS Day Celebration	29 <sup>th</sup> Aug. 2015	Seminar Hall, College	R.Sowmiya,R.Mahalakshmi, S.Sandini,Megala,Sathiyapriya,Ranjitha,Tharika
12	Polio Immunization	10 <sup>th</sup> Sep. 2015	Lecture Hall -18	R.Sowmiya,R.Mahalakshmi, S.Sandini,Megala,Sathiyapriya,Ranjitha,Tharika
13	Campus Cleaning	24 <sup>th</sup> Sep. 2015	Mini Audi, College	R.Sowmiya,R.Mahalakshmi, S.Sandini,Megala,Sathiyapriya,Ranjitha,Tharika
14	National Youth Conference - 2016	17 <sup>th</sup> Jan 2016	PHC, Thiruporur	R.Sowmiya,R.Mahalakshmi, S.Sandini,Megala,Sathiyapriya,Ranjitha,Tharika
15	Blood donation camp	23-01-2016	ECE dept	N.Megala
16	Temple Festival	5th Feb. 2016	College Campus	R.Sowmiya,R.Mahalakshmi, S.Sandini,Megala,Sathiyapriya,Ranjitha,Tharika
17	Beach Cleanup Programme	16 <sup>th</sup> & 17 <sup>th</sup> Feb. 2016	SRM University	R.Sowmiya,R.Mahalakshmi, S.Sandini,Megala,Sathiyapriya,Ranjitha,Tharika
18	Digital India	19 <sup>th</sup> Feb	Thiruporur	R.Sowmiya,R.Mahalakshmi,



	Workshop	2016		S.Sandini,Megala,Sathiyapriya,Ranjitha,Tharika
19	Blood donation camp	21 <sup>st</sup> Feb 2016	Besant Nagar	R.Sowmiya,R.Mahalakshmi,S.Sandini,Megala,Sathiyapriya,Ranjitha,Tharika
20	Soft skills &Leadership training Programme	25 <sup>th</sup> Feb. 2016	Anna Univeristy	R.Sowmiya,R.Mahalakshmi,S.Sandini,Megala,Sathiyapriya,Ranjitha,Tharika
21	National Integration camp	26 <sup>th</sup> Feb. 2016	Mini Audi, College	R.Sowmiya,R.Mahalakshmi,S.Sandini,Megala,Sathiyapriya,Ranjitha,Tharika
22	Library work	4,5,6 <sup>th</sup> March 2016	Erode Sengunthar College, Erode	R.Sowmiya,R.Mahalakshmi,S.Sandini,Megala,Sathiyapriya,Ranjitha,Tharika
23	Placement Training for NSS Volunteers	15 <sup>th</sup> to 21 <sup>st</sup> March 2016	Devangere University, Devangere, Karnataka	R.Sowmiya,R.Mahalakshmi,S.Sandini,Megala,Sathiyapriya,Ranjitha,Tharika
24	Voters Awareness Campaign	18 <sup>th</sup> March 2016	College Library	R.Sowmiya,R.Mahalakshmi,S.Sandini,Megala,Sathiyapriya,Ranjitha,Tharika
25	National Integration camp	28 <sup>th</sup> March 2016	Lecture Hall -18	R.Sowmiya,R.Mahalakshmi,S.Sandini,Megala,Sathiyapriya,Ranjitha,Tharika
26		4 <sup>th</sup> April 2016	Lecture hall -18	R.Sowmiya,R.Mahalakshmi,S.Sandini,Megala,Sathiyapriya,Ranjitha,Tharika
27		2 <sup>nd</sup> to 8 <sup>th</sup> May 2016	PA college of Engg., Pollachi	R.Sowmiya,R.Mahalakshmi,S.Sandini,Megala,Sathiyapriya,Ranjitha,Tharika
28	Campus cleaning	24-04-2016	College campus	N.MegalaS.TharigaSathyapriyaS.GunapriyaR.RevathiG.RanjithaA.Ranjitha
29	Blood donation camp	13-09-2016	ECE dept	N.MegalaS.TharigaSathyapriya
30	NSS Day Celebration	28-09-2016	Mini Audi	N.Megala
31	Beach cleaning	04-01-2017	Neelangarai beach	S.TharigaS.GunapriyaR.RevathiG.RanjithaS.LingeshwariN.Megala
32	Lake Walk	22-01-2017	Chennai	S.TharigaS.GunapriyaR.RevathiG.RanjithaS.LingeshwariN.MegalaS.Pavithra
33	Tree Plantation	21-02-2017to 22-02-2017	SSNCE Campus	N.MegalaG.Ranjitha
35	Annual special camp	26-01-2017 to 1-02-2017	Kayar village near kelambakkam	N.MegalaS.TharigaS.GunapriyaR.RevathiG.RanjithaS.Lingeshwari
35	Blood donation camp	28-02-2017	Mini audi	N.Megala
36	Blind home visit	25-03-2017	Mission to the blind home, Madavaram, Chennai	N.Megala
37	Sports day March past	31-03-2017	Our college	N.Megala

**Youth Red Cross**

Sl. No.	Number of events and the number of students participated during 2015-16	
	Events	Participants
1	16	168

35. SWOC analysis of the department and Future plans

**Strengths:**

- A mission in alignment with the mission of the institution in offering quality education to students of all economic strata
- A unique college of renowned faculty with different specializations that orient towards one great goal in the direction of betterment of mankind
- Excellent research interests in faculty imparted effectively to students right from their entry to the department.
- Appropriate guidance in career sculpting – viz. higher learning, sports, placements and research.
- Interactive laboratory sessions with basic to core experimental set-ups in training students to correlate curriculum and day to day living
- State of the art laboratories furnished with equipment beyond curricular specifications for imparting research interests
- In-house projects in all domains including hardware, software and blend of both towards assist devices and assistive technologies for human healthcare
- Major contribution of faculty and students in the Centre for healthcare Technologies – a multidisciplinary research initiative of the institution working towards development of healthcare technologies.
- A well equipped innovation cell to cater the technical needs and supporting basic infrastructure to all students beyond working hours.
- The department students earn almost the entire top and highest number of University ranks every year.
- Memorandum of Understanding signed with leading Medical Universities, Biomedical instrumentation start-up companies India and abroad.

**Weaknesses:**

- Diverse student community from different educational backgrounds (lateral entries) and the scarcity of time available to them on implementing of value added courses
- Long and strenuous commutation of non residential students leading to inability in spending extra lab hours or special coaching

**Opportunities:**

- Possible collaborations and consultancy work with renowned biomedical organizations
- Strengthening collaborative research with research institutions in India and abroad
- Growing need for innovative and indigenous healthcare support in the country
- Sensible awareness in wellbeing of mankind

**Challenges:**

- Funding for research from National organizations
- Cost incurred in higher learning in institutions abroad making it less accessible for students of all economic strata

**Future Plans:**

- Developing a Research park with a strong organizational and entrepreneur support from medical devices sector.
- Concentrating in the development of indigenous low-cost highly adept human healthcare support mechanisms
- Development of centers of excellence in major areas of topical research interests for promoting quality research
- International collaborations to widen the views and expertise of faculty and students and to update laboratory facilities
- Promote faculty and student exchange programmes abroad to bring in fresh research and development activities.

## EVALUATIVE REPORT OF THE DEPARTMENT OF MECHANICAL ENGINEERING

1. Name of the department : **Mechanical Engineering**
2. Year of Establishment : **2007**
3. Names of Program / Courses offered

Sl. No.	Names of Programmes	Year of Starting	Courses offered
1	B.E.	2007	Mechanical Engineering
2	M.E.	2012	Manufacturing Engineering
3	M.E.	2013	Energy Engineering
4	MS (by Research) & Ph.D.	2012	Mechanical Engineering

4. Names of Interdisciplinary courses and the departments/units involved : **Nil**
5. All Programs are under semester system.
6. Participation of the department in the courses offered by other departments

Sl. No.	Subject Code	Courses offered	Benefitting Depts.	Semesters
1	GE6152	Engineering Graphics	All 8 UG Departments	1
2	GE6162	Engineering Practices Lab		1
3	GE6251	Basic Mechanical Engg	EEE	2
4		Robotics	ECE	6

7. Courses in collaboration with other University, industries and foreign institutions, etc. : **Nil**
8. Details of courses/programs discontinued (if any) with reasons : **Nil**
9. Number of teaching posts

	Sanctioned			Filled		
	UG	PG		UG	PG	
		Mfg	Energy		Mfg	Energy
Professors	2	1	1	2	1	1
Associate Professors	8	2	2	21	2	2
Asst. Professors	18	-	-	5	-	-

10. Faculty profile with name, qualification, designation, specialization.

Faculty Qualifications and Total Experience upto April-2017						
Sl. No.	Name of the Staff	Educational Qualification	Designation	Specialization	No. of years of Experience	No. of Ph.D. guided / guiding for the last 4 years
1	Dr. V.E. Annamalai	Ph.D.	Prof. & HOD	Manufacturing	29	3
2	Dr. N. Nallusamy	Ph.D.	Prof.	Thermal Engineering	23.5	5
3	Dr. K. Subbaiah	Ph.D.	Prof.	Manufacturing	34	12
4	Dr.S.R.Koteswara Rao	Ph.D.	Prof.	Metall. and Mater. Engg	17	9
5	Dr. B. Anand Ronald	Ph.D.	Asso. Prof	Manufacturing	9	3
6	Dr. N. Lakshmi Narasimhan	Ph.D.	Asso. Prof.	Thermal Engineering	15	Nil
7	Dr. S. Vijayan	Ph.D.	Asso. Prof.	Industrial Engineering	18	3
8	Dr. K. Babu	Ph.D.	Asso. Prof.	Manuf. and Metallurgy	14	4
9	Dr. K.S. Jayakumar	Ph.D.	Asso. Prof.	Robotics	11	1
10	Dr. M. Suresh	Ph.D.	Asso. Prof.	Thermal Sci./Refrigeration	18	1
11	Dr. K.S. Vijay Sekar	Ph.D.	Asso. Prof.	Manufacturing	21	1
12	Dr. M.S. Alphin	Ph.D.	Asso. Prof.	Design	14	9
13	Dr. A.K. Lakshminarayanan	Ph.D.	Asso. Prof.	Manufacturing	10	10
14	Dr. S. Suresh Kumar	Ph.D.	Asso. Prof.	Design	7.5	2
15	Dr. K. Rajkumar	Ph.D.	Asso. Prof.	Manufacturing	9	2
16	Dr. Ananthapadmanabhan	Ph.D.	Asso. Prof.	Metallurgy/Welding	21 Y 7M	Nil
17	Dr. S. Rajkumar	Ph.D.	Asso. Prof.	IC Engines	23	6
18	Dr. R.Prakash	Ph.D.	Asso. Prof.	Automobile	16	Nil
19	Dr. S. Soma Sundaram	Ph.D.	Asso. Prof.	Combustion-Thermal	3.5	Nil
20	Dr. A.S. Ramana	Ph.D.	Asso. Prof.	Energy	16	Nil
21	Dr. M. Nalla Mohamed	Ph.D.	Asso. Prof.	CAD/CAM	16 y 8M	2
22	Dr. M. Selvaraj	Ph.D.	Asso. Prof.	Engineering Design	23	2

23	Dr M Dhananchezian	Ph.D.	Asso. Prof.	Manufacturing	12	6
24	Dr. G. Satheesh Kumar	Ph.D.	Asso. Prof.	Robotics	6	Nil
25	Dr R. Damodaram	Ph.D.	Asso. Prof.	Manufacturing	3	4
26	Dr. L. Poovazhagan	Ph.D.	Asso. Prof.	Manufacturing	17Y 2M	3
27	Dr.K.Jayakumar	Ph.D.	Asso. Prof.	Manufacturing	13.25	3
28	Dr.G.Selvakumar	Ph.D.	Asso. Prof.	Manufacturing	14Y 8M	11
29	Dr. K.L. Hari Krishna	Ph.D.	Asso. Prof.	Welding	18Y 5 M	Nil
30	Mr. D. Ebenezer	M.E	AP	Energy	6.5	NA
31	Ms. R. Rajeswari	M.E	AP	CIM	18	NA
32	Mr. B. Jayakishan	M.S.	AP	Combustion-Thermal	4	NA
33	Mr. R. Vimal Sam Singh	M.E.	AP	Manuf Sys. and Mgt.	4	NA
34	Mr. Arun Prakash. C	M.E	AP	Mechatronics	2 .25	NA
	<b>Total</b>					<b>103</b>

11. List of senior visiting faculty : **Nil**
12. Percentage of lectures delivered and practical classes handled by temporary faculty : **Nil**
13. Student -Teacher Ratio Give No. of students (in 2, 3 & 4 yrs), No. of faculty & STR

Sl. No.	Programme	No. of Students	No. of Faculty	STR
1	UG - Mechanical Engineering	450	28	1:16
2	PG - M.E. Manufacturing Engineering	36	3	1:12
3	M.E. - Energy Engineering	36	3	1:12

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

	Sanctioned	Filled
Administrative Staff	2	2
Technical Staff	8	8

15. Qualifications of teaching faculty with D.Sc./ D.Litt./ Ph.D./ M. Phil. / PG.

Ph.D.	29
M.E./M.Tech.	5

16. Number of faculty with ongoing projects:

Ongoing projects	Number faculty	Grants Received
National	16	236.688 Lakhs
International	1	0.97923 Lakhs

17. Departmental Projects funded by AICTE, DST etc. and total grants received

**Details of sponsored research projects**

**External Projects – Completed**

Sl. No.	Investigators	Title of the project	Funding Agency	Amt Sanctioned in Lakhs	Duration	Statue of the project
1	Dr.S.R.Koteswara Rao and Dr. S. Vijayan	Friction stir welding of scandium added Al-Mg alloys	NRB	23.94	2006-2009	Completed
2	Dr.S.R.Koteswara Rao and Dr. V.E. Annamalai	Gas Tungsten Arc Assisted Friction Stir Welding of Steels	DST	20.77	2008-2011	Completed

3	Dr. K. S. Vijayasekar	Experimental and finite element investigation of the machining process with composite materials	AICTE (under RPS)	18.65	2012-2015	Completed
4	Dr. V.E. Annamalai	Industry Institute Partnership Cell	AICTE under IIPC	11.00	2013-2015	Completed
5	Dr. Anand Ronald	Magnetic moulding of A/SiCp of metal matrix composites	DST	9.26	2013-2016	Completed
6	Dr. V.E. Annamalai	Creation of Design and Fabrication Lab for experimental learning	AICTE MODROBS	5.94	2014 - 2015	Completed
<b>Total</b>				<b>89.56 Lakhs</b>		

**External Projects - Ongoing**

Sl. No.	Investigators	Title of the project	Funding Agency	Amt Sanctioned in Lakhs	Duration	Statue of the project
1	Dr. K. Babu	Study of Mechanical Properties & Surface Features of Steels Quenched in CNT Nano fluid	AICTE Under RPS	9.41	2015-2018	On going
2	Dr. M.S. Alphin	Design and development of Novel Handle Shapes to overcome Vibration Discomfort	DST/SERB	18.866	2016-2019	On going
3	Dr. V.E. Annamalai	Reclamation of abrasives from Bonded, Coated and sanitary ware rejects	DST	74.16	2016-2019	On going



4	Dr. R. Damodaram	Friction surfacing for Repair of Alloy 718 Components	DST/SERB/ECR	27.896	2016-2019	On going
5	Dr. G. Sateesh Kumar	Design, development and implementation of networked reconfigurable in-pipe robots for inspection and scavenging application	DST/SERB/ECR	40.0	2016-2019	On going
6	Dr. G. Selvakumar	Investigations on Wire Electrical Discharge Machining (WEDM) of low conductive materials.	DST/SERB/ECR	31.926	2017-2020	On going
<b>Total</b>				<b>Rs.203.23723 Lakhs</b>		

**Internal Projects - Completed**

Sl. No.	Investigators	Title of the project	Funding Agency	Amount Sanctioned in Lakhs	Duration	Statue of the project
1	Dr.S.R.Koteswara Rao		SSN Trust	11.00		Completed
2	Dr. K. Elangovan	Development of low cost FSW machine	SSN Trust	4.0	2011-2013	Completed
3	Dr. N. Lakshminarasimhan	Development of a thermal energy storage device for industrial applications	SSN Trust	1.0	2011 -2012	Completed
4	Dr. K. Babu	Autonomous Vehicles – MEMS Based	SSN Trust	4.5	2011-2013	Completed
5	Dr. M. Suresh	Experimental investigation of air cooled vapour absorption air-conditioning system	SSN Trust	3.0	2012-2014	Completed
6	Dr .A.K. Lakshminarayanan	Effect of Welding Techniques on mechanical and metallurgical	SSN Trust	3.0	2012-2013	Completed

		properties of AZ91D magnesium alloy joints.				
7	Dr. S. Vijayan	Evaluation of Micro Structure And Mechanical Properties of Dissimilar FSW of Magnesium Alloys Of AZ31B And ZM21	SSN Trust	4.0	2013-2015	Completed
8	Dr. A. S. Ramana	Experimental Investigation on PCM Integrated Solar Drier	SSN Trust	2.5	2013-2015	Completed
<b>Total</b>				<b>Rs. 33.00 Lakhs</b>		

**Internal Projects - Ongoing**

Sl. No.	Investigators	Title of the project	Funding Agency	Amount Sanctioned in Lakhs	Duration	Statue of the project
1	Dr. D. Ananthapadmanaban	Assessment of intergranular corrosion resistance of friction stir welded and gas tungsten arc welded 316LN Austenitic stainless steel	SSN Trust	2.0	2014 - 2016	On going
2	Dr. G. Satheesh Kumar	Design, Development and Implementation of Robots for Scavenging Applications	SSN Trust	2.6	2014 - 2016	On going
3	Dr. M. Dhananchezian	Investigation of machinability and functional characteristics of nickel-based alloys under cryogenic cooling.	SSN Trust	4.5	2014 - 2016	On going
4	Dr. R. Damodaram	Investigations on Stress Corrosion Cracking studies of friction stir processed Nickel Aluminium Bronze	SSN Trust	4.0	2014 - 2016	On going
5	Dr. S. Suresh Kumar	Investigation on the influence of weld residual stress and material defects on ballistic resistance of straight and curved	SSN Trust	4.25	2015-2018	On going

		targets				
6	Dr. S. Somasundaram	Determination and attenuation of noise generated from sunroof of automobiles	SSN Trust	2.0	2015-2017	On going
7	Dr. K. Subbaiah	Evaluation of microstructure and mechanical properties of tungsten inert gas welding on AA5083 with Sc and Er containing fillers	SSN Trust	2.0	2015-2017	On going
8	D. Ebenezer	Diffusion bonding of Aluminium alloy 7075 to magnesium alloy AZ91	SSN Trust	6.4	2016-2018	On going
9	Dr. K.L. Harikrishna	Improving the corrosion resistance of rare earth Mg alloy welds using micro arc Oxidation	SSN Trust	4.2	2016-2018	On going
10	Dr. K. Rajkumar	Fabrication and investigation on the tribo and bio degradation of Mg (AZ91D)-CaCO <sub>3</sub> Composite	SSN Trust	2.47	2016-2018	On going
<b>Total</b>				<b>Rs.34.43 Lakhs</b>		

18. Research Centre /facility recognized by the University: The Department was recognized as a Research Centre for conducting independent research work leading to PhD / MS degrees, from 2012, by Anna University

19. Publications:

#### Student publications:

Year	National Journals	International. Journals	National Conferences	International. Conferences	Total
2011			3	1	4
2012		1	4	2	7
2013	1	6	11	23	41
2014		14		14	28
2015		20		20	40
2016	-	52	-	20	72
2017	0	3	1	27	31

**Faculty Publications:**

Name of the Staff	Conference Papers	Journal Papers	Chapters in Books/ Books edited	Books with ISBN/ISSN numbers	Citation Index	SNIP	SJR	Impact factor	h-index
Dr. V.E. Annamalai	24	42	8		161			0.3 ~ 1.1	6
Dr. N. Nallusamy	50	42	2	2	297	2.565	3.5	0.1 ~ 2.7	9
Dr. K. Subbaiah	29	9	-	-	28			0.4 ~ 0.7	3
Dr.S.R.Koteswara Rao	25	38	-	-	212			0.3- 3.5	7
Dr. S. Vijayan	5	17		1	171			0.3 ~ 1.7	4
Dr. N. Lakshmi Narasimhan	10	12	1		171			0.6 ~ 3.5	5
Dr. B. Anand Ronald	23	14	1	1	37			0.6 ~ 3.5	2
Dr. K. Babu	22	10			129			0.5 ~ 2.8	5
Dr. K.S. Jayakumar	6	10		1	33			0.5 ~ 1	3
Dr. M. Suresh	12	19		1	51	2.014		0.1 ~ 2.4	4
Dr. K.S. Vijay Sekar	21	23	3	3	23			0.2~0.5	2
Dr. M.S. Alphin	14	12			9	0.6	0.63	0.3 ~ 4.3	1
Dr. A.K. Lakshminarayanan	30	52	-	-	970	-	-	0.5-3	16
Dr. S. Suresh Kumar	12	7			20			0.2 ~ 0.5	2
Dr. K. Rajkumar	32	43	4		410			0.3 ~ 3.997	8
Dr. Ananthapadmanabhan	27	23							1
Dr. S. Rajkumar	6	12	1	1	17			0.3 ~ 1.5	2
Dr. R.Prakash	21	13			11			0.2 ~ 0.7	2
Dr. S. Somasundaram	5	5			11	1.02	1.156	0.965	2
Dr. A.S. Ramana	8	5			148	3.11	3.12	0.0 ~ 6.8	3
Dr. M. Nalla Mohamed	9	9	-	-	9	-	-	1.6 ~ 3.1	2
Dr. M. Selvaraj	10	8		1	20			0.6 ~ 1.5	3
Dr M Dhananchezian	17	14	--	-	144			0.1 ~ 1.9	4
Dr. G. Satheesh Kumar	26	9	-	1	59			0.5 ~ 2.3	3
Dr R. Damodaram	8	6	-	-	38	-	-	1.5 ~ 3.4	4
Dr. L. Poovazhagan	14	11	-	2	37	1.7	1.53	0.6 ~ 1.7	3
Dr.K.Jayakumar	16	13		2	18	-	0.77	0.9 ~ 1.7	2
Dr.G.Selvakumar	11	16	-	2	45			0 ~ 1.5	4
Dr. K.L. Hari Krishna	12	7		1	2			0.1 ~ 0.6	1
Mr. D. Ebenezer	6	4						0.05	-
Ms. R. Rajeswari	8	1	-	1	-	-	0.35	0.35	-
Mr. B. Jayakishan	4	4	-	-	10	-	-	1.207	2
Mr. R. Vimal Sam	5	7	-	-	32	-	-	1~1.8	2

Singh									
Mr. Arun Prakash. C	11	10	-	-	2	-	0.27	0~0.86	1

## 20. Areas of consultancy and income generated

Sl. No.	Year	Company	Nature of Consultancy	Revenue In Rs.
1	2011-12	M/s. Wendt India Ltd	2011-12	45,000
2	2012-13	M/s. Fenner India Ltd.	2012-13	30,000
3		M/s. Murugappa Morgan Thermal Ceramics Ltd	2012-13	15,000
4	2014-15	TAFE. Sembiam	Training on TRIZ [11-3-2015]	5,000
5		TAFE. Sembiam	Project Review, R&D CFTs [24-3-15]	8,000
6	2015-16	TAFE Sembiam	Training on TRIZ [13&14-8-2015]	30,000
7		Tube Investments	Training on Creativity & Innovation[14-10-2015]	10,000
8		Shanthi Gears, Coimbatore	Training on Creativity & Innovation[23-10-2015]	10,000
9	2016-17	John Deere, Pune	Training on TRIZ and Creativity [18 & 19-08-16]	30,000
10		Ashok Leyland, Chennai	Training on TRIZ [27 & 28-01-17]	30,000

## 21. Faculty as members in

Year	Committees	Name	Details
2011-12	National	Dr.N.N	Member Anna University Syllabus Committee
2012-13	National	Dr.VE.A	1.member of board of studies in anna university Regulation 2013 for affiliated colleges
			2.Convener of CSIR Sponsored National Conference on "Strategies for Successful Interaction with Industries", SSN
		Dr.K.S.V	Co-convener of CSIR Sponsored National Conference on "Strategies for Successful Interaction with Industries", SSN
		Dr.M.S	Member of syllabus sub-committee for R2013-PG Thermal Engineering courses towards the revision of curricula and syllabi at Anna University
2013-14	National	Dr.M.N.M	Advisory committee member in National confrence on Advancements in Mechanical Engineering and Nano-Technology-NCAMENT'14, at PSN Engineering College, Tirunelveli
2014-15	National	Dr.M.N.M	Co-Coordinator for the AICTE Sponsored FDP on Computer Aided Product Design
		Dr.N.N.S	Convener-International Conference on Sustainable Energy Resources, Materials and Technologies (ISERMAT 2015), SSNCE, Chennai
	International	Dr.K.S.V	Technical Committee member in International Conference on Mechanical Manufacturing and

			Control, ICMC 2014, Singapore
		Dr.M.Su	Convener-International Conference on Sustainable Energy Resources, Materials and Technologies (ISERMAT 2015), SSNCE, Chennai
		Dr.S.S.	Technical Committee- ISERMAT
		Dr.M.N.M	International Conference on Sustainable Energy Resources, Materials and Technology, ISERMAT 2015 - program Committee Member
		Dr.L.P	International Conference on Sustainable Energy Resources, Materials and Technology, ISERMAT 2015 - program Committee Member
		Dr.G.S	Advisory committee member for the International Conference on Emerging trends in Engineering and Technology 2015 (INCETET 2015) , 5 & 6 December 2015, Society of Engineering and Technology & Newton Tech Solution, Tirunelveli
		Dr.K.R	International Conference on Sustainable Energy Resources, Materials and Technology, ISERMAT 2015 - Technical Committee Member
2015-16	National	Dr.L.P	National Conference on Processing and Characterization of Advanced Engineering Materials (NCPAEM - 2016) – Convener
		Dr.K.J	National Conference on Processing and Characterization of Advanced Engineering Materials (NCPAEM - 2016) – Convener
		Dr.K.R	National Conference on Processing and Characterization of Advanced Engineering Materials (NCPAEM - 2016) – Convener
	International	Dr.K.S.V	Technical Committee member in 7th International Conference on Manufacturing Science and Technology (ICMST 2016), Malaysia
		Dr.M.S	Convenor - International Conference on Mechanical Engineering Design, ICMED 2016
		Dr.M.S.A	Convenor - International Conference on Mechanical Engineering Design, ICMED 2016
		Dr.M.N.M	Convenor - International Conference on Mechanical Engineering Design, ICMED 2016
		Dr.G.S	Convenor - International Conference on Mechanical Engineering Design, ICMED 2016
		Dr.K.S	Co-Convenor - International Conference on Mechanical Engineering Design, ICMED 2016
		Dr.S.S.K	Co- Convenor - International Conference on Mechanical Engineering Design, ICMED 2016
		Dr.S.S	Technical Committee- ICMED
		Dr.L.P	International Conference on Mechanical Engineering Design, ICMED 2016 - Program Committee Member
		Dr.K.J	International Conference on Mechanical Engineering Design, ICMED 2016 - Program Committee Member
		Dr.K.R	International Conference on Mechanical Engineering Design, ICMED 2016 - Technical Committee Member
2016-17	National	Dr.S.R.K. Rao	Member Anna University Syllabus Committee- R2017
		Dr.S.V	Member Anna University Syllabus Committee-

			R2017
		Dr.K.S.J	National Conference for Mechanical Engineering Research Scholars (MERS-2017)-Convener
		Dr.M.N.M	Convenor - One day workshop on 'Automotive sketching & 3D Printing'.
		Dr.K.S.J	National Conference for Mechanical Engineering Research Scholars (MERS-2017, 31st March 2017)-Convener
		Dr.K.J	National Conference for Mechanical Engineering Research Scholars (MERS-2017, 31st March 2017)-Convener
	International	Dr.K.J	5th International Conference on Contemporary Engineering and Technology 2017- ICCET 2017, March 24 - 25, 2017, Madha Engineering College, Chennai - Advisory Committee Member.
		Dr.D.A.P	National Conference for Mechanical Engineering Research Scholars (MERS-2017, 31st March 2017)-Convener
		Dr.KL.H	National Conference for Mechanical Engineering Research Scholars (MERS-2017, 31st March 2017)-Convener
		Dr.G.S.	1. Convenor - One day workshop on 'Automotive sketching & 3D Printing'.
			2. Advisory committee member for the National Conference on Material Design and Energy (NCMDE-17), 6 & 7 April 2017, PSN College of Engineering and Technology (Autonomous), Tirunelveli.
		Dr.K.R	5th International conference Contemporary Engineering and Technology 2017-Advisory committee-Madha Engineering college Chennai

## 22. Student projects

	2016-2017	2015-2016	2014-2015	2013-2014	2012-2013	2011-2012
In-house projects	83	85	85	95	94	70
Outside the institution	17	15	15	5	6	30

## 23. Awards / Recognitions received by faculty

Name of the faculty	Awards
Dr. N. Nallusamy	Best Teacher Award: SSN 2012-13; 1st Prize Best Teacher Award: SSN 2013-14; 2nd Prize CTS- Best Faculty Award for the year 2014-15
Dr. S. Vijayan	1. Best Teacher Award: 2011-12 2. Travel grant of Rs. 1,00,000/- received from AICTE during the Year – 2012-13
Dr. K. Babu	1. Best paper Award 2.Travel grant of Rs. 1,17,859/- received from DST during the Year – 2011-2012

	3. Best teacher award -2011-12 4. First Consolation Prize – Exhibition of academia projects – IMTEX 2016 (Indian Machine Tool Exhibition)
Dr. M. Suresh	1. Teacher par excellence for the academic year 2012-2013 - SSNCE 2. Second prize – Exhibition of academia projects – IMTEX 2017 (Indian Metal cutting Machine Tool Exhibition)
Dr. M. S. Alphin	CSIR Travel Grant-International Conference Bangkok. 2013-2014. Rs 20,000
Dr. A. K.Lakshminarayanan	1. Recipient of Viswanathan Iyer Price for the Best Ph.D thesis in Manufacturing, Annamalai University during the Year 2012 - 2013. 2. Received certification of appreciation twice from Taylor and Francis publication, USA for “outstanding contribution of reviewer” for reviewing research articles for the period 2013 – 2014 & 2014-2015 3. Received “Best Teacher Award” for the Year 2013-2014 and 2014-2015 from the management of SSN institutions. 4. Received “Best paper award in Nonferrous Category in the National Welding Seminar organized by Indian Institute of Welding at Mumbai during December-15
Dr. S. Suresh Kumar	Best paper awards, 2013 - 2 Nos
Dr.K.S.Vijay Sekar	Best Teacher Award - SSN - 2014-15 Cognizant Best Teacher Award - 2014 -15 Best Paper award - ICMC Nov 2014, Singapore Certificate of appreciation as reviewer from Institution of Engineers - 2017 AICTE Project grant - 18.65 lakhs, 2012-13. External grant of Rs.20,000 from Institution of Engineers - 2016 - project on UAV for crop inspection
Dr.K.Rajkumar	Marquis Who's Who 2016 edition
Dr. Satheesh Kumar Gopal	Excellent paper award for the paper entitled "Design, Fabrication and Implementation of Deweeding Robot" for the category Best Content/Best presentation at the 49th International Academic conference on Electrical, Electronics and Computer Engineering (IACEECE 2017) held on 16th, April 2017, Chennai
Dr. K. Jayakumar	Best paper award for his paper titled “Experimental studies on Drilling of 410 stainless steel” in International Conference on Emerging Trends in Materials and Manufacturing Engineering” (IMME-17) at NIT, Trichy on 10-12th March 2017.

## 24. List of eminent academicians and scientists / visitors to the department

Sl. No.	Name/ Designation and Affiliation	Name of the Event	Organized under	Date
1	Mr.Mahesh Ramadoss, Program Manager, CD-Adapco India Pvt. Ltd.	Guest Lecture	SSN CE	08.07.12
2	Mr.M.Senthil Kumar, Senior Engineer, ESAB India Ltd.	Guest Lecture	SSN CE	18.07.12
3	Dr. C. Balaji, Professor, Mechanical Engineering, IITM	Guest Lecture	SSN CE	11.09.12
4	Mr.Mahesh Ramadoss, Program Manager, CD-Adapco India Pvt. Ltd.	Guest Lecture	SSN CE	11.01.13



Sl. No.	Name/ Designation and Affiliation	Name of the Event	Organized under	Date
5	Dr. K. Chandrasekaran, Dean, RMK Engineering College	Guest Lecture	SSN CE	24.01.13
6	Mr. N. Haribabu, Vice President & Dean, Rane Institute of Employee Development	Guest Lecture	SSN CE	24.01.13
7	Dr.G.Gangi Reddy, Managing Director, Technology Business Incubator, University of Madras	Guest Lecture	SSN CE	24.01.13
8	Mr. Mathew Rana, Corporate Communications Manager, Visteon Automotive Systems India Pvt. Ltd	Guest Lecture	SSN CE	24.01.13
9	Mr. B. John Devadason, Unit Head, Apollo Tyres	Guest Lecture	SSN CE	24.01.13
10	Mr.R.Ramakrishnan, General Manager Business Development, Cetex Petrochemicals Limited	Guest Lecture	SSN CE	25.01.13
11	Prof. A.N. Parameswaran, Dean, Industry Institute Interaction Cell, S.R.M. University	Guest Lecture	SSN CE	25.01.13
12	Mr. T. Sarangarajan, Vice President, Hyundai Motor India Ltd.	Guest Lecture	SSN CE	25.01.13
13	Dr. R. Ramaseshan, Senior Director, Cognizant Technology Solutions	Guest Lecture	SSN CE	25.01.13
14	Mr.R.Anantharaman, General Manager, Carborundum Universal Ltd	Guest Lecture	SSN CE	25.01.13
15	Mr.S.Gowthama, Deputy Manager, Corporate Technology Centre, Tube Products of India limited	Guest Lecture	SSN CE	22.02.13
16	Mr.M.Ramesh kumar, Scientist 'D', Transmission Division, CVRDE	Guest Lecture	SSN CE	15.03.13
17	Mr.Sudhakar Rao PERAM, Dassault Systems India Pvt. Ltd.	Guest Lecture	SSN CE	15.03.13
18	Sreeram Visvanathan,, IBM Global, UAE	Guest Lecture	SSN CE	02.08.13
19	Dr.M.Suriaynarayanan, Principal Scientist, CLRI	Guest Lecture	SSN CE	27.8.2013
20	Dr.S.P.Sivapirakasam, NIT, Trichy	Guest Lecture	SSN CE	27.8.2013
21	Mr. Medisetti Jaganmohan Rao, Ashok Leyland	Guest Lecture	SSN CE	17.09.2013
22	Mr. Bakthavachalam, G.M. (Manufacturing), Turbo energy Ltd.	Guest Lecture	SSN CE	27.02.14
23	Mr. K.Sivakumar, Senior General Manager-Manufacturing, TVS Brakes India	Guest Lecture	SSN CE	28.02.14
24	Mr. Tank. Sanjay, General Manager (Homologation), Mahindra & Mahindra	Guest Lecture	SSN CE	06.03.14

Sl. No.	Name/ Designation and Affiliation	Name of the Event	Organized under	Date
25	Dr. Arunkumar M. Sampath, General Manager Monocoque Platforms, Mahindra & Mahindra	Guest Lecture	SSN CE	07.03.14
26	Dr.Prathap Haridoss, Professor, Metallurgy and Materials Engineering, IITM	Guest Lecture	SSN CE	20.8.2014
27	Mr. T. Jayaraman, Founder & Mg. Director, SECO Controls	Guest Lecture	SSN CE	17.09.2014
28	Dr.A.Srinivasan, Scientist, Material Science and Division, National Institute for Interdisciplinary Science and Technology (NIIST)	Guest Lecture	SSN CE	23.01.2015
29	Dr. D. Davidson Jebaseelan, Associate Professor, VIT Chennai	Guest Lecture	SSN CE	28.01.2015
30	Dr.H.Khalid Rafi, Technical Consultant, Underwriters Lab, USA	Guest Lecture	SSN CE	04.03.2015
31	Mr.S.Chandar, Plant Plant Production Head, Ingersoll-Rand(India) Ltd	Guest Lecture	SSN CE	25.03.2015
32	Mr.K.Babu, Retired Manager-Production, Rane Engine Valves Ltd, Chennai	Guest Lecture	SSN CE	01.04.2015
33	Dr.D.Dinakaran, Professor, Hindustan University, Chennai	Guest Lecture	SSN CE	07.07.2015
34	Dr.Ashfag Mohammad,, Assistant Professor, King Saud Univerisy, Saudi Arabia	Guest Lecture	SSN CE	27.07.2015
35	Mr.Rubesh Dhananjayan, , Lead Degital Designer, Butterfly Appliances Ltd,Chennai	Guest Lecture	SSN CE	26.08.2015
36	Mr.Maasha Nazeem	Guest Lecture	SSN CE	24.02.2016
37	Mr.Purushothaman.S,	Guest Lecture	SSN CE	25.02.2016
38	Dr. M. Govinda Raju,	Guest Lecture	SSN CE	07.03.2016
39	Mr.Venkadesh Narayahan, Consultant	Guest Lecture	SSN CE	30.03.2016
40	Dr.R.Bharanidharan,	Guest Lecture	SSN CE	18.07.2016
41	Dr.R.Rajmohan,	Guest Lecture	SSN CE	18.07.2016
42	Mr.Senthil Kumar	Guest Lecture	SSN CE	26.07.16
43	R.Santhosh kumar,	Guest Lecture	SSN CE	16.08.16
44	Dr.D.Dinakaran,	Guest Lecture	SSN CE	23.08.16
45	Dr.Raghunathan,	Guest Lecture	SSN CE	08.02.17
46	Mr.Srirajasekhar Bobby Koritala,	Guest Lecture	SSN CE	22.03.17

## 25. Seminars/ Conferences/Workshops organized &amp; the source of funding

Year	Organized by	Date/ Duration	Title of the workshop	Funding agency / Organization
2011-12	Dr. K. Babu, Dr. K. Elangovan, Dr. B. Anand Ronald and Mr.K.S.Vijay Sekar.	12.08.2011	Carbon Nano Tube and its applications	SSN Trust
	Mr. K. Subbaiah, Mr. M. Selvaraj, Mr. K.L. Harikrishna and Mr. M.S. Alphin	14.10.2011	Laser Beam Welding and Processing	SSN Trust
	Dr.V.E.Annamalai	Nov 30- Dec 2, 2011	Industrial Practices-ISO for Problem solving	SSN Trust
	Dr. K. Babu	27.01.12	Inverse heat conduction problems (IHCP)	SSN Trust
	Dr. K.S. Vijay Sekar	14 &15.03.12	Aero modelling workshop for delivering hands on skills on making a Glider. (MAC).	SSN Trust
	Dr.V.E.Annamalai	16.03.12	Quick launch program (QLP) research	SSN Trust
2012-13	Dr. K.S. Jayakumar and Mr. K.L. Hari Krishna	21 & 22.03.12	Robotics Basic Learning Program	SSN Trust & Li2 Inno. Pvt. Ltd, Bangalore.
	Dr. N. Lakshmi Narasimhan & Mr. K. Prakash	25-26 July, 2012	National Workshop on Design, Development and Simulation of Formula-1/Commercial Cars	SSN Trust & M/s Meta Wing Infotech Pvt. Ltd.New Delhi
	Dr.V.E.Annamalai	14-12-2012	Applied Innovation on behalf of CII	CII & SSN Trust
	Dr. N. Lakshmi Narasimhan and Dr. N. Gnanasekaran	10 & 11 January, 2013	Fundamentals of CFD	SSN Trust & CD-Adapco, Bangalore
	Dr. V. E. Annamalai, Dr. K. Babu, Dr. K.S.Vijaysekar, Dr. K.Elangovan	24 - 25 January 2013	NationalLevel Conference on Strategies for successful Interaction with Industries	CSIR & SSN Trust
	Dr. N. Nallusamy Mr. R.Prakash SSN – Mech	12.02.2013	One day program on Automotive Technical cum Practical Training	SSN Trust
	Dr.V.E.Annamalai	19-02-2013	Innovative product development	SSN Trust
	Dr. K.Elangovan Dr. A.K. Lakshminarayanan	22.02. 2013	Friction surfacingand Stir welding of ferrous alloys	SSN Trust
	Dr. K.S. Jayakumar and Mr. K.L.Hari Krishna	28.02.13 & 01.03.13	Robotics Basic Learning Program	SSN Trust
	Dr. M.S. Alphin Dr. S. Suresh Kumar	15-03-2013	Research Trends in Finite Element Analysis	SSN Trust
	Dr. K. S. Vijay Sekar	15& 16-03 2013	Aero Modelling	SSN Trust

	Dr. N. Nallusamy, Mr. R. Prakash	09.04.2013	Automotive Technical cum Practical Training	SSN Trust
<b>2013-14</b>	Dr. K. S. Vijay Sekar	07-08-2013	Aero modelling workshop on Hand gliders	SSN Trust
	Dr. A. S. Ramana, Dr. R. Prakash, Mr. D. Ebenezer	03-10-2013	Alternative Sources of Energy Issues & Challenges	SSN Trust
	Dr. A. K. Lakshminarayanan, Dr. K. Elangovan	22.10.2013	Multi response optimization in Manufacturing, MOM '13	SSN Trust
	Dr. K. S. Jayakumar, Mr. K. L. Harikrishna & Dr. K. Rajkumar	02.12.2013 to 15.12.2013	AICTE sponsored Faculty Development Training Program on Mechatronics	AICTE
	Dr. A. K. Lakshminarayanan and Dr. S. Sureshkumar	20.02.2014	Testing and Analysis of Weldments	SSN Trust
	Dr. K. S. Vijay Sekar	04-05, March 2014	Aero Modelling	SSN Trust
	Dr. N. Nallusamy, Dr. R. Prakash and Dr. S. Rajkumar	18.03.2014	Advancements in Alternate Energy Sources	SSN Trust
	Dr. N. Lakshminarasimhan	18-19 March 2014	Personality Development and Industrial Practices	SSN Trust
<b>2014-15</b>	Dr. N. Lakshmi Narasimhan & Dr. R. Prakash	June 18-29, 2014	Automotive Industry Simulation and Training (AISI)	SSN Trust
	Dr. K. S. Vijay Sekar	11.8.2014	CREO 3 CAD Software	SSN Trust
	Dr. K. S. Jayakumar	June 30 and July 1, 2014	Robotics	MHRD & SSN Trust
	Dr. G. Satheesh Kumar & Mr. C. Arun Prakash.	August 28, 2014	CMM-A Mechatronics Approach in Metrology	SSN Trust
	Dr. A. S. Ramana & Mr. B. Jayakishan	10-10-2014	Energy Efficiency	Petrol. Conserv. Research Asso. (PCRA) & SSN Trust
	Dr. N. Lakshmi Narasimhan and Dr. S. Somasundaram	6-10-2014	CFD Using StarCCM+	CD-Adapco & SSN Trust
	Dr. S. Suresh Kumar & Dr. A. K. Lakshminarayanan	17-10-2014	XFEM based fracture mechanics and its Applications	SSN Trust
	N. Nallusamy M. Suresh	08-01-2015 & 09-01-2015	International conference on Sustainable Energy resources, Materials and Technologies ISERMAT 2015	SSN Trust, DST- SERB, CTS, TVS Sri Chakra Ltd.
	Dr. N. Nallusamy and R. Prakash	07-02-2015	Automotive Technical cum Practical Training	SSN Trust
	Dr. N. Nallusamy and R. Prakash	10-02-2015	Automotive Technical cum Practical Training	SSN Trust
	Dr. K. S. Jayakumar and Mr. K. L. Harikrishna	11th & 12th Feb 2015	Robotics	SSN Trust
	Dr. N. Nallusamy and	26-02-2015	Automotive Technical cum	SSN Trust

	R. Prakash		Practical Training	
	Dr.K.S.Vijay Sekar	4th March 2015	NDT Academy	SSN Trust
	Dr. M. S. Alphin	15.06.2015 to 27.06.2015	AICTE sponsored FDP on Computer Aided Product Design	AICTE
<b>2015-16</b>	Dr. B. Anand Ronald, Dr. S. Vijayan, Mrs. R. Rajeswari	5 <sup>th</sup> Dec 2015	Recent Advances in Materials and Manufacturing (RAMM 2015)	SSN Trust
	Dr. D. Ananthapadmanaban, Dr. KL. Harikrishna & Dr. R. Damodaram	21 <sup>st</sup> March 2016	New trends in Welding Technology	SSN Trust
	Dr. M. Selvaraj, Dr. M. S. Alphin, Dr. NallaMohamed, Dr. G. Selvakumar	25 and 26 April 2016	International Conference on Mechanical Engineering (ICMED-2016)	SSN Trust, ISTE, INSA
	Dr. K. Rajkumar, Dr. L. Poovazhagan, Dr. K. Jayakumar	6 <sup>th</sup> May 2016	National Conf. on Processing and Characterization of Adv. Engg Materials (NCPCAEM - 6)	SSN Trust
<b>2016-17</b>	Dr. R. Prakash, Dr. N. Nallusamy	17-09-2016	Automotive Technical cum Practical Training on two wheeler engines	SSN Trust
	Dr. G. Satheesh Kumar	10.02.2017	"Workshop on Robotics: LFR based on Arduino" @ Velammal Engineering college	SSN Trust
	Mr.R.Vimal Samsingh	22-2-2017	One day workshop on Six Sigma	SSN Trust
	Dr. G. Selvakumar, Dr. M.Selvaraj, Dr. M.S. Alphin, Dr. M. Nalla Mohamed	23.2.2017	One day workshop on 'Automotive sketching & 3D Printing'	SSN Trust
	Mr. C. Arun Prakash and Dr. G. Satheesh Kumar	24.2.2017	One day workshop on "Industrial Automation Using PLC"	SSN Trust
	Mr.R.Vimal Samsingh	28-2-2017	One Day workshop on Solid Works Modeling	SSN Trust
	Dr. N. Nallusamy, Dr. M. Suresh	16.03.2017 and 17.03.2017	Two-day workshop on "Computational Fluid Dynamics - A Practical Approach"	SSN Trust
	Dr. S.Suresh Kumar; Dr. A.K.Lakshminarayanan	20/03/2017	One day video workshop on "Mechanical Engineering Failure Analysis (MEFA'17)"	SSN Trust
	Dr. K. Babu and Mr. Vimal Sam Singh	24/3/2017	One day workshop on "Genetic Algorithm and Fuzzy Systems"	SSN Trust
	Dr. K.Rajkumar and Dr.L.Poovazhagan	24.03.2017	One day National workshop on "Advanced Materials and Machining Technology"	SSN Trust

	Dr. A.K.Lakshminarayanan; Dr. S.Suresh Kumar	24/04/2017	One day national workshop on "Metal Forming Analysis - An experiential learning"	SSN Trust
	Dr. N. Nallusamy, Dr. R. Prakash	25-02-2017	Automotive Technical cum Practical Training on four wheeler engines	SSN Trust
	Dr.K.S.Vijay sekar and Dr.S.Suresh Kumar	23.03.2017	one day workshop on "Refresher Course - Finite ElementAnalysis"	SSN Trust
	Dr. K. S. Jayakumar,Dr. D. Anantha Padmanabhan, Dr. KL. Harikrishna and Dr. K. Jayakumar	31-03-2017	National Conf. for Mechanical Engineering Research Scholars (MERS-2017)	SSN Trust
	Dr. K. Babu and Mr. Vimal Sam Singh	3/4/2017	One day workshop on "Particle Swarm Optimization, Simulated Annealing and Artificial Neural Network"	SSN Trust
	Dr. Lakshminarasimhan and Dr. K. Babu	5/4/2017	One day workshop on "Digital Manufacturing - Techniques and Applications"	SSN Trust
	Dr. S. Rajkumar, Dr. R. Prakash and Mr. B. Jayakishan	06.04.2017	One Day Workshop on "Advanced Combustion Concepts of Internal Combustion Engines"	SSN Trust
	Dr. S.R. Koteswara Rao, Dr. S. Vijayan, Dr. KL.Harikrishna,	07.04.2017	One Day Workshop on "New approaches in weldingengineering "	SSN Trust
	Dr.K.Rajkumar and Dr. B.Anand Ronald	10.04.2017	One day National workshop on "Fabrication of Polymer Matrix Composites"	SSN Trust
	Dr. A.K.Lakshminarayanan; Dr. S.Suresh Kumar	24/04/2017	One day national workshop on "Metal Forming Analysis - An experiential learning"	SSN Trust

## 26. Student profile program/course wise:

Year of Admission	Name of the Course/programme	Applications received (Mgmt. Quota)	Selected (Mgmt +SWS+LE)	Enrolled	
				Male	Female
2016-17	B.E ( Mech)	4500	148	142	6
	M.E. (Mfg. Engg.)	82	16	16	0
	M.E. (Energy Engg.)	82	7	5	2
2015-16	B.E. (Mech.)	4140	149	144	5
	M.E. (Mfg. Engg.)	12	17	17	-
	M.E. (Energy Engg.)	6	14	13	1
2014-15	B.E. (Mech.)	3450	149	144	5
	M.E. (Mfg. Engg.)	33	17	14	3
	M.E. (Energy Engg.)	14	17	16	1
2013-14	B.E. (Mech.)	3360	145	142	3
2012-13	B.E. (Mech.)	3640	147	146	1

## 27. Diversity of Students:

The following table can be deleted

Name of the Course	2016-17		2015-16		2014-15		2013-14		2012-13	
	Same	Other	Same	Other	Same	Other	Same	Other	Same	Other
B.E-Mech.	98.4	1.6	100	0	99.3	0.7	100	0	97.2	2.8
M.E-Mfg	94	6	88	12	100	0	100	0	100	0
M.E-Eng	85.7	14.3	100	0	100	0	100	0	-	-
Ph.D.	97.9	2.1	92	8	100	0	100	0	100	0

## 28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services: 2016 – 2017

National and state level competitive examinations	No of students cleared GATE	No of students cleared CAT
GATE & CAT	18	8
Civil services	Nil	Nil
Defense services	Nil	Nil

## 29. Student progression:

Student progression	Against % enrolled						
	2013-2017	2012-2016	2011-2015	2010-2014	2009-2013	2008-2012	2007-2011
UG to PG	19.8	8.7	8.3	10	8.3	8.3	10.8
PG to Ph.D.	-	1.3		5.6			
<b>Employed</b>							
• Campus selection	52.5	65.8	60	88.9	85	93.2	93.75
• Other than campus recruitment	7.1	6.7	7.0	3	9	5	-
Entrepreneurship / Self-employment	-	-	-	2	-	-	2

## 30. Details of Infrastructural facilities: Dept Library Area 56 Sqm

## a) Department Library

Year	Number of New Volumes Added	Total number of books
2011-2012	-	586
2012-2013	3	589
2013-2014	84	673
2014-2015	83	756

2015-2016	72	828
2016-2017	93	921

Internet facilities for Staff & Students: Available at all 10 Class rooms, 11 Faculty rooms, Seminar hall and Tutorial room; Band width 310 Mbps. The entire campus is WiFi enabled including hostels.

**Detail of Each Lab:**

Sl. No.	Laboratory	Space/No. of Students	Total Cost in Lakhs
1	Engineering Practices Lab	311.3 sq.m. / 60	4.75
2	Computer Aided Drafting and Modeling Laboratory	212 sq.m. / 30	78.96
3	Manufacturing Technology Lab – I	137.0 sq.m./ 36	15.60
4	Manufacturing Technology Lab II	277.0 sq.m./ 36	50.76
5	Thermal Engineering Laboratory-I	225 sq.m. /36	25.36
6	Dynamics Laboratory	125 sq.m. /36	12.72
7	Metrology and Measurements Laboratory	170 sq.m./ 36	13.44
8	Thermal Engineering Laboratory II	150 sq.m. / 36	8.87
9	Mechatronics Laboratory	183 sq.m./36	12.20
10	Automation Lab	115 sq.m./ 18	7.82
11	Metal Forming Lab	52.7 sq.m. / 18	12.32
12	Energy Lab	147 sq.m. / 18	27.29
	<b>Total</b>	<b>2105 Sq.M</b>	<b>270.09 Lakhs</b>

31. Number of students receiving financial assistance from college, university

**B.E. Mechanical Engineering**

Government or other agencies – Year	2016-2017	2015-2016	2014-2015	2013-2014	2012-2013	2011-2012
No. of students received financial assistance from Government	65	67	67	72	27	13
No. of students received financial assistance from SSNCE	82	70	40	19	14	Nil

**M.E. Manufacturing Engineering**

Government or other agencies – Year	2016-2017	2015-2016	2014-2015	2013-2014	2012-2013
No. of students received financial assistance from Government	8	9	9	12	6
No. of students received financial assistance from SSNCE					

**M.E. Energy Engineering**

Government or other agencies – Year	2016-2017	2015-2016	2014-2015	2013-2014	2012-2013



No. of students received financial assistance from Government		1	9	12	6
No. of students received financial assistance from SSNCE					

32. Details on student enrichment programs (special lectures / workshops / Seminar) with external experts

Resource Person	Industry	Topic	Date
Mr.Mahesh Ramadoss	CD-Adapco India Pvt. Ltd.	Star CCM	08.07.12
Mr.M.Senthil kumar	ESAB India Ltd.	Welding applications	18.07.12
Dr. C. Balaji, Professor	IITM	Design in Nature	11.09.12
Mr.Mahesh Ramadoss	CD-Adapco India Pvt. Ltd.	CCM	11.01.13
Dr. K. Chandrasekaran	RMK Engineering College	Strategies - industries	24.01.13
Mr. N. Haribabu, VP	Rane Institute of Emp.Develop,	Bridging the gap	24.01.13
Dr.G.Gangi Reddy, MD,Tech.Busi. Incubator	University of Madras	Funding for relevant academic projects	24.01.13
Mr. Mathew Rana, CCM	Visteon Auto. Sys. India Pvt. Ltd	“Xplore Visteon”	24.01.13
Mr. B. John Devadason, Unit Head	Apollo Tyres	Supporting Employee through Conti. education	24.01.13
Mr.R.Ramakrishnan, GM Business Development	Cetex Petrochemicals Limited	Petrochemical industries	25.01.13
Prof.A.N.Parameswaran, Dean	S.R.M.University	Strategies and avenues for institute industry interaction	25.01.13
Mr. T. Sarangarajan, Vice President	Hyundai Motor India Ltd.	Skills and project needs of automotive industry	25.01.13
Dr. R. Ramaseshan, Senior Director	Cognizant Technology Solutions	Industrially relevant projects in IT Sector	25.01.13
Mr.R.Anantharaman, General manager	Carborandum universal Ltd	Models for successful industry interaction-case study	25.01.13
Mr.S.Gowthama, Dy.Manager, CT Center	Tube Products of India limited	Characterization of steel weldments	22.02.13

Mr.M.Ramesh kumar,	CVRDE	Research advances in FEA	15.03.13
Mr.Sudhakar Rao PERAM	Dassault Systems India Pvt. Ltd.	Research advances in Finite Element Analysis	15.03.13
Mr.Sreeram Visvanathan,	IBM Global, UAE	Corporate Experience	02.08.13
Dr.M.Suriaynarayanan,	CLRI	Furious form of Chemistry	27.8.2013
Dr.S.P.Sivapirakasam	NIT, Trichy	Ergonomics in Industries,	27.8.2013
Mr. Mediseti Jaganmohan Rao	Ashok Leyland	Intro. to Automotive NVH	17.09.2013
Mr. Bakthavachalam, G.M.	Turbo energy Ltd.	Quality & Manufacturing	27.02.14
Mr. K.Sivakumar, Senior General Manager-Manuf.	TVS Brakes India	Quality System and Six Sigma	28.02.14
Mr. Tank. Sanjay, General Manager (Homologation)	Mahindra & Mahindra	Regulatory requirements for automobiles in India	06.03.14
Dr. Arunkumar M. Sampath, GM.	Mahindra & Mahindra	Engine Noise, Vibration and Harshness	07.03.14
Dr.Prathap Haridoss,	IITM	Carbon Nanotubes – Basics	20.8.2014
Mr.T.Jayararan, Founder, &Mg Director	SECO Controls	Basics of Energy accounting	17.09.2014
Dr.A.Srinivasan, Scientist, Material Science Division	National Inst. for Interdisciplinary Science and Technology (NIIST)	Magnesium Alloys: Introduction & Applications	23.01.2015
Dr.D.Davidson Jebaseelan	Asso.Professor,VIT,Chennai	Automotive safety	28.01.2015
Dr.H.Khalid Rafi, Technical Consultant	Underwriters Lab, USA	3D printing /Additive Manufacturing	04.03.2015
Mr.S.Chandar, Plant Plant Production Head	Ingersoll-Rand(India) Ltd	Professional Excellence and Industry Expectations	25.03.2015
Mr.K.Babu, Retired Manager-Production	Rane Engine Valves Ltd, Chennai	Managerial excellence through 5S concept	01.04.2015

Dr.D.Dinakaran, Professor,	Hindustan University, Chennai	Introduction to condition monitoring systems	07.07.2015
Dr.Ashfag Mohammad, Assistant Professor,	King Saud Univerisy, Saudi Arabia	Metal Based 3-D Printing	27.07.2015
Mr.Rubesh Dhananjayan, Lead Degital Designer,	Butterfly Appliances Ltd,Chennai	Requirements of automotive design and product design industry in India and Abroad	26.08.2015
Mr.Maasha Nazeem	Enterpreneaur	Applied Engineering and Creative Science	24.02.2016
Mr.Purushothaman.S, Management Consultant	Visiting faculty at SRM University and Apollo Institute of Management and allied Science	Inquisitive approach for Engineering Innovations in today's Industry	25.02.2016
Dr. M. Govinda Raju, Principal Engineer	NFTDC,Hyderabad	Advanced Materials and Manufacturing	07.03.2016
Mr.Venkadesh Narayahan, Consultant	Phyisics Business Consultant, Pvt Ltd	Introduction to New Product Development	30.03.2016
Dr.R.Bharanidharan,	Asso.Professor,VIT-Vellore	MEMS	18.07.2016
Dr.R.Rajmohan,	Asso.Prof, Anna University, Chennai	Multi Criteria Decision Making	18.07.2016
Mr.Senthil Kumar	Entrepreneur founder of Thors e-Learning Solutions Inc, USA Indian	Enterprenership	26.07.16
R.Santhosh kumar,	Lead simulation Engineer Sim info systems	Powerplant simulation	16.08.16
Dr.D.Dinakaran,	Professor, Hindustan University, Chennai	Trends and Opportunities in Robotics	23.08.16
Dr.Raghunathan,	Professor, Chemical Engineering Department, I.I.T, Madras	Microfluidics-An introduction	08.02.17
Mr.Srirajasekhar Bobby Koritala,	CEO, Bodaty	What Industry expects out of fresh graduates	22.03.17

### 33. Teaching methods adopted to improve student learning

All classes are internet enabled and have dedicated laptop and projection system. This facilitates online presentations. Digital method of content delivery saves a lot of time and

facilitates good interaction in class. The content is also posted in intranets and so remain as a permanent reference material for the students, irrespective of their presence or absence in class.

Practical classes are approached with pre-documented content that helps in understanding the purpose and method of doing an experiment. In addition, students are encouraged to do hands on experiments beyond syllabus, through internally funded projects. The curriculum has a Design and Fabrication project in sixth semester and a major project during the eighth semester. In order to cultivate research, students are taken through a special program called Quick Launch Program, wherein during the second year itself, students are exposed to all the research areas of faculty, who offer projects out of their ongoing research areas.

Digital content delivery and early initiation into research are the two major approaches followed by SSN.

#### **34. Participation in Institutional Social Responsibility (ISR) and Extension activities**

The college has two Schemes to take care of the social activities

- National Student Service Scheme (NSS)
- Youth Red Cross Society (YRC).

#### **35. SWOC analysis of the department and Future plans:**

##### **Strengths:**

- Well qualified faculty with diverse research interests.
- Sufficient number for externally funded research projects to trigger interest in students.
- Meritorious students with a lot of interest in hands on approach.
- Well equipped labs and classrooms for conducive learning environment.
- Retention Rate of Teaching Faculty is high

##### **Weakness:**

- Unable to attract interaction from industries.
- Two MoUs have been signed.

##### **Opportunities:**

- Good job market for mechanical students.
- Students displaying fabrication skills as in manufacturing cars for SUPRA and Go-Kart competitions.
- Faculty is able to interact with CII , FICCI and IMTMA (Confederation of Indian Industries, Federation of Indian Chambers of Commerce and industry , Indian Machine Tool Manufacturers Association)

**Challenges:**

- Many of the research done at the Department have the potential to be converted to Industrial application. (For example-friction stir processing, quenching using nano materials, phase change materials for energy savings). The challenge is to create visibility for our research among the industries.
- Several projects of the sixth semester Design and fabrication project scheme have been developed for potential patenting. Around three products have been identified for patenting. This will enhance our visibility.

## EVALUATIVE REPORT OF THE DEPARTMENT OF CIVIL ENGINEERING

1. Name of the department : **Civil Engineering**
2. Year of Establishment : **2011**
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D. , Integrated Masters; Integrated Ph.D. , etc.): **UG - B.E. Civil Engineering**
4. Names of Interdisciplinary courses and the departments/units involved:  
**Nil**
5. Annual/ semester/choice based credit system (programme wise):  
**The Programme offered is under Semester System**
6. Participation of the department in the courses offered by other departments

Sl. No	Department	Semester	Subject Code-Title
1	B.Tech. (Chemical Engg.)	III	CH6302 – Mechanics of Solids
2	B.Tech. (Chemical Engg.)	II	GE6253 – Engineering Mechanics
3	B.Tech. (Chem.Engg. & IT)	I	GE6152 – Engineering Graphics
4	B.E. (BME & CSE)	I	GE6152 – Engineering Graphics
5	B.E. (Mechanical Engg.)	III	GE6351 - Environmental Science and Engg.
6	B.E. (EEE)	II	GE6251 - Basic Civil and Mechanical Engg.

7. Courses in collaboration with other universities, industries, foreign institutions, etc. **Nil**
8. Details of courses/programmes discontinued (if any) with reasons **Nil**
9. Number of teaching posts:

Sl. No.	Designation	Sanctioned	Filled
1	Professor	1	3
2	Associate Professor	4	6
3	Assistant Professor	7	2

Sanctioned Strength = Total number of students sanctioned in II, III & IV yrs /15

Cadre Ratio is P: ASP: AP: 1:3:6

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.,)

Sl. No.	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
1	Dr.S.Ramanagopal	Ph.D.	Professor & Head	Structural Engg.	24	-
2	Dr.Y.K.Sabapathy	Ph.D.	Professor	Structural	20	-

				Engg.		
3	Dr.P.Sreehari	Ph.D.	Professor	Water Resources Engg.	21	-
4	Dr.B.Mahalingam	Ph.D.	Associate Professor	Structural Engg.	20	-
5	Dr.Srinath Rajagopalan	Ph.D.	Associate Professor	Environmental Engg.	11	-
6	Dr.R.Vijayalakshmi	Ph.D.	Associate Professor	Structural Engg.	5	-
7	Dr.S.V.Sivapriya	Ph.D.	Associate Professor	Geo Technical Engg	4	-
8	Dr.R.Rajkumar	Ph.D.	Associate Professor	Structural Engg.	19	-
9	Dr.S.Muthulingam	Ph.D.	Associate Professor	Structural Engg.	6	-
10	Ms.P.Sangeetha	MS	Assistant Professor	Structural Engg.	16	-
11	Ms.R.Sumetha	M.Tech.	Assistant Professor	Transportation Engg.	3	-

11. List of senior visiting faculty: **Nil**

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: **Nil**

13. Student -Teacher Ratio (programme wise)

Sl. No.	Programme	Students@	No. of Faculty	STR
1	UG – B.E. Civil Engineering	180	11	1:16

@ Total students in 2nd, 3rd and 4th yrs.

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

Sl. No.	Type	Sanctioned @	Filled
1	Technical Staff	6	4
2	Administrative Staff	3	2

@ Technical staff = Max number of labs used in a semester; Admin Staff = 1.5% of Total No of students in second, third and fourth years

15. Qualifications of teaching faculty with D.Sc./ D.Litt./ Ph.D./ M. Phil. / PG.

Sl. No.	Qualification (D.Sc./ D.Litt./ Ph.D./ M. Phil. / PG.)	Total
1	D. Sc./D.Litt./M.Phil	Nil
2	Ph.D.	9
3	PG	2

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received

- a. National : **One**  
b. International : **Nil**

## 17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received

Sl. No	Investigators	Project Title	Funding Agency	Amount		Date of Approval	Status
				Sanctioned	Received		
1	Dr.S. Muthulingam	Impact of climate change and chloride induced corrosion damage risks of concrete infrastructure deterioration along coastal regions of India	SERB, DST, Govt.of India	Rs 33.32 Lakh	Rs 16.73 Lakh	10-01-17	On going
2	Dr. Mohammed Haneefa & Dr. S. Ramanagopal	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 2.58 Lakh	16-10-14	Completed
3	Dr. B. Mahalingam	A Study of Self Compacting Concrete Using Alternative Cementitious Materials	SSN Trust	Rs 2.25 Lakh	Rs 1.92 Lakh	16-10-14	Completed
4	Dr.R. Vijaya lakshmi & Mrs.P. Sangeetha	Study on the Behaviour of concrete filled Stub columns under compression	SSN Trust	Rs 2.2 Lakh	2.05 Lakh	30-09-15	Completed
5	Dr.Sivapriya SV	Effect of eccentricity in laterally loaded pile group in a sloping ground	SSN Trust	Rs 2.65 Lakh	Rs 1.9 Lakh	06-10-16	On going
6	Dr.R.Srinath & Dr. B. Mahalingam	In-site remediation of hexavalent chromium in soil and aquifers	SSN Trust	Rs 4.90 Lakh	-	06-10-16	On going



18. Research Centre /facility recognized by the University: **Yet to be recognized**

19. Publications:

- Publication per faculty
- Number of papers published in peer reviewed journals (national /international) by faculty and students
- Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

S No	Faculty	Designation	Conf. Papers	Jl. Papers	Quality Indices #				
					Citation Index	SNIP	SJR	Impact Factor	h-index
1	Dr.S.Ramanagopal	Professor	-	2	40	0.79	0.36	0.6	2
2	Dr.Y.K.Sabapathy*	Professor	-	2	1	0.402	0.217	0.16	-
3	Dr.P.Sreehari	Professor	1	4	1	0.729	0.152	0.74	1
4	Dr.B.Mahalingam*	Asso. Prof.	2	5	2	0.156	0.168	0.091	1
5	Dr.R.Srinath	Asso. Prof.	-	1	916	1.643	2.284	4.315	7
6	Dr.R.Vijayalakshmi	Asso. Prof.	-	1	5	-	-	-	1
7	Dr.S.V.Sivapriya*	Asso. Prof.	-	1	5	-	-	-	1
8	Dr.R.Rajkumar*	Asso. Prof.	1	7	31	-	-	-	3
9	Dr.Mohammed Haneefa	Asso. Prof.	1	3	40	0.2	0.15	0.08	2
10	Dr.S.Muthulingam	Asso. Prof.	1	6	37	1.392	0.699	0.88-1.2	2
11	Ms.P.Sangeetha*	Asst. Prof.	3	7	11	0.79	0.36	0.6	2
12	Ms. R.Sumetha	Asst. Prof.	1	-	-	-	-	-	-

Most papers are listed in the various International Data Bases

The Range of the Indices are given considering all the Journal papers published by each faculty (#)

(\*) Publication along with the students.

- Books with ISBN/ISSN numbers with details of publishers **Two**

1. B.Mahalingam, "Construction Techniques, Equipment and Practice", ARS Publications, (ISBN: 9789384608613), India, 2016.
2. R.Rajkumar, "Structural performance of buried flexible plastic pipe", Scibay Publications, (ISBN: 9788193281949), India, 2016.

20. Areas of consultancy and income generated: **Nil**

21. Faculty as members in

b) National committees b) International Committees c) Editorial Boards....

Sl. No.	Name	Designation	Committees/Editorial Board details	Period
1	Dr.S.Ramanagopal	Professor & Head	Member in Syllabus subcommittee, Faculty of Civil Engineering, Anna University, Chennai. Member in Board of Studies,	2012-2013 2016-2019

			Faculty of Civil Engineering, Anna University, Chennai.	
2	Dr.R.Rajkumar	Associate Professor	Editorial Board Member in International Journal of Design and Manufacturing Technology	2014-Till date
3	Dr. Mohammed Haneefa K	Associate Professor	Reviewer in the following Journals - ASCE - Materials in Civil Engineering - ACI - Materials Journal - Materials & Design - Steel Research International - Indian Concrete Journal	2014-Till date
4	Dr. S. Muthulingam	Associate Professor	Reviewer in Corrosion Science	2014-Till date

## 22. Student projects

- Percentage of students who have done in-house projects including inter departmental/programme
- Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies

Sl. No.	Academic Year	In-house Projects in Percentage	External Project in Percentage
1	2016-17	100	-
2	2015-16	100	-
3	2014-15	89	11

## 23. Awards / Recognitions received by faculty and students

**Faculty**

Name	Designation	Awards / Recognitions
Dr.S.V.Sivapriya	Associate Professor	IGS – AIMIL Biennial Best Paper Award - 2014
Dr.Mohammed Haneefa	Associate Professor	Indian Concrete Institute (ICI)Best Ph.D. Thesis award -2014

**Students**

Sl. No.	Name of the Students Participated	Title / Category	Conference / Technical Symposium	Organization	Prize Secured
1	Praveen R Hari Narayanan R Ajay Kumar M	Civil Simplified National Level Bridge Design Challenge	Technex' 14 IIT (BHU) Varanasi. held on 18-19, Jan' 14	Civil Simplified, N.H.C.E., Bangalore	Best Innovation Award
2	Sudirr A Nanda ShilpaShasidaran	Tech Race	National Level Technical Symposium ARTJFEX-	SVCE, Sriperumbudur	I

3	Balaji V C Sandeep S	Funstruction	2014 held on 25.08.14		
4	Elamathy M Lavanya H	Technical Paper Presentation	National Level Tech. Sympo. INGENIA' 14 held on 26.09.14	Jerusalem College of Engg., Chennai	II
5	Deepak Kumar D	Draft Draw	Dream Design Competition held on 10-12 September, 14	Saveetha Engineering College, Chennai	I
6	Nijandan H Sathya A Priya C	Connections	National Level Technical Symposium INZENJER' 14, held on 10.10.2014	VELS University, Chennai	I
7	Nijandan H	Technical Quiz			I
8	Sathya A Priya C	Technical Quiz			II
9	Elamathy M Lavanya H	Paper Presentation			II
10	Deepak Kumar D	Paper Presentation	National Level Technical Symposium INSTRUOFETE' 15 held on 31.01.2015	Panimalar Engineering College, Chennai	II
11	Revathy D Haripriya V P	Quest	Civilisation' 15 held on 26- 28, March, 2015	CEG, Anna University, Chennai	III
12	K.Abinaya Dharshana Rajasekar Nijandhan.H	Technical Quiz	Symplix 2K16-27, Feb 2016	MNM Jain Engineering College	III
13	Roshini.A Sai Pradeep.G	Vibrance(Poster Presentation)		MNM Jain Engineering College	I
14	Dachina.G	Walk In	Civilisation 16 on 25 to 27, March 2016	Anna University(CEG)	I
15	Dharani.C Siva Kumar.M	Material Abstract	Refuerzo 16, March 30 2016	Agni College of Technology	I
16	Siva Kumar.M Karthik.R	Techno Quest		Agni College of Technology	I
17	Reshma.S Nanthini.S	Code Cracking		Agni College of Technology	II
18	Akshay D Desai	Quriosity	Technical Quiz, DAKSH 17, Feb 24-26, 2017	Sastra University	III
19	Nikhileesh N U	Quriosity	Technical Quiz, DAKSH 17, Feb 24-26, 2017	Sastra University	III
20	Akash R	Poster Presentation	National Tech Symposium, HOOVER 17, Feb 7, 2017	T J S Engg College	I
21	B. Pown Krishnan	Poster Presentation	National Tech Symposium, HOOVER 17, Feb 7, 2017	T J S Engg College	I
22	Vignesh B S	Poster Presentation	National Tech Symposium, HOOVER 17, Feb 7, 2017	T J S Engg College	I
23	Kannan Meena	UNHRC for CHINA	Model United Nations conference, Jan 13-15, 2017	IIT Madras	Special Award
24	Kannan Meena	Council of EC	Hindustan Young Leaders Conference 2017, Jan 27- 29, 2017	KCG College of Technology	Special Award

## 24. List of eminent academicians and scientists / visitors to the department

Sl. No	Date	Name & Organization
1	6-09-12	Dr.A.R.Santhakumar, Former emeritus Professor, IITM and Dean of Civil Engineering, Anna University, Chennai
2	25-01-13	Mr.T.Mohan, Chairman, High Court Monitoring Committee, Chennai.
3	16-08-13	Dr.R.G.Robinson, Professor, Department of Civil Engineering, IITM, Chennai
4	30-01-14	Ar.C.N.Raghavendran, Chairman, IGBC, Chennai chapter.
5	20-03-14	Dr.Sundar Kumar, Scientist, Structural Engineering Research Centre, Chennai
6	25-03-14	Dr.Ravindra Gettu, Professor, Department of Civil Engineering, IITM, Chennai
7	25-03-14	Dr. N.P.Rajamane, Former Scientist, SERC, Chennai.
8	23-07-14	Dr.S.Sundramoorthy, Former Engineering Director, CMWSSB.
9	18-09-14	Dr.S.Nallayarasu, Professor, Department of Ocean Engineering, IITM, Chennai.
10	26-02-15	Mr.N.Pichaimurthi, Senior Arbitrator, M/s Gammon India Ltd., Chennai
11	19-03-15	Dr.Devdas Menon, Professor ,Department of Civil Engineering, IITM, Chennai
12	20-03-15	Dr.R.Sivacoumar, Senior Principal Scientist, NEERI, Chennai.
13	20-03-15	Dr.Manu Santhanam, Professor ,Department of Civil Engineering, IITM, Chennai
14	27-07-15	Dr.M.Muttharam, Professor, Department of Civil Engineering, CEG, Anna University, Chennai.
15	4-02-16	Dr.Rupan Goswami, Professor, Department of Civil Engineering, IITM, Chennai
16	4-02-16	Dr.G.S.Palani, Senior Principle Scientist, SERC, Chennai.
17	17-03-16	Dr.Mukesh Doble, Professor, Department of Bio Technology, IITM, Chennai.
18	17-03-16	Dr.Indumathi M Nambi, Associate Professor, Department of Civil Engineering, IITM, Chennai
19	17-03-16	Dr.Vijaya Ravichandran, Scientist, NIOT, Chennai.
20	25-07-16	Dr.Sunitha K Nayar, Scientist, Department of Civil Engineering, IITM, Chennai
21	24-08-16	Mr.B.N.S.Chalam, Senior Divisional Engineer, Southern Railways.
22	15-09-16	Dr.K.P.Jaya, Professor, Division of Structural Engineering, Anna University, Chennai
23	15-09-16	Dr.C.Umarani, Professor, Division of Structural Engineering, Anna University, Chennai
24	27-01-17	Dr.G.Appa Rao, Associate Professor, Department of Civil Engineering, IITM Chennai

25	03-02-17	Dr.B.Venkatraman, Associate Director, Health, Safety & Environmental Group, IGCAR, Kalpakkam
26	03-02-17	Dr.M.A.Atmanand, Former Director & Scientist-G, NIOT, Chennai
27	03-02-17	Mr. M.K. Pathak, Scientist E, Research and Development Establishment (Engineers), DRDO, Pune
28	03-02-17	Dr. P.Mukhopadhyay, Scientist -E, Indian Institute of Tropical Meteorology, Pune
29	03-02-17	Dr. Kaustav Chakravarty, Scientist -E, Indian Institute of Tropical Meteorology, Pune
30	03-02-17	Dr. A. Boominathan, Prof., Geotechnical Engg. Division, Dept. of Civil Engg., IITM, Chennai
31	03-02-17	Dr. Goudappa Dodagoudar, Prof., Geotechnical Engg. Division, Dept. of Civil Engg., IITM, Chennai
32	04-02-17	Dr. Saswati Mukerjee, Prof. & Head, Department of Information Sciences and Technology, Anna University, Chennai
33	04-02-17	Dr. R.Venkatesan, Scientist-G, Group Head - Ocean Observation Systems, NIOT, Chennai
34	04-02-17	Mr. G.Padmanaban, Senior Manager, Communication & Telecom Infra., L&T Construction, Chennai
35	04-02-17	Dr. S.Mohan, Prof., Environmental & Water Resources Engg. Division, IITM, Chennai
36	04-02-17	Dr. G.P.Ganapathy, Director, Center for Disaster Mitigation & Management, VIT University, Vellore
37	24-03-17	Dr.G.Vijayakumar, Professor, Department of Civil Engineering, Pondicherry Engineering College, Puducherry

25. Seminars/ Conferences/Workshops organized & the source of funding

a) National

Sl. No.	Title	Seminar/ Conference / Workshop	Duration	Fund Source
<b>2013-14</b>				
1	Recent Advances in Concrete Technology	Workshop	25-03-14	SSN Trust
<b>2014-15</b>				
1	Engineering for Ocean Hydrocarbon Exploration	Workshop	18-09-14	SSN Trust
2	National Conference on Advances in Civil Engineering	Conference	19-03-14 & 20-03-14	SSN Trust
<b>2015-16</b>				
1	Recent Advances in Geotechnical Engineering.	Workshop	27-07-15	SSN Trust
2	Recent Advancements in Remediation	Workshop	17-03-16	SSN Trust
3	Steel Structures	Seminar	04-02-16	SSN Trust
<b>2016-17</b>				

1	Disaster Mitigation , Responsiveness and Management	National Conference	3 <sup>rd</sup> & 4 <sup>th</sup> Feb 2017	IEEE & SSN Trust
2	Advances in Civil Engineering	National Conference	15-09-16	SSN Trust
3	Construction Management – Best Practices	Workshop	24-03-17	SSN Trust
4	Repair and Rehabilitation of Structures	Seminar	30-01-17	SSN Trust

b) International: Nil

26. Student profile programme/course wise:

**B.E. – Civil Engineering**

Sl. No.	Year	Applications received	Selected	Enrolled		Pass Percentage
				*M	*F	
1	2011-12					
2	2012-13	1890	62	48	14	
3	2013-14	2640	63	40	23	
4	2014-15	2360	63	47	16	
5	2015-16	3140	64	47	17	
6	2016-17	4500	66	45	21	

\*M = Male \*F = Female

27. Diversity of Students

Sl. No.	Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
1	2011-12	95.7	4.3	-
2	2012-13	94.4	5.6	-
3	2013-14	95.8	2.8	1.4(1)
4	2014-15	97.1	2.9	-
5	2015-16	95.8	2.9	1.4(1)
6	2016-17	97	3	-

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Sl. No.	Batch	GATE	Defence Service
1.	2011-2015	8	1
2	2012-2016	7	-
3	2013-2017	6	-

## 29. Student progression

Student progression	Against % enrolled		
	2011 - 2015	2012-2016	2013-2017
UG to PG	34.3	22.8	-
PG to M. Phil.	NA	NA	NA
PG to Ph.D.			
<b>Employed</b>	58.6	42.9	32.4
Campus selection			
Other than campus recruitment			
Entrepreneurship/ Self-employment	2.8	2.8	-

## 30. Details of Infrastructural facilities

## (a) Department Library - (50.53 Sq.m area)

Year	Number of New Titles Added	Number of New Volumes Added
2013-14	143	271
2014-15	57	77
2015-16	33	57
2016-17	15	26

## Online Resources

Sl. No.	Online Resources	Details
1	ASCE - American Society for Civil Engineering	35 Journals
2	ASTM - American Society of Testing and Materials	6 Journals
3	JGATE – Engineering	4091 Journals
4	Science Direct – Engineering + Computer Science	275 Journals
5	Springer Link	586 Journals
6	McGraw-Hill e-book	321 books
7	NPTEL Video Courses	110 Numbers
8	NPTEL Web Courses	129 Numbers

## b) Internet facilities for Staff &amp; Students

- Name of the Internet provider : M/s. Airtel & M/s. Aircel
- Available bandwidth : 155 + 155 = 310 Mbps
- Availability of Internet in an exclusive lab : Internet is available in all
- Availability in faculty rooms : labs & Faculty rooms
- Institute's own e-mail facility to faculty/students:  
Yes, Institution email ID: \*@ssn.edu.in is given to all including students

## c) Class rooms with ICT facility : 3 (120.77 sq.m each)

## d) Laboratories

Sl. No.	Laboratory description in the Curriculum	Space (sq.m)/ number of students	Cost of Establishment (Rs)
1	Strength of Materials Lab	148 / 35	10,45,270
2	Hydraulics Engg. Lab	223/ 35	17,23,853

3	Soil Mechanics Lab	158/ 35	9,42,967
4	Environmental Engg. Lab	163 / 35	8,37,498
5	Survey Lab	78/ 35	13,89,228
6	Concrete & Highway Engg. lab	300 / 35	8,30,708
7	Computer Lab	250 / 35	25,51,790

31. Number of students receiving financial assistance from college, university, government or other agencies

Agency	Number of students provided with financial assistance in Years					
	2016-17	2015-16	2014-15	2013-14	2012-13	2011-12
By SSN Trust	42	35	45	26	25	9
By Government	35	37	16	13	10	5

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts:

Sl. No.	Date	Guest Lecture Topic	Name of the Expert
1	25-03-13	Environmental Engg. - A moral or an engineering subject	Mr.T.Mohan
2	16-08-13	Understanding the Earth	Dr.R.G.Robinson
3	04-10-13	Transportation Engineering and GIS	Dr.R.S.Vasanth Kumar
4	20-03-14	Repair and rehabilitation of Structures	Dr.Sundar Kumar
5	23-07-14	Potential Pathways in the coming years	Dr.Sundaramoorthy
6	26-02-15	Contracts and Contract Administration	Mr.N.Pichaimurthi
7	24-09-15	Water Scarcity and the role of storage in development	Dr.M.Umashankar
8	04.02.16	Seismic connections & Earthquake resistant buildings	Dr.Rupen Goswami
9		Computational structural mechanics for analysis & design	Dr.G.S.Palani
10	25-07-16	Fiber Reinforced Concrete	Dr.Sunitha K Nayar
11	24-08-16	Career Orientation-ESE	Mr.B.N.S.Chalam
12	30-01-17	Retrofitting of beam column joint	Dr.G.Appa Rao
13	30-01-17	Retrofitting of column using FRP jacketing	Mr.Periasamy
14	24-03-17	Project planning, management and concepts	Dr.G.Vijayakumar
15	24-03-17	Resource allocation and resource levelling	Dr.M.P.Venkatesh

33. Teaching methods adopted to improve student learning

- Technology enabled courses delivery system (E-learning) is practiced to motivate the students learning ability. Lesson plan along with lecture notes and assignment sheets are provided on the college intranet.
- Three internal assessment tests are conducted in a centralized manner for all theory courses.
- Two class committee meetings are conducted in a semester with the student representatives and faculty members to review the progress of the courses.



- Industrial visits are arranged once in a semester to help the students to gain hands on experience in field. Students are encouraged to undergo inplant training and internship in industries and research institutes during semester vacation.
- Personality development training programmes are conducted at their third and final year of study so as to equip them for placement. Guidance is given for competitive exams such as GATE, GRE, TOEFL, IELTS etc.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

The college has clubs to take care of the social activities

- National Student Service Scheme (NSS).
- Youth Red Cross Society (YRC).
- Entrepreneurship Development Cell (EDC).
- Enactus – a student initiated club.

35. SWOC analysis of the department and Future plan

**Strengths**

- Qualified and experienced faculty of adequate number
- Well equipped laboratories
- Well stocked central library and departmental library to meet the requirement of students and faculty
- Active research programs as part of MOU's with the Industries
- Formal recognition and respect of the department among its peers
- Significant number of projects of department students funded by SSN Trust
- Good retention of faculty members

**Weaknesses**

- Being a young department, requirement of additional equipment for specialized research
- Due to affiliating system, introducing new subjects is restricted

**Opportunities**

- Leverage the expertise in the area of Concrete Technology, Design and Analysis of Structures, Soil investigations, Water quality testing and Materials testing to provide consultancy

**Challenges**

- To obtain funding from external agencies for doing research projects in major fields of Civil Engineering
- To motivate the students to take up industry related problems for project work
- To improve the placement with major infrastructure and core companies

**Future plans**

- To start PG programme in the field of Structural Engineering
- To obtain the research centre status and increasing the research output

## EVALUATIVE REPORT OF THE DEPARTMENT OF SCIENCE & HUMANITIES

1. **Name of the department:** Science & Humanities comprising Mathematics, Physics, Chemistry & English
2. **Year of Establishment:** 1996
3. **Names of Programmes / Courses offered** (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.): Ph.D.  
It is not offering any programme of its own; it is a supporting department for all UG and PG Engineering Programmes
4. **Names of Interdisciplinary courses and the departments/units involved:** NA
5. **Annual/ semester/choice based credit system** (programme wise):  
All programmes offered are on semester pattern only
6. **Participation of the department in the courses offered by other departments:**

(Caters to the needs of Engineering Departments' requirement for Mathematics, Physics, Chemistry, English courses in their curriculum)

Sl. No.	Name of the course & course code	UG/PG	Semester
1	HS6151 -Technical English-I	UG	1
2	HS6251-Technical English-II	UG	2
3	MA6151-Mathematics-I	UG	1
4	MA6251-Mathemtics-II	UG	2
5	MA6351-Transforms and Partial Differential Equations	UG	3
6	MA6453-Probability and Queuing Theory	UG	4
7	MA6451-Probability and Random Processes	UG	4
8	MA6468-Probability and Statistics	UG	4
9	MA6452-Statistics and Numerical Methods	UG	4
10	MA6459-Numerical Methods	UG	4
11	MA6566-Discrete Mathematics	UG	5
12	MA7155-Applied Probability and Statistics	PG	1 M.E.-CSE
13	MA7155-Applied Probability and Statistics	PG	1 M.E.-SE
14	MA7155-Applied Probability and Statistics	PG	1 M.Tech.-IT
15	MA6157-Applied Mathematics for Electronics Engineers	PG	1 M.E.-AE
16	MA6157-Applied Mathematics for Electronics Engineers	PG	1 M.E.-VLSI
17	MA6157-Applied Mathematics for Electronics Engineers	PG	1 M.E.-BME
18	MA6173-Applied Mathematics for Electrical Engineers	PG	1 M.E.-PED
19	MA7158-Applied Mathematics for	PG	1 M.E.-CS

	Communication Engineers		
20	MA7169-Advanced Numerical Methods	PG	1 M.E.-Energy
21	MA7169-Advanced Numerical Methods	PG	1 M.Tech. - Chemical
22	MA7165-Applied Probability and Statistics	PG	1 M.E. - Manf.
23	PH6151-Engineering Physics-I	UG	1
24	PH6251-Engineering Physics-II	UG	2
25	CY6151-Engineering Chemistry-I	UG	1
26	CY621-Engineering Chemistry-II	UG	2
27	CH6301-Organic Chemistry	UG	3
28	CH6303-Physical Chemistry	UG	3
29	GE6351-Environmental Science and Engineering	UG	3
30	CH6501-Instrumental Methods of Analysis	UG	5

7. **Courses in collaboration with other universities, industries, foreign institutions, etc.:** NIL

8. **Details of courses/programmes discontinued (if any) with reasons:**  
NIL

9. **Number of teaching posts**

	Sanctioned	Filled
Professors	5	7
Associate Professors	11	3
Asst. Professors	36	36

## 10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. Etc.,)

Sl. No.	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
1	Dr. S. Narasimman	Ph.D.	Professor	Fluid Dynamics	24	2
2	Dr. B. Praba	Ph.D.	Professor	Algebra, Fuzzy theory	21	9
3	Dr. P. Venugopal	Ph.D.	Asso. Prof.	Graph theory	21	1
4	Dr. I.Jayakaran Amalraj	Ph.D.	Asso. Prof.	Fluid Dynamics	23	2
5	Dr. R. Sujatha	Ph.D.	Asst. Prof.	Coding theory, Fuzzy theory	16	9
6	Dr. N. Padma Priya	Ph.D.	Asst. Prof.	Image processing	14	2
7	Dr. R. Sundereswaran	Ph.D.	Asst. Prof.	Graph theory	12	1
8	Dr. M. Shanmugha Priya	Ph.D.	Asst. Prof.	Fluid dynamics	10	1
9	Dr. G. Kalpana	Ph.D.	Asst. Prof.	Fuzzy topology	9	-
10	Dr. S. Sophia	Ph.D.	Asst. Prof.	Stochastic process	7	-
11	Dr. S. Vanitha	Ph.D.	Asst. Prof.	Stochastic process	7	-
12	Dr. M. Sundarakannan	Ph.D.	Asst. Prof.	Graph theory	7	-
13	Dr. C. Kalaivani	Ph.D.	Asst. Prof.	Fuzzy topology	5	-
14	Dr. T.M. Rajalaxmi	Ph.D.	Asst. Prof.	Fuzzy theory	5	3
15	Dr. M. Sampathkumar	Ph.D.	Asst. Prof.	Graph theory	4	-
16	Dr. V. Veembarasan	Ph.D.	Asst. Prof.	Stability analysis, Image processing	1	-
17	Dr. S. Yugesh	Ph.D.	Asst. Prof.	Applied Harmonic analysis	1	-

18	Dr. A. Rajalakshmi	Ph.D.	Professor	X-ray Spectroscopy and X-Ray Crystallography	25	2
19	Dr. Prita Nair	Ph.D.	Professor	Fiber Optics. Phy.(Elec)	18	8
20	Dr. S. Masilla Moses Kennedy	Ph.D.	Asso. Prof.	Thermo luminescence and Photo luminiscence	22	4
21	Mr. Singaravadivelu	M.Phil	Asst. Prof.	Crystal Growth and Characteri sation	27	-
22	Dr. N.P. Rajesh	Ph.D.	Asst. Prof.	Crystal Growth and Characteri sation	15	12
23	Dr. Julie Charles	Ph.D.	Asst. Prof.	Spectro physics	14	1
24	Dr. P. Rajesh	Ph.D.	Asst. Prof.	Crystal Growth	8	3
25	Dr. G. Anandha Babu	Ph.D.	Asst. Prof.	Crystal Growth	7	3
26	Dr. P.Nagapandiselvi	Ph.D.	Asst. Prof.	Crystallography and Crystal Growth	3	-
27	Dr. A.Chandrasekaran	Ph.D.	Asst. Prof.	Radiation Physics and Spectroscopy	8.5	-
28	Mr. Nafis Ahmed	(Ph.D.)	Asst. Prof.	Thin film Photovoltaics	8	-
29	Dr. Balaji Bhargav	Ph.D.	Asst. Prof.	Polymer Electrolyte Thin Films, Photovoltaic	9	1
30	Dr. M. Senthil Pandian	Ph.D.	Asst. Prof.	Crystal Growth, Thin Films, Solar Cells	5	8
31	Dr.K.Aravinth	Ph.D.	Asst. Prof.	Ceramics and Crystal growth	2.5	-
32	Dr. V.S.Gayathri	Ph.D.	Professor	Organic Chemistry	<b>26</b>	<b>1</b>

33	Dr. Sunita Nair	Ph.D.	Professor	Analytical Chemistry	27	-
34	Dr. M. Siluvai Michael	Ph.D.	Asst. Prof.	Electro Chemistry	12	3
35	Dr. M. Mahalakshmi	Ph.D.	Asst. Prof.	Environmental Chemistry	11	3
36	Dr. S.I.Davis Presley	Ph.D.	Asst. Prof.	Polymer Chemistry	6 years 3 Months	-
37	Dr. T.Arun Luiz	Ph.D.	Asst. Prof.	Inorganic Chemistry	7 years 6 Months	-
38	Dr. A.Murugesan	Ph.D.	Asst. Prof.	Polymer and environmental Chemistry	9 Month	-
39	Dr. Tanushree Sengupta	Ph.D.	Asst. Prof.	Organic Chemistry	9Month	-
40	Dr. N. Priyadarshini	Ph.D.	Asst. Prof.	Inorganic and physical Chemistry	9Month	-
41	Dr. S. Thiruvankataswami	Ph.D.	Professor	ELT	32	1
42	Dr. Martha Karunakar	Ph.D.	Asst. Prof.	ELT and Children's Literature	16	-
43	Dr. Divya John	Ph.D.	Asst. Prof.	ELT and Literature	13	1
44	D. Praveen Sam	Ph.D.	Asst. Prof.	Asynchronous e-learning – teaching of English language	11.5	-
45	Dr. M. Shyamala Bharathy	Ph.D.	Asst. Prof.	ELT	18	-
46	Dr. C. Deepesh	Ph.D.	Asst. Prof.	Multilingualism, critical pedagogy, language & identity	14	

	<b>Others</b>					
47	Dr. P. Balaji	Ph.D.	Physical Director	Physical Education	21	
48	Dr. G.Sethuraman	Ph.D.	Librarian	Library Science	26	
49	Ms. Rebecca Theophilus	MBA	Manager-HR	Human Resources	32	
50	Dr. S. Nanda	Ph.D.	Student Counsellor	Applied Psychology	15	
51	Mr. A.S. Sriram	MCA	Senior Manager – Placement	Human Resources	11	

**Number of faculty members from other departments handling subjects for first year B.E./B.Tech. students: 6**

11. List of senior visiting faculty: NIL

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: NIL

13. Student -Teacher Ratio (programme wise)

Sl. No.	Programme	Students	No. of Faculty#	STR
1	B.E./B. Tech.	780	52	1:15

14. Number of academic support staff (technical) and admin. staff; sanctioned and filled:

Support staff	Sanctioned	Filled
Technical	5	5
Administrative	5	5

15. Qualifications of teaching faculty with D.Sc./ D.Litt./ Ph.D./ M. Phil. / PG.: Ph.D.-

Sl. No.	Ph.D.	M.Phil.
1	44	2

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:

Sl. No.	Nature of the Project	Number of Faculty
1	National	12
2	International	-



**17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received (past 4 years 2015-16, 2014-15, 2013-14, 2012-13)**

Sl. No.	P.I. & Co P.I.	Title of the project	Funding Agency	Amount sanctioned (in Lakh)	Amount received (in Lakh)	Date of approval / Duration	Status
1	R.Sujatha, S.Narasimman	Markov Approach for Reliability Assessment of Safety Critical Software	AERB	5.81	5.42	2013-2015	Completed
2	R.Sujatha, S.Narasimman	Reliability of Fuzzy Hidden Markov Model and Intuitionistic Fuzzy Markov Model	DST-SERB	10.14	6.00	2014-2017	On going
3	R.Sujatha	A study on fuzzy hidden Markov chain with states depending on observation	DST-WOSA	13.91	5.05	2015-2018	On going
4	Siluvai Michael	Nano Catalyst Embedded Hierarchically Porous Carbon AIR Cathode for Li/Air rechargeable batteries	DST-SERB	39.05	22.85	27-2-2015 2015-2018	On going
5	Siluvai Michael	Investigation on Thermally Stable poly- anion electrodes for Li-ion Batteries	NRB	24.92	21.18	14.01.2015 2015-2018	On going
6	M.Mahalakshmi	Visible light active metal and non-metal doped mesoporous TiO <sub>2</sub> nanoparticles for photocatalytic applications	DST-SERB	26	22.5	2012-2015	Completed
7	Dr.P.Rajesh - PIProf. Dr.P.Ramasamy-Co-PI	Development of High Quality Direction	DAE-BRNS	24.3	23.3	2012-2015	On going

		Controlled Lithium Iodate and Lithium Sulphate Single Crystals for Nonlinear Optical applications					
8	Prof. P.Ramasamy- PI Dr.G.Anandha babu -Co-PI	Crystal Growth of Alkaline Earth halide and cesium based Alkaline Earth halide scintillator crystals for Gamma Ray Spectroscopy	DAE-BRNS	24.82	24.82	2012-2015	On going
9	Dr.N.P.Rajesh- PI, Dr.Prita Nair -- Co-PI	Development and characterization of PMN-PT single crystals for under water applications".	DST--SERB	35.5	34	2014-17	On going
10	Dr.G.Anandha babu - PI	Investigations on Crystal growth and characterization of Multiferroic single crystals	UGC-DAE	6.51	6.51	2014-17	On going
11	Prof. P.Ramasamy- PI Dr.G.Anandha babu -Co-PI	Development of improved DS process for mc-Si wafers and their application to solar cells	MNRE	465	50	2015-19	On going
12	Dr.G.Anandha babu - PI	Project: Development of lead-free piezoelectric 0.94Na0.5Bi0.5TiO3-0.06BaTiO3 single crystals for transducer applications	DRDO	50.25	36.25	2015-2018	On going
13	Dr.G.Anandha babu - PI	Growth and Characterization of defect controlled topological insulator Bi2Te2Se and	DST	18.8	10.42	2015-2018	On going

		Bi <sub>2</sub> -xSb <sub>x</sub> Te <sub>3-y</sub> Se <sub>y</sub> single crystals					
15	Dr.P.Rajesh	Growth of high quality homogenous mixed crystals for optical applications	CSIR	19.4	9	2016-2019	On going
16	Dr.S.Thiruvengataswami, Dr.Praveen Sam	Enhancing Reading Competence of Secondary Government School Students.	ELTAI and Panchajanya Trust	5			On going
16	Dr. S. Masilla Moses Kennedy	Fabrication of thermoluminescence (TL)/ TL emission set up for characterizing K <sub>2</sub> Ba(7-x-y)Ca <sub>x</sub> Sr <sub>y</sub> Si <sub>16</sub> O <sub>40</sub> : Eu <sup>2+</sup> phosphor for TL dosimetry applications	SSN CE	5.5	5.3	2014-2017	On going
17	Dr.M.Sundarakannan, Dr.R.Sundaeswaran	Equivalence concepts in intersection graphs	SSN CE	0.30	030	2015-2017	On going
18	Dr. Julie Charles, Dr. K. Sathish Kumar	Synthesis and characterization of ternary Conducting Polymers doped with various concentrations of Prussian Blue and Metal Oxides for Supercapacitor Applications	SSN CE	4.25	1.6	2016-2019	On going
19	Dr.M.Senthil Pandian Prof.P.Ramasamy	Fabrication of stable Perovskite solar cells using inorganic hole transport materials	DST-SERI	75.0		2017-2020	On going

20	Dr.N.P.Rajesh Prof.P.Ramasamy	Investigation on rare earth doped CsI single crystals for scintillation applications	DST SERB	24.35	1	2017-2019	On going
21	Dr.M.Senthil Pandian	High quality unidirectional 4-nitrophenol derivative single crystals for SHG device applications	BRNS	15.15	15.15	2016-2019	On going
22	Dr.M.Senthil Pandian	Unidirectional and bulk growth of high quality nonlinear optical (NLO) 2-amino-5-nitropyridinium (2A5NP) derivative single crystals for Second Harmonic Generation (SHG) device applications	SERB	16.60	15.50	2013-2017	On going

**18. Research Centre /facility recognized by the University:**

The Mathematics, Physics, Chemistry and English Divisions have been recognized as Research Centres by Anna University, Chennai.

**19. Publications:**

Sl. No.	Faculty	Designation	Conf. Papers	Jl. Papers	Citation Indices #				
					Citation Index	SNIP	SJR	Impact Factor	h-index
1	Dr.S.Narasimman	Prof.	7	8	17	0.635,0.966	0.322	0.728,0.746	3
2	Dr.B.Praba	Prof.	6	23	31	0.535,0.86	0.13,0.34	0.24,0.3.72	5
3	Dr.P.Venugopal	Asso. Prof.	4	4	12	0.05,0.853	0.071,0.335	0.259,0.715	2
4	Dr.I.JayakaranAmalraj	Asso. Prof.	1	4	6	0.966	0.33	0.746	1
5	Dr.R.Sujatha	Asst.Prof.	32	16	39	0.635,0.863	0.11,1.2	0.017,1.406	5
6	Dr.P.Padmapriya	Asst.Prof.	9	9	22	0.8533	0.13,0.335	0.507	4

7	Dr.R.Sundereswaran	Asst.Prof.	6	10	25	-	0.13	0.4814	4
8	Dr.M.Shanmughapriya	Asst.Prof.	-	4	2	0.2	-	-	1
9	Dr.G.Kalpana	Asst.Prof.	1	1	26	-	-	-	1
10	Dr.S.Sophia	Asst.Prof.	1	5	5	0.635	0.322,0.58	0.925,3.72	3
11	Dr.S.Vanitha	Asst.Prof.	-	6	66	-	0.13,0.22	0.343	5
12	Dr.M.Sundarakannan	Asst.Prof.	1	5	14	0.599,0.697	0.285,0.393	-	2
13	Dr.C.Kalaivani	Asst.Prof.	1	4	26	0.473	0.228	-	3
14	Dr.T.M.Rajalaxmi	Asst.Prof.	3	10	10	0.404,1.313	0.178,1.2	0.371,3.72	3
15	Dr.S.Sampathkumar	Asst.Prof.	1	2	3	-	0.35	0.465	1
16	Dr.S.Yugesh	Asst.Prof.	2	1	3	-	0.15	-	2
17	Dr.V.Vembarasan	Asst.Prof.	-	1	133	2.236	1.63	3.216	12
18	Dr.A.Rajalakshmi	Prof	2	14	205	1.088	0.176	1.202,2	8
19	Dr.Prita Nair	Prof.	14	15	36	-	0.569,2.157	.742,1.693	3
20	Dr.S.M.M.Kennedy	Asso. Prof.	3	8	39	1.015,1.347	0.538,0.77	(1.261,2.232)	3
21	Mr.S.Singaravadelu	Asst.Prof.	-	-	-	-	-	-	-
22	Dr.N.P.Rajesh	Asst.Prof.	1	20	1074	-	-	1.4,2.5	20
23	Dr.Julie Charles	Asst.Prof.	5	5	41	0.717	0.32,0.36	0.32,1.2	2
24	Dr.G.Anandhababu	Asst.Prof.	3	14	523	-	-	0.769,2.129	14
25	Dr.P.Rajesh	Asst.Prof.	35	30	548	-	-	(0.677,4.034)	12
26	Dr.P.Nagapandiselvi	Asst.Prof.	1	1	34	-	-	2.382	4
27	Dr.A.Chandrasekaran	Asst.Prof.	10	7	391	1.088,1.626	0.176,1.145	(0.774,2.991)	17
28	Mr.Nafiz Ahmed	Asst.Prof.	-	-	-	-	-	-	-
29	Dr.Senthil Pandian	Asst.Prof.	-	-	466	-	-	-	11
30	Dr.K.Aravind	Asst.Prof.	-	-	-	-	-	-	-
31	Dr.Balaji Bhargav	Asst.Prof.	-	-	-	-	-	-	-
32	Dr.V.S.Gayathri	Prof.	2	7	283	0.2,1.843	0.11,1.004	0.15,2.828	5
33	Dr.Sunita Nair	Prof.	-	2	-	-	0.168	0.251	2
34	Dr.M.Siluvai Michael	Asst. Prof.	8	6	872	0.474, 1.450	0.358,1.288	1.3, 4.254	15

35	Dr.M.Mahalakshmi	Asst. Prof.	6	6	359	0.474,1.346	0.358,1.234	1.338,4.012	7
36	Dr.S.I.Davis Presley	Asst. Prof.	-	-	-	-	-	-	0
37	Dr.Arun Luiz.T	Asst. Prof.	-	-	9	-	-	-	2
38	Dr. A. Murugesan	Asst. Prof.	1	4	427	0.671,1.302	0.997,2.63	2.5,6.38	10
39	Dr. Tanushree Sengupta	Asst. Prof.	-	-	101	-	-	-	6
40	Dr. N. Priyadharshini	Asst. Prof.	-	-	13	-	-	-	2
41	Dr. Thiruvengkataswami	Prof.	8	2				0.6	1
42	Dr. Martha Karunakar	Asst.Prof.	3	3					
43	Dr. Divya John	Asst.Prof.	3	4					
44	Dr. Praveen Sam	Asst.Prof.	7	4					
45	Dr. Shyamala .B	Asst.Prof.	--	1					
46	Dr. Deepesh C	Asst.Prof.	2	3					

1. Most papers are listed in the various International Data Bases
2. The Range of the Indices are given considering all the Journal papers published by each faculty(#)

b. Monographs Prepared by the Faculty: Nil

c. Chapters of a Book written by the faculty:

Sl. No.	Faculty as Author	Title of the Book	Title of the paper	Publisher
1	Martha Karunakar	Critical Perspectives on Contemporary Women Poets in Indian English Poetry.	Portrayal of Women in the Selected Works of K. Srilata	AADI Publications, Jaipur.
2	Divya John	Poemlets: The 2015 Collection.	Sunsets and Sunrises, Testing time	Sound Vision Media
3	Divya John	Poetry India – Voices in Shade and Sunshine: An Anthology of All India Poetry Competition 2015.	Love Rewritten	The Poetry Society (India).
4	Deepesh C	ELT Spectrum	Feedback as a Pedagogic Tool in the Second Language Writing Class	The EFL University, Hyderabad
5	M.Sundarakannan	Handbook of Graph Theory, Combinatorial Optimization and Algorithms	Domination in Graphs	CRC Press
6	D.Praveen Sam	English Literature in the Digital Era	Flipped Classroom Model: An Effective Platform for the Natural Approach of Teaching English Language to Tertiary level Engineering Learners	BONFRING

d. List of Books edited:

Sl. No.	Faculty	Title of the Book edited	Publisher/Organisation
1	M.Siluvai Micahel	“Nanotechnology in Advanced Electrochemical Power Sources”	Pan Stanford Publishing Pte Ltd, Singapore

**e. Books Published**

Sl. No.	Title of Book(s)	Author(s)	Publisher
1	Engineering Mathematics & Calculus-I	Dr.B.Praba Dr. Kalavathy, Dr. Shanta	Vijay Nicole imprints Private Ltd
2	Erasure Techniques in MRD Codes	W.B. VasanthaKandasamy, FlorentinSmarandache, R. Sujatha, R.S. RajaDurai	Zip Publishing, Ohio USA
3	V.S.Gayathri,Sunita Nair and K.Yamuna	A text book of Engineering Chemistry I	Dhanam Publications
4	V.S.Gayathri,Sunita Nair and K.Yamuna	A text book of Engineering Chemistry II	Dhanam Publications
5	Dr.T.Arun Luiz	Engineering Chemistry I	S.Chand & Company Pvt.Ltd.
6	Dr.T.Arun Luiz	Engineering Chemistry II	S.Chand & Company Pvt.Ltd.
7	Arun Luiz T	Environmental Science and Engineering	S.Chand & Company Pvt.Ltd.
8	D. Praveen Sam	Communication Skills I & II	MainSpring Publishers, Pvt. Ltd., Chennai – 600 042

**20. Areas of consultancy and income generated:**

Sl. No.	Faculty	Organisation to which consultancy is offered	Area of consultancy	Amount earned (Rs)
1	V.S.Gayathri and Yamuna	Adarsh Line Accessories Pvt. Ltd	Corrosion	Rs. 1,00,000/-

**21. Faculty as members in****a) National committees b) International Committees c) Editorial Boards**

Sl. No.	Faculty	Committee Designation	Period
1	B.Praba	Member, Board of studies, Chandrasekara Viswa Maha Vidyalaya	2004-15
2	B.Praba	Member, Syllabus Committee, Anna University-Regulation 2013	2013
3	B. Praba, R.Sujatha, T.M.Rajalaxmi, P.Venugopal	Member,Scientific Committee,Internl Conf.on Mathl Comp. Engg	2013, 2015
4	A.Rajalakshmi	Member, Syllabus Sub Committee for Physics (B.E/B. Tech.) for Anna University Regulations 2013.	2013



5.	Dr.V.S.Gayathri	Member, Syllabus Sub Committee for Engineering Chemistry, Anna University-Regulation 2017	2016
6	Dr.Divya John	Member, Syllabus Sub Committee for Technical English, Anna University-Regulation 2017	2016

22. Student projects: NA

23. Awards / Recognitions received by faculty and students: NIL

24. List of eminent academicians and scientists / visitors to the department:

1. Dr.S.Banerjee, Chancellor, Homi Bhabha National Institute, Former Chairman, Department of Atomic Energy, Govt. of India
2. Dr.Kallol Roy, CMD, BHAVINI
3. Dr.P.V.Varde, Head, Research Reactor Services Division, BARC, Mumbai.
4. Dr. S. Kumarason, NBHM Visiting Professor, University of Hyderabad.
5. Dr.S.Arumugam, Director, n-CAD MATH.
6. Dr.P.Ramamurthy, Director ,National Centre for Ultra Fast Process, University of Madras.
7. Dr. V.Murugesan , Director, Centre for Research , Anna University.
8. Dr. Praveen Chaddah , Former Director,- DAE-UGC-CSIR
9. Dr.D.D.Rao , Director , DST-SERB
10. Ms. Angella ffrench, Director, Cambridge English, India and SE Asia
11. Ms Padmavathi Chandramouli (Information and Office Manager), DAAD Information Centre, German Academic Exchange Service, Chennai
12. Dr. Sandip Kumar Dhara- Materials Science Group, IGCAR,Kalpakkam
13. Dr. Nirmala R- IIT Madras, Chennai
14. Dr. Prahallad Padhan- IIT Madras, Chennai
15. Prof.Dr.John Philip - Homi-Bhabha National Institute, IGCAR, Kalpakkam
16. Prof. Dr. Harish Kumar N- IIT Madras, Chennai
17. Dr. Amit Roy, Former Director, Inter University Accelerator Center, New Delhi
18. Dr. Dinakar Kanjilal, Director, Inter University Accelerator Center, New Delhi
19. Suddhasatwa Basu, FNASc, FICS, FIE, Associate Dean R&D, IIT Delhi and Professor of Department of Chemical Engineering, Indian Institute of Technology Delhi, New Delhi
20. Dr. G. Sundararajan ,Professor, Dept. of Metallurgical and Materials Engineering, IIT Madras, Chennai - 600100. Distinguish Emeritus Scientist & Chairman, TRC, ARCI
21. Krishna Moorthy Sivalingam (Professor), Head of the Department of Computer Science and Engineering, IIT Madras, Chennai - 600100
22. Indradev Samajdar ,Professor,Department of Metallurgical Engineering and Materials Science, IIT Bombay, Powai, Mumbai 400076
23. Dr. Sirkali G. Sivachidambaram, Singer, Dean, Perambalur medical college
24. Dr. S. Balachandran, Regional Meteorological Department, Chennai
25. Dr. K. Karthikeyan, Former member secretary, TN pollution Control Board.
26. Dr. L. Elango, Head, Department of Geology, Anna university
27. Prof. S. Balakumar, Director, National Centre for Nanoscience and Nanotechnology, University of Madras, Chennai.
28. Dr. Shamima Hussain, Scientist-D, UGC-DAE CSR Kalpakkam Node, Kokilamedu.
29. Dr. V. Gunasekaran, Assistant Professor, Department of Materials Science, Central University of Tamil Nadu, Thiruvavur.
30. Dr.rer.nat. Edward Prabu Amaladass, Scientific Officer D, LTSS/CMPD/MSG, IGCAR, Kalpakkam.
31. Dr. K. Balamurugan, Department of Physics, NIT Tiruchirappalli.
32. Prof. S. Moorthy Babu, Director, Centre for Nano Science and Technology, Anna

- University, Chennai.
33. Dr.M.S. Nagarajan, Professor and Head (former) Department of English, Madras University, Chennai.
  34. Dr.Revathy, Professor and Head, Department of English,B.S.Abdur Rahman Crescent University,Chennai.
  35. Dr.Rajinder Singh Ahluwalia,Professor of English,Guru Nanak Khalsa College,Yamuna Nagar, Haryana.
  36. Hemachandran Karah, Department of Humanitiars and Social Sciences, IIT Madras.
  37. Prof.Elango, Head, Department of English (Rtd), Anna University, Chennai.
  38. Mr.Ganesh, British Council, Chennai
  39. Dr.Jayalakshmi Jeyaraman, British Council,Chennai

## 25. Seminars/ Conferences/Workshops organized & the source of funding

### Seminars/Workshops Organised

Sl. No.	National / International	workshop/seminar theme	Date(s)	Funded by
1	National	eXLog2k17	Feb. 25, 2017	SSNCE
2	National	MATH and MATLAB workshop	Feb 10, 2017	SSNCE
3	National	SSN Cube Open	Aug.5-6,2016	SSN CE
4	International	eXLog2k15	Aug.27,2015	SSN CE
5	National	23 <sup>rd</sup> Maths Training & Talent Search. (Main Camp)	May 18-June13,2015	NBHM
6	National	National W/S on Computational Fluid Dynamics	2015	NBHM
7	National	SSN Science Day Celebrations	2015	TNSCST
8	National	Natl. Sem. On FEM	September 24- 26, 2015	SSN Trust
9	National	W/S on Adv. In Applied Engg. Maths.	4,5 Sept 2015	SSN Trust
10	National	Recent Developments in Med. Image Process	30,31 Oct 14	ICMR
11	National	FDP Discrete Maths.	16-23 June 2014	Anna University
12	National	Pedagogical Training for Mathematics Teachers	20 Nov -4 Dec, 2013	NBHM
13	National	Natl. sem. On Algebraic Graph Theory	July 5-6,2013	NBHM
14	National	W/S on “Research Methodology and latex”	April 19-20, 2013	SSN Trust
15	National	W/S on “Mathl. Approach to Physical Sciences”,	Feb.14-15, 2013	SSN Trust
16	National	Adv. Training camp in Mathematics	Dec 5-12, 2012	NBHM
17	National	Refresher “Trg. Prog. PG Teachers”,	2012	SCERT, Tamilnadu
18	National	VI- CRD Program (CRD-	11/5/2017-	RJSF ( an

		2017)	10/6/2017	NGO)
19	National	One day seminar on advanced materials and supramolecular chemistry	21 <sup>st</sup> Jan 2017	SSN Trust
20	National	V- CRD Program (CRD-2015)	18May- 4 June, 2016	RJSF ( an NGO)
21	National	IV- CRD Program (CRD-2015)	11-27 May 2015	RJSF ( an NGO)
22	National	Sem. On Nano Materials for green processes	26 <sup>th</sup> March 2015	SSN Trust
23	National	Recent Trends in Analytical Techniques	14,15 Feb 2014	SSN Trust
24	National	Realms of Electro Chemistry	2,3 Mar2013	SSN Trust
25	National	Two Day Workshop on Advanced Functional Materials	Feb 3-4, 2017	SSN Trust
26	National	Workshop on Advances in radiation monitoring and Environmental technology	March 27-28, 2017	SSN Trust
27	National	SERC School – Single Cryst. Of Functl Matls & their Applications	September 2-22, 2015	Department of Science and Technology
28	National	Modeling of Photonic Devices	March 30-31, 2015	SSN Trust
29	National	Underwater Acoustics	25 Jan 2015	SSN Trust
30	National	W/S on Radiological aspects of FLY ASH and Envl. Radio activity.	18-20, Sep. 2014	DST, BARC & AERB
31	National	W/S on Material Characterization techniques	January 3 – 4, 2014	SSN Trust
32	International	Advances in Photonics & Optical Materials	Feb 9 -12, 2012	SSN Trust
33	National	Staff Development – An awareness raising’	2012	SSN Trust
34	National	‘Office Communication’ Module 1	2012	SSN Trust
35	National	Writing Articles for International Journals’	2012	SSN Trust
36	National	‘Office Communication’ Module 2	2012	SSN Trust
37	National	‘Improving Writing Skills’	2012	SSN Trust
38	National	‘ Errors in English Language Classes’	2014	SSN Trust
39	National	‘Teaching Reading Skills’	2015	SSN Trust
40	National	FDP on ‘Modern Meth. Of Teaching English’	2015	SSN Trust
41	National	Teaching Writing Skills in Secondary School Classrooms	22 March 2016	SSN Trust

**Details of Conferences Organized:**

Sl. No.	National/International	Conference	Date(s)	Funded by
1	International	International Conf. on Th. Comp. Sc. And Discrete Mathematics	December 08-10, 2014	DST, NBHM
2	National	Third National Conference on Reliability and Safety Engineering	December 01-03, 2016	AERB, BRNS, BHAVINI
3	National	Adv. Functl. Matls.	28 <sup>th</sup> and 29 <sup>th</sup> Dec 2015	SSN Trust
4	National	Teaching English Language to the 21 <sup>st</sup> Century Learners	19 <sup>th</sup> and 20 <sup>th</sup> February 2016	SSN Trust
5	National	National conference on Advanced Materials	21 <sup>st</sup> -22 <sup>nd</sup> March, 2016	SSN Trust
6	National	“Teaching English Language to the 21 <sup>st</sup> Century Learners”	19 <sup>th</sup> and 20 <sup>th</sup> of February, 2016.	SSN Trust
7	National	‘Does INPUT equal INTAKE while teaching English as a Second Language?’	7 <sup>th</sup> and 8 <sup>th</sup> April, 2017	SSN Trust

26. **Student profile programme/course wise: (I Year B.E./B.Tech.):**
27. **Diversity of Students: I year B.E./B. Tech.:**
28. **How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?**  
Not applicable
29. **Student progression:** Not Applicable
30. **Details of Infrastructural facilities**
- a) **Internet facilities for Staff & Students:** All staff rooms and class rooms are equipped with internet facilities with a band width of 330 Mbps . The entire campus is WiFi enabled.
- b) **Class rooms with ICT facility:** All 13 class rooms are equipped with ICT facility
- c) **Laboratories:**

Laboratory description	Space, number of students	Type of experiments	Quality of instruments	Cost of Equipment In Lacs of Rs.
Physics	475.2 sq.m 70 per batch	Optical, Heat & Properties of Matter	Good	8.5
Chemistry laboratory	475.2 sq.m 70 per batch	Quantitative analysis involving Volumetric and Instrumental methods of Analysis	Good	4.62
Language Laboratory	153 Sq.m. 76 per batch	15 modules	Good	28
Research labs for Chemistry & Physics	345 sq.m		Good	60

**31. Number of students receiving financial assistance from college, university, government or other agencies: I Year B.E./B. Tech.**

Year	From College	From Government
2015-16	111	370
2014-15	113	377
2013-14	88	365
2012-13	96	206
2011-12	118	118

**32. Details on student enrichment programmes (special lectures/workshops/seminar) with external experts:**

1. Prof. Shireesh Choudhary, Dept. of H&S, IIT M delivered a guest lecture on 'What is Good English' on 13 Feb 2012.
2. Ms. Angella French, Director, Cambridge English, India and SE Asia gave a lecture on, 'English Proficiency, its need in the Indian context, and ways and means to acquiring these skills', 21st July, 2015
3. Ms. Kiyomi Tanaka, a Japanese Teacher delivered a lecture on 'Learning of Japanese Language and Opportunities for Indian Students in India and Japan', Sept.2014
4. The department organised a lecture on the topic, 'Learning of Japanese Language and Opportunities for Indian Students in India and Japan' by Ms. Kiyomi Tanaka, a Japanese Teacher, in the Mini Auditorium at 2 pm on 12 September 2014. Ms. Kazumi and Ms. Miyuki, two students on exchange with Indian Universities also were present on the occasion and interacted with our student.
5. Ms Padmavathi Chandramouli (Information and Office Manager), DAAD, September 2014
6. Information Centre, German Academic Exchange Service, Chennai delivered a lecture on the topic, 'Opportunities for interns, scholarships and admissions for post graduate and doctoral programmes in Germany', 2015

7. 'Galvanize Test Prep' conducted a workshop for third year BE/BTech students on preparing for GRE. A sample GRE-like preparatory test was also administered to let students understand their overall standing among others who take such a test. from 26<sup>th</sup> August to 1<sup>st</sup> of September, 2016
8. Prof. Jacob Tharu, Former Head, Department of Testing and Evaluation, The EFL-U, Hyderabad is co-ordinating with the English department to fine-tune the evaluation practices used to assess select students' abilities and understand how best the bridge course for the students on the rural scholarship can be made effective, 26 Aug-1 Sept. 2016
9. Department of English organized a special talk by Rev. Fr. Peter Francis in the Orientation Programme for the first year students on 22 July 2016.
10. DAAD Information Center Chennai German Academic Exchange Ms Padmavathi Chandramouli (Information and Office Manager) Service on Thursday, 23<sup>rd</sup> July, 10 30 am to 11 30 am at the Mini Auditorium. 2015

**The department conducts and co-ordinates annually, the following Student Enrichment Programs:**

1. SSN Creative Writing Competition
2. SSN Best Speaker Contest
3. Lights Out Please, SSN's theatre group.
4. English Literary Club
5. Foreign Languages Classes in French, Spanish, German & Japanese.
6. Training for Students under Govt. Rural School Toppers' Scholarship scheme.
7. Entrepreneurship Development Cell.

**33. Teaching methods adopted to improve student learning:**

**E-learning**

In an effort to motivate and enhance the learning experience of its students, SSN Institutions employ technology enabled course delivery to augment the teaching skills of its faculty for both theory and laboratory courses.

*Pre-Class:* To motivate the students, the learning objectives as per syllabus and some notes are provided on the intranet.

*In-Class delivery:* Each class room is equipped with projecting equipment connected to laptop. In the class session, all or some of the methods ranging from traditional chalk and board, PowerPoint presentations, videos, group discussions, quizzes are used depending on the topic and interaction with the students, so that the class sessions, become essentially learner driven.

*Post Class:* Problem sheets and additional reading material are made available on intranet, which students can use to revise topics and learn at their own pace.

Apart from continuous assessments, students are assessed as per university norms thrice during a semester to, prepare them towards the final exam conducted by the University. In the Tutorial & practical classes faculty is available to clear the student's doubts while he is having hands on experience.

For lab demonstrations virtual videos are used.

For rural and vocational students special classes are conducted to improve their competence.

The students can express their grievances, suggestions and feedback in the class committee meeting. Their grievances are addressed by the class committee chairman and HOD.

#### **34. Participation in Institutional Social Responsibility (ISR) and Extension activities**

The students can associate themselves with

- National Student Service Scheme (NSS)
- Youth Red Cross Society (YRC).

to take care of the social activities.

#### **35. SWOC analysis of the department and Future plans**

##### **Strengths**

- Highly qualified and well experienced faculty with Ph.Ds from institutes of repute
- Research Guidance is offered in diverse fields of Science and Humanities
- State of the art technology-enabled infrastructure to impart quality classroom instruction and carry out meaningful research
- Potential to handle R&D Projects and consultancy. Projects have been undertaken from organizations such as DST, DRDO, CSIR, DAE-BRNS, NRB, MNRE, AERB and established Research Labs and Centres
- Competency to provide specialized training in Communication Skills for the students in English and Foreign Languages (Spanish, French, German and Japanese) leading to internationally recognized certificates and global employment.
- Quality Contribution to Institution-Building Activities such as Instincts, Invente, MUN, ELC, FOP, EDC, Vibrations etc.

##### **Weaknesses**

- Being the supporting department, UG/PG programs are not offered
- Inability to utilize the full potential (Human Resources, Labs, Equipment) as there are no programs

##### **Opportunities**

- Obtain more R&D Projects and Consultancy
- Enhancement of employability in core companies
- Offer skill and competency based certificate programs

**Challenges**

- To obtain an independent status for the departments
- To get autonomy to offer well designed courses
- To get quality candidates from other universities to pursue research

**Future Plans**

- To offer UG/ PG Programs when the institute becomes a University
- To strengthen the Industry-Institute Interaction
- To expand the existing research labs and centres



### EVALUATIVE REPORT OF THE DEPARTMENT OF MANAGEMENT STUDIES

1. Name of the department : **Department of Management Studies**
2. Year of Establishment : **2000**
3. Names of Program : **Master of Business Administration**
4. Names of Interdisciplinary courses and the departments/units involved: **NA**
5. Annual/semester/choicebasedcreditsystem: **Semester pattern only**
6. Participationofthedeptmentinthecoursesofferedbyotherdepartments:

Department	Program	Course Title	Years
Computer Science & Engg	B.E. (A&B)	MG 2452-Engineering Economics & Financial Accounting	2011-12 to 2014-15
Information Technology	B.E. (A&B)	MG 2452-Engineering Economics & Financial Accounting	2011-12 to 2013-14
Computer Science & Engg	B.E. (A&B)	MG 2452-Engineering Economics & Financial Accounting	2015-16
Master of Computer Application	MCA	MC 9215- Accounting & Financial Management	2011 – 12, 2012 – 13
Master of Computer Application	MCA	MC 7009-Human Resource Management	2012 – 13, 2015 - 16
SSN College of Engineering	PGCBA	Operations Research	2013 – 14, 2014 – 15, 2015 – 16, 2016 - 17
SSN College of Engineering	PGCBA	Statistics	2014 – 15, 2015 – 16, 2016 - 17
SSN College of Engineering	PGCBA	R	2015 – 16, 2016 - 17

7. Coursesincollaborationwithotheruniversities,industries,foreign institutions :**NIL**
8. Detailsofcourses/programsdiscontinued (ifany) withreasons:**NIL**
9. Numberof teachingposts:

Designation	Sanctioned	Filled
Professors	1	7
AssociateProfessors	3	3
Asst.Professors	12	6
Total	16	16

10. **Faculty profile** (Current)

Sl. No.	Name	Qualification	Designation	Specialization	No.of Years of Experience	No.of Ph.D. Students Guided for the last 4 years
1	B. Srinivasan	B. Tech., PGDM	Professor	Marketing & Finance	40	-
2	Srinivas Gumparthi	MBA., M.Phil., Ph.D.	Professor	Finance	29	1
3	Vijaya Mani	MSc., MBA., Ph.D.	Professor	HR Management	26	3
4	Sampath Kumar K	MBA., Ph.D.	Professor	Finance	39	-
5	Asokumar B	B.Sc., PGDM	Professor	Management	34	-
6	Hariharanath K	MBA Ph.D.	Professor	Marketing & Strategic Management	21	-
7	Natarajan R	B.Tech., PGDM	Professor	Operations	31	-
8	Vani Haridasan	B.E., MBA., Ph.D.	Asso. Prof.	Operations	16	-
9	Thiruvankadam T	B.Com., MBA., Ph.D.	Asso. Prof.	Marketing	15	-
10	Sudarsan Jayasingh	MBA.	Asst. Prof.	Marketing	19	-
11	Kavitha M	MBA., Ph.D.	Asst. Prof.	Finance	16	-
12	Girija T	B.Sc., MBA, Ph.D.	Asso. Prof.	Management	12	-
13	Amit Tyagi	B.Tech., PGDCM,	Asst. Prof.	Management	11	-
14	Vaidehi R	BE., MBA	Asst. Prof	Management	5	-
15	Srikanth M	BE., MBA	Asst. Prof	Management	8	-
16	Arun Prakash M	BE., MBA	Asst. Prof	Management	2	-

## 11. List of Senior Visiting and Adjunct Faculty (Year 2016-17)

Sl. No.	Faculty Name	Qualification
1	Jagannath Ramaswamy	B.Tech., PGDM
2	Kasthuri Rangan R	B.Sc., MBA
3	V. K. Kumar	B.Tech., PGDM
4	PL Subramanian	B.Com., ACA
5	K.Palanisami	BA.,FCA.,ACS
6	M.Bashyakar	CA
7	B. Raghuraman	B.E., PGDM (IIMB)
8	J. Raghuraman	B.E. PGDM

## 12. Percentage of lectures delivered and practical classes handled by Adjunct Faculty: 17 %

## 13. Student–Teacher Ratio (programmewise)

Sl. No.	Programme	Students	No. of Faculty#	STR
1	MBA	240	16	1:15

## 14. Number of academic support staff (technical) and administrative staff, sanctioned and filled

Sl. No.	Programme	No. of Administrative staff		No. of Technical staff	
		Sanctioned	Appointed	Sanctioned	Appointed
1	MBA	4	4	1	1

## 15. Qualifications of teaching faculty with D.Sc. /D.Litt. /Ph.D. /M. Phil. /PG.

Sl. No.	Number of Faculty with Qualification			
	D.Sc. /D. Litt.	Ph.D.	M.Phil.	P.G
1	-	8	-	8

16. Number of faculty with on going projects from a) National b) International funding agencies and grants received: **Nil**17. Departmental projects funded by DST–FIST; UGC, DBT, ICSSR, etc. and total grants received : **Nil**18. Research Centre / facility recognized by the University: **Not Applicable**

## 19. Publications:

**a) Publication per faculty**

Number of papers published in peer reviewed journals (national / International) by faculty and students:

Sl. No.	Faculty	Designation	Conf. Papers	Jl. Papers	Citation Indices #				
					Citation Index	SNJP	SJR	Impact Factor	h-index
1	Dr. Vijaya Mani	Professor	9	24	22	-	-	-	2

2	Dr. SrinivasGumparthi	Professor	9	12	6	-	-	-	1
3	Dr.B.Asokumar	Professor	8	9	-	-	-	-	-
4	Dr.K.Sampath Kumar	Professor	28	5	-	-	-	-	-
5	Dr.T.Thiruvengadam	Associate Professor	18	14	-	-	-	-	-
6	Dr.P.VaniHaridasan	Associate Professor	12	4	-	-	-	-	-
7	Dr.Kavitha.M	AP	14	10	-	-	-	-	-
8	SudarsanJayasingh	AP	8	7	-	-	-	-	-
9	Dr.Girija	AP	7	5	-	-	-	-	-
10	R.Vaidehi	AP	-	4	-	-	-	-	-
11	Amit Tyagi	AP	1	1					

# Entire career

Year	Journal Publications	Conference papers
2011 - 12	12	7
2012 - 13	12	3
2013 – 14	6	3
2014 – 15	5	3
2015 - 16	10	-
2016 - 17	12	12

**b) Chapter in Books written**

Sl. No.	Faculty	Title of the Chapter	Publisher / Organization
1	Dr.Srinivas Gumparthi	WTO, India and Emerging Areas of Trade	Excel Books, New Delhi
2	Dr.Srinivas Gumparthi	Green Productivity in Small and Medium Enterprises	Concept Publishing Company, New Delhi
3	DrKavitha Muthukumaran	Valuation of Firms	Holistic Research Perspectives - Issues & Challenges, Chennai

**d. List of Books edited:**

S.No	Faculty	Title of the Book edited	Publisher/Organization
1	Dr.K.Sampath Kumar	Indian Financial System	McGraw Hill Education, New Delhi
2	Dr.K.Sampath Kumar	Financial Accounting for Management	McGraw Hill Education, New Delhi
3	Dr.K.Sampath Kumar	Banking and Financial Services Management	Anna University, Chennai
4	Dr.Kavitha M	Principles of Management	McGraw Hill Education, New Delhi

**e. Books Published**

Sl. No.	Faculty as Author / coauthor	Title of the Book	Publisher
1	Dr.Srinivas Gumparthi	Credit Risk Management For Banks	Lambert Academic Publishing, Germany
2	Dr. Thiruvenkadam and Dr. Panchanatham	Retail Success: New Perspectives on Retailing and Store Patronage Behaviour	Lambert Academic Publishing, Germany

**20. Areas of consultancy and income generated**

Sl. No.	Faculty	Organisation	Year	Area of consultancy	Amount earned (Rs)
1	Dr.Srinivas Gumparthi & 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.SrinivasGumparthi	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/-

21 Faculty as members in a) National committees b) International Committees c) Editorial Boards:

Sl. No.	Faculty	Committee Designation	Period
1	Dr.Vijaya Mani	Editorial Board Member, 1. Intl. JI of Bus. Econ & Mgmt. 2. JI. Of Bus. & Mgmt( JBM) & 3. Reviewer: Contemporary Mgmt Reviewer	2014 till date
2	Dr.Srinivas Gumparthi	1.Editorial Board Member and Reviewer JI of Global Econ., Mgmt & Bus Research. 2. Reviewer: Global JI of Mgmt& Business 3. Reviewer:JI of Econ.andInternl.Finance 4. Reviewer: British JI of Econ Mgmt.& Trade 5. Reviewer:JI of public Admin. & Policy Res. 6. Executive Committee Member Intl. Mgmt. Res. Academy, London ,UK	2012 till date 2013-15 2013 till date
3	B.Srinivasan	Board of Studies, Anna University	2016-17

## 22. Student projects:

- All students do their 4<sup>th</sup> semester projects in outside organizations.
- Projects as a part of their course-work in Business Research Methods and Information Management

## 23. Awards/Recognitions received by faculty and students – NIL

## 24. List of eminent academicians and scientists/visitors to the department

Sl. No.	Name of the Eminent Visitors	Date
1	Mr. B.S.Raghavan, IAS (Retd),	11.05.2011
2	Mr.Raghunathan, CEO, AlleTech	26.08.2011
3	Dr. Elangovan A R, School of Business, University of Victoria,	29.08.2011
4	Mr.Chandu Nair, Founder, Scope e-Knowledge	07.09.2011
5	Mr.Balaraju Kondaveeti, CEO & Co-Founder, BodhBridge ESPL	03.11.2011
6	Dr.DavidJawahar, Professor, Bharatidasan Institute of Management	04.11.2011
7	Mr.S.Ramachandra, Littler Associates (Former VP, Amara Raja)	04.11.2011
8	Dr.N.Panchanathan, Professor, Annamalai University	29.11.2011
9	Mr.R.Uppili, Principal Research Analyst, Vistasoft India	23.03.2012
10	Mr.D.Sampath Kumar, Editor, Hindu Business Line	30.03.2012
11	Mr. Nandha Kumar, CEO of Perfint Healthcare, Chennai	27.04.2012
12	Mr. Jude Collins, Information Security Consultant, E & Y	03.05.2012
13	Mr. Shiv Shivkumar, Sr. Vice President of Nokia, Chennai	08.09.2012
14	Mr.C.Siva Kumar, CEO, Prabha Engineers	10.09.2012
15	Dr. GovindHariharan, Professor of Kennesaw State University,	25.09.2012
16	Mr. T R Santhanakrishnan, CEO, Taurus Quest, Chennai	03.10.2012
17	Ms.Rajini Reddy, Co-Founder & MD, Exemplar	05.10.2012
18	Mr. Benedict Gnaniah, Business Head, Times of India	05.10.2012
19	G. D. Sharma, Principal at Beeline HR Advisory	05.10.2012
20	PrasanthKrishnaswamy, Blogger	05.10.2012
21	RamasubramaianAlwaraswamy, Founder, Thanksya	05.10.2012
22	Mr. Joseph Zachariah, Former GM, Madura Coats & Fanner India	12.12.2012
23	Dr.RamnathChellappa, Emory University, Chennai	28.12.2012
24	Mr. D.Sampath Kumar, Editor, Hindu Business Line	02.03.2013
25	Mr. Kiruba Shankar, CEO, Business Blogging Pvt. Ltd, Chennai	09.04.2013
26	Dr. Ramana Charyulu, TAPMI, Mangalore	16.08.2013
27	Mr.VenkatAravumudhan, CEO, TransLeanEdutech	16.08.2013
28	Mr.Tom Anfusio, VP, Enterprise & Infrastructure Business Systems	19.09.2013
29	Mr. Kumar Dhuvur, CEO, Crinis Power, Chennai	30.09.2013
30	Mr. Rajasekhara Kandepu, DGM HR, L&T Realty Division	04.10.2013
31	Mr.V.Ramesh, M.D., Sanmar Engineering Services Limited	04.10.2013
32	Mr. Dennis Ranjith, Head & Senior VP, Exemplar Worldwide Ltd	04.10.2013
33	MsSudha Panchapakesan, Head – HR, Real Image Media	04.10.2013
34	Mr.Rajkumar Paranthaman, Marketing Manager, Air Asia	04.10.2013

35	Mr. ThilakIyer, Founder and Managing Partner at Defiler Consulting Services	04.10.2013
36	Mr.G.Ramprasad, Director, Enzotech Solutions Pvt Ltd	04.10.2013
37	Ms.Sudha Panchapakesan, Head – HR, Real Image Media	28.01.2014
38	Ms.LathaNambisan, Executive V.P., Servion Global	18.02.2014
39	Dr.S.D.Pathak, Yogic Research Center	21.03.2014
40	Mr. Mathisekaran, IES, Member, Forwarded Markets Commission	24.03.2014
41	Mr. Ganeshan V V, Vice President, NCDEX, Chennai	24.03.2014
42	Mr.MCR Praveen, Tata Leadership Consulting	12.05.2014
43	Mr.Chandarasekar Kupperi, Founder, Anova Corporate Services	08.08.2014
44	Mr. VenkatAravamudan, Founder & CEO, Smart Megh, Chennai	28.08.2014
45	Mr. Mohanakrishnan S, Sr. Vice President (Retd), Sundaram Clayton Pvt. Ltd., Chennai	25.09.2014
46	Mr.Bhaskar Chandran, Regional Sales Manager, HCL Tech	07.04.2015
47	Mr.ChandrasekaranChakrapani, Sr.Mgr-HR, Latent View Analytics	07.04.2015
48	Dr. AnandAgarwal, Asian Institute of Management, Chennai	10.07.2015
49	Ms. Anuranjita Kumar, MS & CHRI, CITI-South Asia, Chennai	23.07.2015
50	Mr. Glen Mason, Executive VP, Strides Consulting Inc, Chennai	24.07.2015
51	Mr. VenkatAravamuthan, CEO, Smartmegh, Chennai	05.08.2015 to 07.08.2015
52	Dr. AVG Narayanan, Dean, EBET Group of Institutions, Chennai	21.08.2015
53	Mr. Nagarajan S, DGM (Service Delivery) – IDEA Cellular	27.08.2015
54	Mr. Rajesh R, DGM (Finance) – IDEA Cellular	27.08.2015
55	Mr. Krishnan J,CEO, Unimity Solutions Pvt Ltd, Chennai	31.08.2015
56	Mr. Kumaravel C K, CEO & Co-Founder, Naturals Salon & Spa	31.08.2015
57	Mr. SreejithHrishikesh, City Head, Zoomcar, Chennai	11.09.2015
58	Dr. Manu Vora, Business Excellence and Change Management Professional	14.03.2016
59	Ms.Sowmya Ganesh,Co-founder, Relish Nutrition Pvt Ltd (A start-up)	25.03.2016
60	Mr. Pradeep, Business Consultant, CTS, Chennai	02.04.2016
61	Mr.ArunDorairaj, Co-founder of Flintbox, Chennai	08.04.2016
62	Mr. Prem T Thomas, Chief HR Manager, Blue Dart Aviation	29.08.2016
63	Mr. Mohan Kancharla, Director, TCS	09.09.2016
64	Mr. AppaRao, Idea Labs India	01.10.2016
66	Mr.Kiruba Shankar, CEO, Business Blogging	06.10.2016
67	Mr.V.Rajesh, Author & Retail Consultant	06.10.2016
68	Mr.VinayKamath, Associate Editor, Hindu Business Line	06.10.2016
69	Mr. Asir Raja Selvan,Head-Finance, hCue	08.02.2017
70	Mr.B. Viswanathan, Consultant, Chennai	08.02.2017
71	Dr. Mohan Raj MD, DNB,Tharu Clinic, Chennai	21.03.2017
72	Mr. ManojRaghavan,EVP, Tata Elixi	10.04.2017

25. Seminars/Conferences/Workshops organized & the source of funding a)  
National – FDP

Funding Agency	Title	Date & Year	Coordinators
SSN Trust	Brand Management	3 <sup>rd</sup> to 5 <sup>th</sup> Feb 2011	Dr. Mahesh Doraiswamy
AICTE	Social Media Marketing	19 <sup>th</sup> to 21 <sup>st</sup> Sept 2013	Dr. Geetha.M, Associate Professor
SSN Trust	Trends in Supply Chain Management	21 <sup>st</sup> & 22 <sup>nd</sup> March 2013	Prof.S.Gopalakrishnan, Professor & Dr. P.Vani Haridaasan, Asst.Professor

26. Student profile program/course wise:

Name of the Course/programme (refer question no. 4)	Year	Application n. Recd.	Selected	Enrolled		Selection percentage
				*M	*F	
MBA	2016-17	371	118	44	74	NA since students join through GQ also
MBA	2015-16	324	116	47	69	
MBA	2014 -15	611	111	50	61	
MBA	2013 – 14	558	119	59	60	
MBA	2012 – 13	599	108	50	58	
MBA	2011 – 12	481	111	55	56	
MBA	2010 – 11	517	86	47	39	

\*M=Male \*F=Female

27. Diversity of Students

Name of the Course	Year	% of students from the same state	% of students from other states	% of students from abroad
MBA	2016-17	94.6	5.4	0
	2015-16	91.3	8.7	0
	2014-15	94.59	5.41	0
	2013-14	96.2	3.8	0
	2012-13	96.2	3.2	0
	2011-12	97.2	2.4	0

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?: Nil

29. Student progression

	2011-13	2012-14	2013-15	2014-16
	Final	Final	Final	Final
# Students Appeared	101	108	117	106



# Students All Pass	97	99	109	105
Pass Percentage	96	92	93	99
Distinction / First class	82	87	84	98
Average CGPA	6.82	7.26	6.88	7.4
No of University ranks	7	1	4	3

Sl. No.	Student Progression	Expressed as number of students					
		2016-17	2015-16	2014-15	2013-14	2012-13	2011-12
1	UG to PG	NA					
2	PG to M.Phil.	NIL					
3	PG to Ph.D.	NIL					
	<b>Placement</b>						
1	Through Campus	<b>95*</b>	<b>80</b>	84	66	69	60
2	Off Campus	-	-	-	-	-	-

\* In progress

### 30. Details of Infrastructure

#### (a) Library

Year	Books		Journals	
	Added	Cumulative	National	International
2016-17	104	10311	24	13
2015-16	435	10207	23	14
2014-15	267	9772	25	10
2013-14	511	9505	24	23
2012-13	788	8994	24	23
2011-12	635	8206	25	23

b) Internet facilities for Staff & Students: Entire campus has Wi-Fi connectivity.  
Band width 310 Mbps

c) Classrooms with ICT facility:

- All 5 Class rooms, Seminar Room & Conference Hall are equipped with LCD, Laptop, PA System and Wi-Fi Connectivity

d) Laboratories: List the labs, area & total cost of equipment

Laboratory	Area in Sq.m/ Number of students (60 per batch)	Investment Rs. in Lakhs
Lab -1	64.5	15.44

Lab -2	108.12	13.33
<b>Total</b>	<b>172.62</b>	<b>28.77</b>

**31. Number of students receiving financial assistance from college, university, Government or other agencies**

Sl. No.	Number of students provided with financial assistance in Years				
	2015-16	2014-15	2013-14	2012-13	2011-12
By SSN Trust	12	13	13	13	12
Government	13	15	11	10	3

**32. Details on student enrichment programmes (special lectures / workshops / Seminar) with external experts**

Sl. No.	Year	Number of Special Lectures/Workshops/Seminars
01	2011-12	7
02	2012-13	15
03	2013-14	9
04	2014-15	22
05	2015-16	28
06	2016-17	25

S.No	Resource Person	Topic	Date
<b>2015-16</b>			
1	Dr. Anand Agarwal, Asian Institute of Management	Management Pedagogy for effective delivery	10.07.2015
2	Mr. Venkat Aravamuthan, CEO, Smartmeh	Business Processes	05.08.2015 & 07.08.2015
3	Dr. AVG Narayanan Dean, EBET Group of Institutions	Humor in advertising	21.08.2015
4	Mr. Nagarajan S DGM (Service Delivery) - IDEA Cellular	Service Delivery Quality	27.08.2015
5	Mr. Rajesh R DGM (Finance) - IDEA Cellular	Strategic Finance in service industry	27.08.2015
6	Mr. Krishnan J, CEO, Unimity Solutions Pvt Ltd, Chennai	Expectations from MBAs	31.08.2015
7	Mr. S.Dinesh, HCL	Getting the best out of a MBA program	31.08.2015
8	Mr. S.Anand, Scope International		
11	Mr. Ashok Kumar, TCS		
12	Ms. Maheswari, TCS		
13	Ms. Mymoonshifaya, Nestle	Leadership Excellence	11.09.2015
14	Dr. Manu Vora Business Excellence and Change Management Professional		

15	SreejithHrishikesh City Head , Zoomcar	Logistics and Business Models	11.09.2015
16	C.K.Kumaravel, CEO & Co- Founder, Naturals Salon & Spa	General Management	11.09.2015
17	Dr. Manu Vora Business Excellence and Change Management Professional	Effective Teamwork	09.10.2015
18	Dr. Manu Vora Business Excellence and Change Management Professional	Effective Team Management	13.11.2016
19	Dr. Manu Vora Business Excellence and Change Management Professional	Effective Decision Making	12.02.2016
20	Dr. Manu Vora Business Excellence and Change Management Professional	Effective Project Management	01.03.2016
21	Dr. Manu Vora Business Excellence and Change Management Professional	TQM – Balridge perspective	14.03.2016
22	Ms.Sowmya Ganesh Co-founder - Relish Nutrition Pvt Ltd	Starting a business	25.03.2016
23	Mr. Subramanian V Director of Autoriders International	Presentation Skills	19.03.2016
24	Mr. Sriram K Author and NLP Practitioner		19.03.2016
25	Mr.Arunprasad Co – founder, Flintbox	Entrepreneurship	08.04.2016
26	Mr. Pradeep S Business Consultant, CTS	Leadership	02.04.2016
27	S.Rajendran, ACS Consultant	Union Budget 2016-17	15.04.2016
28	Venkatraman Krishnamurthy WeFaculty	Industry Deep-dive	23.04.2016 & 24.04.2016
<b>2016-17</b>			
1	Mr. Ravi Shankar Alumnus– TCS& Ms.Ponmadhuri E Alumnus - TCS	Workshop on facing interviews	20.08.2016
2	Mr. Prem T Thomas, Chief HR Manager, Blue Dart Aviation	Expectations from MBAs	29.08.2016
3	Dinesh S, HP	Getting the best out of a MBA program	29.08.2016
4	B.Ravishankar, TCS		
5	Maria Selvam, TI Cycles		
6	MymoonShifaya, Nestle		
7	Sollinselvam M.S, Axis Bank		

8	Sindhu Ramachandran	Lead yourself to lead others	30.08.2016
9	Mr.Benito Muthu Alumnus, HTC Global	Workshop on facing interviews	03.09.2016
10	Mr. Mohan Kancharla, Director, TCS	Consulting – A Practitioner’s Perspective	09.09.2016
11	Ms. C.V.Rajalakshmi Alumnus – Intellect Design Arena	Workshop on facing interviews	14.09.2016
12	Ms. S. Subhashini Alumnus - Wipro	Workshop on facing interviews	24.09.2016
13	MMA Students Convention	Perspectives in Leadership	29.09.2016 & 30.09.2016
14	Mr. AppaRao, Idea Labs India	Workshop on facing interviews	01.10.2016
15	Mr.Kiruba Shankar, CEO, Business Blogging	Panel Discussion: Future of e- Commerce in India	6.10.2016
16	Mr.V.Rajesh, Author & Retail Consultant		
17	Mr.VinayKamath, Associate Editor, Hindu Business Line		
18	Parivarthana Consulting	CareerCarve workshop	25.10.2016 & 26.10.2016
19	Dr.N.Annamalai, Creativity Sphere	Creativity	04.02.2017
20	Mr.Asir Raja Selvan Head – Finance, hCue & Mr.B.Viswanathan, ex-VP, HCL	Union Budget 2017-18	08.02.2017
21	Parivarthana Consulting	Workshop on career guidance	18.02.2017
22	Mr.B. Viswanathan, ex-VP, HCL	Role of Finance in business	22.02.2017
23	ISKON	Bhagavad Gita	05.04.2017
24	Dr. Mohan Raj MD, DNB Director, of Tharu Clinic	Emotional Intelligence	21 .03.2017 & 22.03.2017
25	Mr. ManojRaghavan, Exec VP, Tata Elxi Ltd	Managing across cultures	10.04.2017

### 33. Teaching methods adopted to improve student learning

- Classroom Lectures
- Case Methodology
- Video Lectures
- Role Plays
- Presentations & Constructive discussions
- Group Discussion
- Simulation Exercises

**34. Participation in Institutional Social Responsibility (ISR) and Extension activities**

- Annual Blood Donation Camps in Association with Rotract Students Chapter & Madras Medical Mission
- Annual Medical camps
- Visit to orphanages
- Distribution of school kits
- Communication training in schools
- Participation in Pulse Polio programs
- Donation of clothes to an orphanage
- “Greener campus” initiatives

**35. SWOC analysis of the department and Future plans****Strengths:**

- A reputed Management Institution among aspiring students.
- Well endowed with the necessary infrastructure
- Located near a metro city to facilitate interaction with industry
- A mix of faculty experienced in academics and industry
- Good quality placements in well-known companies at salary levels that offer a good ROI to students

**Weaknesses:**

- Inflexibility in curriculum and assessments due to affiliated status
- More opportunities for consultancy projects need to be explored

**Opportunities:**

- To increase engagement with industry by way of guest lectures
- Increase outreach to industry through training programs and consultancy
- To emerge as one among the leading management institutions

**Challenges:**

- To overcome constraints imposed by system and tap opportunities
- To improve the placements
- To bring & attract better pan-India talent
- To improve industry interaction / consultancy and knowledge creation

**Future Plans**

- To seek autonomy status under Anna University
- To achieve higher level placements
- To introduce industry specific MBA programs