

Department of Electrical and Electronics Engineering

Half Yearly Research Activity Report (July 2016- December 2016)

1. Research activities of the faculty members:

Number of faculty in the Department : 35

Number of faculty with Ph. D qualification : 07

Number of faculty pursuing Ph. D : 20

A). Papers published by the faculty members in National and International Journals:

National Journal:

International Journal:

1. Keerthana.K, **Suganthi.K** ‘DESIGN OF A SINGLE SWITCH DC-DC CONVERTER FOR PV PUMPING SYSTEM’ Pak. Journal. Biotechnol. Vol. 13 (special issue on innovations in information embedded and communication systems) Pp. 370 - .74 (2016).
2. **M. Shankar**, R.P. KumudiniDevi ‘A Novel generic Battery Modeling Approach for Power System Simulation Applications’ Journal of Advances in chemistry ,Volume 12 Number 16.pp.4884 - 4890.
3. **Deepak Arumugam**, Premalatha Logamani, **Santha Karuppiah** ‘FUZZY based Cuk Controlled Closed loop Excitation System for a Synchronous Generator with Improved Dynamic Response’ Asian Journal of Research in Social Sciences and Humanities Vol. 6, No. 9, September 2016, pp. 81 - 99.

B).Papers (presented/published) by faculty members in National & International conferences/symposiums/workshops:

National Conference:

International Conference:

- 1.**S. Angala Vaishnavi**, R. Abdul Kareem ‘Study and Handling Of Ground Control Operations in Aircraft Landing System’ The second International Conference on Emerging Trends in Engineering Research (ICETER’ 16), Oct. 20-21, 2016, Vels University, Chennai.

Technical Article Publication

C). National and International Conferences/ symposiums/ workshops/FDP/Seminar attended by the Faculty members:

S. No	Name of the Faculty Member	Conference, FDP, Seminar and Workshop details	Place	Date	
				From	To
1	Dr.KR.Santha	FDP on Expectations and Future of IT Industry	Cognizant , MEPZ, Chennai	22/10/2016	22/10/2016
2	Dr.M.Gopalakrishnan				
3	Dr.N.K.Mohanty				
4	Dr.R.Karthikeyan				
5	Dr.K Sundararaman				
6	Dr.Sudhakar K Bharatan	FDP on Expectations and Future of IT Industry	Cognizant , MEPZ, Chennai	22/10/2016	22/10/2016
7	C.Venkatesan	AICTE QIP Sponsored STC on ICT Solutions for Issues and Challenges in Smart Grid Technology	Dept. of EEE, Pondicherry Engineering College Puducherry	28/11/2016	02/12/2016
8	T.Annamalai	STC on Power Electronics System & Control 2016	Dept. of EEE, Pondicherry Engineering College Puducherry	19/12/2016	23/11/2016
9	S.Arulmozhi	STC on Power Electronics System & Control	Dept. of EEE, Pondicherry Engineering College Puducherry	19/12/2016	23/11/2016
10	D.Amudhavalli				
11	S.Kumaravel				
12	N.Shanmugavadivu				

1 3	K.Suganthi				
14	S.Sudarsanam	Seven Days FDP on EE6402-Transmission and Distribution	Dept. of EEE Panimalar Institute of Technology , ANNA UNIVERSITY	21/11/16	28/11/16
1 5	S.Lavanya				
1 6	M.Ranjith Kumar	Seven Days FDP on EE6402-Transmission and Distribution	Dept. of EEE Panimalar Institute of Technology , ANNA UNIVERSITY	21/11/16	28/11/16
1 7	D.S.Purushothaman	FDP on EE6002 Embedded systems National workshop on Labview applications in Electrical Engineers	Dept. of EEE, SSN college Dept. of EEE, Prathyusha Engg. college	12.12.2016 11.11.16	19.12.2016 12.11.16
1 8	I.Venkatraman	Seven Days FDP on EE6402-Transmission and Distribution	Dept. of EEE Panimalar Institute of Technology , ANNA UNIVERSITY	21/11/16	28/11/16
1 9	SV. Sreeraj	Training in PLC and SCADA	Indo Frontier Tech LLP ,Tambaram	5/12/2016	10/12/2016

20	V.Mohanraj				
21	A Deepak	FDP on EE6402- Transmission and Distribution	Panimalar Institute of Tech, poonamalle	21.11.16	28.11.16
		Finite Element Analysis of Electrical Machines	SVCE,Sriperum pudur	09/09/16	10/09/16
22	S S Sethuraman				
23	M Sasikala				
24	S.Sinthamani				
25	K.S.Pavithra				
26	S. Anitha				
27	M.Sankar	Cloud Computing	LIVEWIRE	17/10/2016	
28	G.Vinoth Kumar	Cloud Computing	LIVEWIRE	17/10/2016	
29	C.Kamal	Finite Element Analysis of Electrical Machines	SVCE,Sriperum pudur	9/9/2016	10/9/2016
30	S.Thamizmani				
31	M.Rajalakshmi	QIP STC on Pulse width modulation Techniques for VS	IISc Bengaluru	21/11/16	25/11/16
3	Dr.S.G.Bharathidasa	FDP on EE6603 Power	Dept of EEE	23/11/2016	29/11/2016

2	n	system operation & control	College of Engineering, Guindy.		
3 3	Tamizhselvan Annamalai				
3 4	A. Sureshkumar	FDP on EE6402-Transmission and Distribution Short term course on Basic Electric circuit Short term course on Discrete time signal processing	Panimalar Institute of Tech, poonamalle NPTEL NPTEL	21/11/2016 July 2016	28/11/2016 Sep 2016
3 5	S.Angala Vaishnavi	International Conference on Emerging Trends in Engineering Research Short term course on Mechanics of Nano electronic packaging	Vels University IIT -Chennai	20/10/2016 5/12/2016	21/10/2016 9/12/2016

2) Departmental research activities:

A) Symposium, Conferences, Workshop and Guest lecture Conducted:

S l N o .	Name of the Event	Topic	Period	Funding Agency	N / I	Convener and Faculty In charge(Expert)
1	Workshop	Finite Element Analysis of Electrical Machines	9/9/2016 to 10/9/2016	SVCE	N	Dr.KR.Santha & A.Deepak ,N.Shaunmugavadivu
2	<u>Workshop</u>	<u>State Feedback controllers for Power system & Power</u>	<u>Sep 30th and October 1, 2016</u>	<u>SVCE</u>	<u>N</u>	<u>Dr KR.Santha</u> <u>Dr S.G.BharathiDasan</u> <u>Mr S.Kumaravel</u> <u>Mrs.S.Arulmozhi</u>

		<u>Electronics Applications</u>				
3						

B) Guest lecture delivered:

Dr.S.G.Bharathidasan

-Resource Person in FDP on Transmission & Distribution at DMI college of Engineering, Chennai on 23/11/2016

-Resource Person in FDP on EE6603 Power system operation & control at Dept of EEE College of Engineering, Guindy from Nov 28 to 29,2016.

R.Karthikeyan

Acted as a resource person in the two day workshop on “Finite Element Analysis of Electrical Machines “conducted by EEE department ,SVCE on 9/9/2016

Dr. N K Mohanty

2. Delivered guest lecture on control system in MNM Jain Engineering college during the month of October-2016

C) Completed funded projects in the Department:

D) Projects submitted to Funding Agencies by the Department:

Sl.No	Name of the Project (Applied month & Year)	Funding Agency	Period & Amount applied (Rs in Lakhs)	Coordinators
1	PMSM based Electric vehicle with state feedback controller December 30, 2016	Science and Engineering Research Board, New Delhi.	17.06 3 years	Dr S.G.BharathiDasan Dr K.Sundararaman
2	Electric Vehicle Dynamic Performance improvement using State Feedback Controller December 25, 2016.	The Institution of Engineers (India) R&D Grant-in-aid Scheme	0.82 9 months	Dr S.G.BharathiDasan

3	A bi-polar Multi-Output Converter with buck, boost and Inverted outputs	DST-SERB	3 years, 14.6 lakhs	Dr.K.Sundararaman Ms.K.Suganthi
4	Modernisation of Control systems Lab	AICTE - MODROBS	2 years, 20 lakhs	Dr.K.Sundararaman Ms.D.Amudhavalli
5	Modernisation of Electrical Machines Lab	CTS	1 year, 7 lakhs	Dr.K.Sundararaman Mr.D.S.Purushottaman

E) Research Centre status of the department: Nodal Research centre of Anna University- Chennai

Number of Ph.D. Scholars associated with EEE Nodal Research Centre of Anna University in part time mode is 25 and in Full Time mode is 1 .

1. Number of Approved Mentors -7

2. Ph.D. Mentors

Sl No.	Name of the Mentor	Designation	Area of Expertise	Number of Candidates	
				Internal	External
1	Dr.KR.Santha	Professor and Head, EEE, SVCE	Digital signal Processing and VLSI design	9	1
2	Dr.M.Gopalakrishnan	Dean(Alternative Energies) Professor, EEE, SVCE	Power systems and High Voltage Engineerings	1	1
3	Dr.Nalinkant Mohanty	Professor, EEE, SVCE	Power Electronics	3	5
4	Dr.Sudhakar K Bharathan	Professor, EEE, SVCE	Nano technology and Semiconductors	5	
5	Dr.K..Sundararaman	Associate Professor, EEE, SVCE	Power Electronics Control systems	1	
6	Dr.R.Karthikeyan	Associate Professor, EEE, SVCE	Finite Element Analysis Special Electrical Machines		
7	Dr.S.G.Bharathidasan	Associate	Power systems		

		Professor, EEE, SVCE	Smart grid Renewable Energy systems		
Sl No.	Name of the Research Scholar and Mobile No. and E-mail ID	Month & Year of Registration	Name of the Supervisor and Mobile No. and E-mail ID	Research Centre	
1	Mr. C.Venkatesan, 9840037637,cvenkat@svce.ac.in	Jul-13	Dr.M.Gopalakrishnan Professor, EEE,SVCE, 9840791496,gopala@svce.ac.in	Nodal Research Centre- EEE- SVCE	
F) Details of EEE Faculty Pursuing PhD Registered with Anna University in Part-Time (PT) Mode					
	9566270056,sethuram@svce.ac.in	Jul-12	Dr.KR.Santha Professor, EEE,SVCE, 9444742059.santha@svce.ac.in,hodee@svce.ac.in	Research Centre- EEE- SVCE	
3	Mr.T Annamalai, 9944779572,annamalai@svce.ac.in	Jan-12	Dr. K. Udhaya Kumar,Associate Professor, Faculty of Electrical Engineering-COE- Anna University, 9444222262, k_udhayakumar@annauniv.edu	Faculty of Electrical Engineering- COE- Anna University	
4	Ms.S Arulmozhi, 9865861067,arulmozhi@svce.ac.in	July 2014	Dr.KR.Santha Professor, EEE,SVCE, 9444742059.santha@svce.ac.in,hodee@svce.ac.in	Nodal Research Centre- EEE- SVCE	
5	Ms.D.Amudhavalli, 9789856567,amudhavalli@svce.ac.in	Jan- 2015	Dr.N.K.Mohanty Professor, EEE, SVCE,9444236386,nkmohanty@svce.ac.in	Nodal Research Centre- EEE- SVCE	
6	Mr.S. Kumaravel, 9940695670,kumaravel@svce.ac.in	July201 1	Dr. G. Baskar, Principal, Bharadhasan Engineering College,Natramballi,944343 0877,gbaskar67@gmail.com Dr.N.K.Mohanty (Joint	Nodal Research Centre- EEE- SVCE	

			Supervisor) Professor, EEE, SVCE,9444236386,nkmohanty@svce.ac.in	
7	Ms.M. Sasikala, 9677016031,msasikala@svce.ac.in	Jul-15	Dr. K. B. Sudhakar Associate Professor, EEE, SVCE,9487702103,sudhakar@svce.ac.in	Nodal Research Centre- EEE- SVCE
8	Ms.N Shanmugavadivu,9789452512,vadivu@svce.ac.in	Jan-15	Dr.KR.Santha Professor, EEE,SVCE, 9444742059.santha@svce.ac.in,hodee@svce.ac.in	Nodal Research Centre- EEE- SVCE
9	Mr. Tamizhselvan Annamalai, 9500717990,tamizh@svce.ac.in	Jan-11	Dr.V.Rajini Professor Dept. of EE SSN college of Engg,9940684159,rajiniv@ssn.edu.in	Nodal Research Centre- EEE-SSN College of Engineering
10	Mr.S Sudharsanam, 9698790808,sudharsanam@svce.ac.in	Jul-2015	Dr. K. B. Sudhakar Associate Professor, EEE, SVCE,9487702103,sudhakar@svce.ac.in	Nodal Research Centre- EEE- SVCE
11	Mr.D S Purushothaman, 7871422330 ,purush@svce.ac.in	January - 2015	Dr.KR.Santha Professor, EEE,SVCE, 9444742059.santha@svce.ac.in,hodee@svce.ac.in	Nodal Research Centre- EEE- SVCE
12	Mr.A. Deepak, 9790567078,adeepak@svce.ac.in	Jul-11	Dr.L.Premalatha ,Professor School of Electrical Engineering, VIT University, Vandalur-Kelambakkam Road, Chennai-600 127 +91 44 3993 1555 Intercom No :1550 premaprak@yahoo.com Dr.KR.Santha (Joint Supervisor),Professor, EEE,SVCE, 9444742059.santha@svce.ac	Nodal Research Centre- EEE- SVCE

			.in,hodee@svce.ac.in	
1 3	Mr.M.Sankar, 9500837386,msankar@svce. ac.in	June 2010	Dr.R.P.Kumudini Devi Professor, College of Engineering AU, Guindy, 9840002331,kumudini@ann auniv.edu	Faculty of Electrical Engineeri ng-COE- Anna University
1 4	Ms.S.Sinthamani,996208864 0, sinthamani@svce.ac.in	Jan-16	Dr. K. B. Sudhakar Associate Professor, EEE, SVCE,9487702103,sudhakar @svce.ac.in	Nodal Research Centre- EEE- SVCE
1 5	Ms.S. Anitha,9629713099, sanitha@svce.ac.in	Jan-16	Dr. K. B. Sudhakar Associate Professor, EEE, SVCE,9487702103,sudhakar @svce.ac.in	Nodal Research Centre- EEE- SVCE
1 6	Mr.M.Ranjith Kumar,9842416145 ,mranjith@svce.ac.in	Jan-16	Dr. K. B. Sudhakar Associate Professor, EEE, SVCE,9487702103,sudhakar @svce.ac.in	Nodal Research Centre- EEE- SVCE
1 7	Mr. I. Venkatraman.9894318463,v enkatraman@svce.ac.in	Jun 2016	Dr.N.K.Mohanty Professor, EEE, SVCE,9444236386,nkmoha nty@svce.ac.in	Nodal Research Centre- EEE- SVCE
1 8	Ms.K.Suganthi,9445182356, suganthi@svce.ac.in	Jan 2017	Dr.K.Sundararaman,Asso.pr ofessor,EEE,SVCE,sundarar amank@svce.ac.in,9487592 24	Nodal Research Centre- EEE- SVCE
1 9	Mr.C.Kamal,9842351025,ka malc@svce.ac.in	Jan 2015	Dr.T.Thyagarajan,Professor, IE,MIT campus,Anna University,9444104850,thya gu_vel@yahoo.co.in	Faculty of Electrical Engineeri ng- MIT campus, Anna University
2 0	Ms.M.Rajalakshmi, 9791591671,rajalakshmim@ svce.ac.in	Jan 2016	Dr.S.Chandramohan, Professor, Anna University, CEG Campus, Guindy. 9884184221,c_dramo@anna univ.edu	Faculty of Electrical Engineeri ng- Anna University , CEG,

				Guindy
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Student Research Activities:

1. The Details of Approved Mentors for Post Graduate Course M.E – Power Electronics and Drives is furnished in the following Table

Sl. no	Name of the Faculty	Areas of Research / Field of Interest
1	Dr. K R Santha	Digital Signal Processing, VLSI, Systems and Control, Asynchronous circuits, Parallel Processing, Power Electronics applications using DSP
2	Dr. M Gopalakrishnan	Electrical Machines. Electrical Circuits. High Voltage Engineering. Partial Discharge in H.V. Apparatus. Laboratory experiments concerned with above subjects.
3	Dr.N.K.Mohanty	Power Electronics & Drives, Microcontroller based converters and inverters, PV cell modeling.
4	Dr. K Sundara Raman	Power Electronics Electrical Machines Embedded System System Theory
5	Dr. R Karthikeyan	Finite Element Analysis Special Electrical Machines
6	Dr. Sudhakar K Bharatan	Semiconductor Materials and Devices; Compound Semiconductor; Nanotechnology; Physical Electronics; and VLSI
7	Dr. S G Bharathi Dasan	Design & Simulation of Conventional and Intelligent Controllers, Electrical Machines Design & Analysis, Flexible AC transmission systems, Power Electronics in Power System and Smart Grid.
8	Mr. C Venkatesan	Power Systems, Integration of Renewable Energy Resources into the Grid, Smart Grid.

9	Mr. S S. Sethuraman	Power electronics based DC to DC boost converters , Digital Signal Processing
10	Mr. T Annamalai	Renewable Energy -Wind, Solar Power Electronics – Impedence Source Inverter, DC to DC Converter Soft Computing VLSI, Microcontroller
11	Ms. S Arulmozhi	Power electronics(DC-DC converters) Control systems(Design of controllers and analysis)
12	Ms. D.Amudhavalli	Power electronics(inverters, converters and their applications), Renewable energy (Solar, wind)
13	Mr. S Kumaravel	Renewable Energy, Power system modeling and Distributed generation.
14	Ms. S.Sinthamani	Power Electronics, Special electrical machines
15	Ms.K.S.Pavithra	Electronics, VLSI, ASIC
16	Mr. A. Deepak	Special machines and Power Electronics
17	Mr. Ranjith kumar	Power Electronics and Electrical Machines
18	M.Sasikala	Nano electronics
19	Mrs.N.Shanmugavadivu	PV based renewable energy, Multi level inverters.
20	M.Sankar	Power quality
21	S.Sivasankari	Energy prediction studies and Modeling
22	G.Vinoth Kumar	Electrical Drives
23	S.Angala Vaishnavi	Power Electronics and Electrical Machines
24	A. Sureshkumar	Power Electronics , Converters
25	S Lavanya	Power Electronics and Electrical Machines
26	S Sudarsanam	Nano electronics
27		Digital signal processors, VIENNA Rectifier,

	A Tamizh selvan	FPGA
28	D S Purushothaman	Power Electronics and Electrical Machines
29	S.V. Sreeraj	Power Electronics and Electrical Machines
30	V Mohanraj	Digital signal processors, VIENNA Rectifier, FPGA
31	S Anitha	Nano electronics
32	I.Venkataraman	Inveterters and Renewable Energy systems
33	C.Kamal	Modeling and control of BLDC machines , Soft computing
34	M.Rajalakshmi	Renewable Energy systems

2. List of PG projects (Phase-I) carried out by the students in the department as in house project:

Sl./ Roll No.	Name of the Student (Reg. No.)	Project Title	Supervisor Name
1	L.ABIRAMI (212715415001)	ANALYSIS OF THREE PHASE BRIDGELESS RECTIFIER FED PMDC MOTOR DRIVE	Mr.A.TAMIZHSELVAN
2	S.V.ASWIN (212715415002)	CASCADING TWO DIFFERENT INVERTER TOPOLOGIES WITH REDUCED NUMBER OF SWITCHING COMPONENTS	Mr.ANNAMALAI
3	T.BHARATHI (212715415003)	PERFORMANCE AND ANALYSIS OF PERMANENT MAGNET SYNCHRONOUS GENERATOR FOR AIRCRAFT APPLICATIONS	Mr.A.DEEPAK
4	J. JEFFY FELCIA SHARON (212715415004)	PERFORMANCE AND ANALYSIS OF SWITCHED RELUCTANCE MOTOR DRIVE FOR ELECTRIC VEHICLE APPLICATION USING DSP	Dr .NALIN KANT MOHANTY
5	A.KARTHIKEYAKUMAR (212715415005)	COMPARATIVE ANALYSIS OF CONTROL STRATEGIES FOR 13 LEVEL CASCADED H-BRIDGE MULTILEVEL INVERTER FED INDUCTION MOTOR	Mr.D.S. PURUSHOTHAMAN
6	P.MANIMEGALAI (212715415006)	SPEED CONTROL OF THREE PHASE BLDC FAN MOTOR USING FUZZY LOGIC CONTROLLER	Dr.KR.SANTHA
7	K.V.NIRMALA (212715415007)	A COMPARISON OF NON-ISOLATED BIDIRECTIONAL DC-DC CONVERTER TOPLOGIES FOR UPS APPLICATIONS	Mrs.S.ARULMOZHI
8	RUMANA FARHEEN.N (212715415008)	STATE FEEDBACK CONTROL SPEED CONTROL OF PERMANENT MAGNET SYNCHRONOUS MOTOR FOR AN ELECTRIC VEHICLE	Dr.S.G.BHARATHI DASAN
9	V.SANGHAVEE (212715415009)	A SYMMETRIC MULTILEVEL VOLTAGE SOURCE INVERTER WITH REDUCED NUMBER OF SWITCHES	Dr.R.KARTHIKEYAN
10	R.SUBASRI (212715415010)	MODIFIED ZETA CONVERTER WITH POWER FACTOR CORRECTION FOR ARC WELDING	Mrs.D.AMUDHAVALLI

11	R.SUNDARAVEL (212715415011)	CONTROL OF PMSG BASED VARIABLE SPEED WIND TURBINES FOR SYSTEM VOLTAGE REGULATION AND POWER OSCILLATION DAMPING	Mr .S.KUMARAVEL

2. Details of PG Students' participation in workshop ,Conference, Symposium, Seminar, Short term course and publications

Sl. No.	Name	Name of the Conference / Journal / Workshop	Venue	Date
1	ABIRAMI L (212715415001)	9 th International Conference on Trends in Industrial Measurement and Automation (TIMA-2017)	Madras Institute of Technology Campus, Anna University, Chennai	6 th -8 th January 2017
2	PG students of I and II year ME-PED	Workshop on Renewable energy systems	MNM Jain College ,Chennai	20/11/2016

4.a Details of Students' participation in workshop ,Conference, Symposium, Seminar,Short term course and publications – UG

SL.NO	NAME OF THE STUDENT	YEAR	UG/ PG	ACHIEVEMENT PARTICULARS
		I/II/III/IV		
1	BALAJI R	IV	UG	WORKSHOP/ANDROID/CODE BIND TECHNOLOGIES
2	POOJA S	IV	UG	WORKSHOP/ANDROID/CODE BIND TECHNOLOGIES
3	HERZON JAZER C	IV	UG	WORKSHOP/ANDROID/CODE BIND TECHNOLOGIES
4	HARISH A	III	UG	WINTER SCHOOL/COMPUTATIONAL INTELLIGENCE
5	AKASH S	III	UG	INVENTE/TECHFEST/CIRCUITRIX /1ST PLACE
6	AKASH S	III	UG	INVENTE/TECHFEST/BRIDGE BALANCIO/1ST PLACE
7	ASHWIN S	III	UG	WINTER SCHOOL/COMPUTATIONAL INTELLIGENCE
8	SAKTHI SUNDARAM S	III	UG	INVENTE/TECHFEST/SOLDER IT
9	SAKTHI SUNDARAM S	III	UG	INVENTE/TECHFEST/ARDUINO CHALLENGE/3RD PRIZE

10	SAKTHI SUNDARAM S	III	UG	INVENTE/TECHFEST/BOMB SQUAD/3RD PRIZE
11	SAKTHI SUNDARAM S	III	UG	INVENTE/TECHFEST/CIRCUITRIX/1ST PRIZE
12	VISHAG BASKAR	IV	UG	AIESEC/MENTORSHIP PROGRAM
13	ABHISHEK BASKAR	III	UG	BEL/QUIZ/RUNNER UP
14	S AADITHYA	III	UG	BEL/QUIZ/RUNNER UP
15	RAJESH KUMAR R	III	UG	ENTREPRENEURSHIP CAMP /SVCE-EPIC
16	SRINIVASAN R	III	UG	ENTREPRENEURSHIP CAMP /SVCE-EPIC
17	VIGNESH M S	III	UG	ENTREPRENEURSHIP CAMP /SVCE-EPIC
18	ABHISHEK BASKAR	III	UG	ENTREPRENEURSHIP CAMP /SVCE-EPIC
19	HARISH	III	UG	ENTREPRENEURSHIP CAMP /SVCE-EPIC
20	KEVIN GUBBI	III	UG	ENTREPRENEURSHIP CAMP /SVCE-EPIC
21	SHRI LAKSHMI	II	UG	ENTREPRENEURSHIP CAMP /SVCE-EPIC
22	RAMYA G S	II	UG	ENTREPRENEURSHIP CAMP /SVCE-EPIC

Research cell(s) /area(s) of research in the department:

Power Systems and High Voltage Engineering

- Power Systems Optimization ,Power system stability, protection and control
- High Voltage Engineering ,Transmission lines
- Modern Rectifiers and resonant Converters
- Solid state AC and DC drives

Physical Electronics

- Electromagnetics
- Electronic Devices
- Nanotechnology
- Optoelectronics
- Microelectromechanical Systems
- Power Electronics for Renewable Energy Systems

Communications and Signal Processing

- Digital signal processing
- Digital Image processing
- Remote sensing

- Communication systems
- Theory and Algorithms
- Wireless networks

Computer Architecture and Digital systems

- Digital and Analog VLSI Design
- Embedded System Design
- Advanced power semiconductor devices
- Programming with VHDL

Consultancy work in the department:

Conducting laboratory course for AMIE (SVCE is one of the AMIE nodal centers for laboratory courses)