

COIMBATORE INSTITUTE OF TECHNOLOGY, COIMBATORE - 641014

(A Government aided Autonomous Institution affiliated to Anna University)



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ANNUAL REPORT

2018-2019

CONTENTS

- VISION AND MISSION OF THE DEPARTMENT
- DEPARTMENT DETAILS
- ACTIVITIES OF THE FACULTY MEMBERS
- ACTIVITIES OF THE STUDENTS



VISION AND MISSION OF THE DEPARTMENT

VISION

To empower graduates with “capabilities of Academic, Technical and Professional competence and to nurture them in the emerging fields of research, and innovative product development”.

MISSION

The mission of the Electrical and Electronics Engineering program is to:

1. Facilitate the development of students through a broad-based technology oriented education in the field of EEE.
2. Emphasize the application of emerging technologies to solve problems in the fields of EEE.
3. Design and develop products with creativity



DEPARTMENT DETAILS

- COURSES OFFERED
- EQUIPMENTS PROCURED
- Ph.D DETAILS
- NEW FACULTY RECRUITMENT
- BoS MODIFICATIONS
- INDUSTRY INTERACTION
- PLANNING AND PROPOSAL FOR THE FUTURE



(a) COURSES OFFERED

Level	Course	Discipline	Specialization
Under Graduate	Bachelor of Engineering	Electrical and Electronics Engineering	
Post Graduate	Master of Engineering	Electrical and Electronics Engineering	Applied Electronics Embedded and Real Time Systems
Under Graduate	Bachelor of Engineering (Part Time)	Electrical and Electronics Engineering	
Post Graduate	M.S. by Research	Electrical and Electronics Engineering	
Research	Ph.D.	Electrical and Electronics Engineering	

(b) EQUIPMENTS PROCURED

S.No.	Name of the Equipment	Quantity	Cost in Rs.
1.	YASKAWA AC VVVF Inverter 7.5kw/400v	1	1,44,500.00
2.	Fluke make motor analyzer up gradation kit	1	1,99,800.00
3.	Electrical Control Panel for Matrix Converter Drive(7.5Kw)	1	17,800.00
4.	Electrical Control Panel for F7 series Drive(3.5Kw)	1	16,500.00
5.	Arduino UNO All digital and Analog 10 extended RMC separate FT232 and P/M USB cable	7	3,850.00
6.	Arduino top board for LCD, SD card, Blue tooth	6	4,800.00
7.	Raspberry PI.3 module Board	5	32,500.00
8.	RPI camera 5MP night vision	2	5,600.00
9.	5inch TFT LCD Screen with touch	1	4,500.00
10.	ESP8266 based node MC4 development board for LCD.BT, SD card	20	17,000.00
11.	Accessories: Soldering station, glue gum,leadpaste,screw driver set desoldring pump and multimeter	1	9,900.00
12.	Sensors: Dust sensor, Gas sensors	1	2,500.00
13.	HDMI to VGA	3	2,100.00
14.	511 Nucleo-F401RE ST microelectronics Nucleo Board STM32F4	1	3,784.55
15.	Fixed Dual output D.C. regulated power supply	12	33,168.00
16.	Fixed Single output D.C. Regulated Power Supply	4	6,700.00
17.	Arbitrary Function Generator	3	44,670.00



[C] Ph.D DETAILS

Candidates pursuing Ph.D

S.No	Name of the Supervisor	Name of the Scholar	PT/FT
1.	Dr.V.Manikandan	Mr D.Vijeswaran (PT. EX)	Full Time = 2 Part Time External = 3 Part Time Internal = 4
2.		Ms. S. Rathnapriya (PT .INT)	
3.		Ms. Saranya N (PT. EX)	
4.		Mr.Maranco M (PT. INT)	
5.		Mr.Marimuthu C (PT. EX)	
6.		Mr.Viknesh T.V (FT.)	
7.		Mr.Vinodh Kumar P (PT.INT)	
8.		Ms. Rajeswari P (FT.)	
9.		Mr.Vasanthan B (PT.INT)	
1.	Dr.E.Chandira Sekaran	Mr.C.Shanmugam (PT.EX)	Part Time External = 2
2.		Mr.R.Mohan Das (PT.EX)	
1.	Dr.S.Suja	Mr.Thyagu priyadharshan (PT.EX)	Part Time External = 2 Part Time Internal = 3
2.		Mr.Karthik (PT.EX)	
3.		Ms.M.L.Merlin Sajjini (PT.INT)	
4.		Ms. Arthi K (PT.INT)	
5.		Ms. Suganya E (PT.INT)	
1.	Dr.J.Devishree	Ms. Devaki P (PT.INT)	Full Time = 1 Part Time External = 1 Part Time Internal = 2
2.		Mr. Balaji S (PT.EX)	
3.		Ms. Mynavathi M (PT.INT)	
4.		Ms. Saranya K (FT)	
1.	Dr.A.Kavithamani	Mr. S. Sam Karthik (PT.EX)	Part Time External = 2 Part Time Internal = 1 Full Time = 2
2.		Ms. S. Sangeetha Mariammal (PT.INT)	
3.		Ms. K. Bhuvaneshwari (PT.EX)	
1.	Dr. S. Elango	Mr. Gopikannan K (FT)	Part Time External = 1
2.		Mr. Surendar Kashyap T (PT.EX)	
3.		Mr. Thamatapu Eswara Rao (FT) (NDF)	

OUTSIDE CIT: 05

1. Mr.S.NANDHA KUMAR – JUNE 2010
2. Ms.RADHA – JUNE 2014
3. Ms.C. CHRISTINA- JAN 2019
4. Mr.B.SAHUL HAMEED –JAN 2019
5. Ms.Y.HAMSAVARTHINI – 2019



Ph.D Pursuing in Department			
Full Time	Part Time External Scholars	Part Time Internal Scholars	Total Scholars
5	14	10	29

Candidates awarded Ph.D

NAME OF STUDENTS	SUPERVISOR	(FT/PT)/(INT/EXT)
Ms.Shanthi G	Dr.M.Sundarambal	PT - EXT
Ms.Kethsy Prabavathy A	Dr.J.Devi Shree	PT - EXT

[d] NEW FACULTY RECRUITED

S.No	ODD SEMESTER	EVEN SEMESTER
1.	Mr. B. Sahul Hameed	---
2.	Ms. C. Koushika	--
3.	Mr. R. Chandrasekaran	--

[e] BoS MODIFICATIONS

Bos Meetings:

- 11.06.2018 – For adding the new subjects Cyber Physical Systems and Industry 4.0 in UG 2015 curriculum.
- 10.12.2019 – For launching new regulation 2019 for UG and PG
 - AICTE model curriculum is followed along with CBCS
 - In the subject of study Employability Enhancement Courses are introduced
 - Classes are allotted for GATE preparation/Skill development
 - To make the students to enhance their knowledge and skill from the first semester onwards, department association activities are carried out in the allotted hours

Electives introduced in 2015 Curriculum

S.No	Course code / Name of the subjects	L	T	P	C
1	15EEE30 – Intelligent Techniques for Electrical Engineers	3	0	0	3
2	15EEE31 – Electric Vehicles	3	0	0	3
3	15EEE32 – Deregulated Power Systems	3	0	0	3
4	Decision Science, Data Analytics and Deep Learning	One Credit Course			

Modifications carried out in 2019 regulations:

- Mathematics subjects are modified by having calculus and numerical methods in first semester and Vector Calculus, Linear Algebra and Partial Differential Equations in second semester



- Basic civil and mechanical engineering subjects are modified as per the BoS suggestions
- Programming subject is modified as C programming and data bases
- Employability skill courses are introduced in first and second semesters

[f] INDUSTRY INTERATION

Guest Lectures

S.NO.	DATE	TITLE	RESOURCE PERSON
1	24/08/2018	Leadership Development and Soft Skills	Mr. S. Ravi Shankar, Softskills Trainer, TCS
2	28/08/2018	Motivational Factors for Career development	Mrs. Kavitha Rajendhiran, CTS (EEE Alumnus)
3	11/09/2018	Nuances of Project presentation and Special Machines	Mr. S. Murugesan, GM, Perfect Pumps
4	19/09/2018	Steps to follow for Mini and Final year Projects	Mr. Aravindhyan, Robert Bosch, Coimbatore
5	19/02/2019	Electrical Systems, Instrumentation And Process Control of Nuclear Power Generation	Mr. R. Suresh Kumar, Scientific Officer, Kudankulam Nuclear Power Project

Industrial Visit

S.No	Date of Visit	Semester	Place of Visit	Staff Members Accompanied
1.	16.02.2018 to 18.02.2018	IV Sem (Sec-I & Sec - II)	ISRO Bangalore and JVS Electronics, Mysore	Dr.M.Packiasudha Mr. B. Vasanthan and Ms. P. Akhila
2.	01.03.2019 to 03.03.2019	VI Sem (Sec-I & Sec - II)	M/s. Resitech Electricals Cochi, Kerala	Mr.S. Nandakumar Mr. B. Vasanthan Ms. P. Akhila Mr. Shahul Hameed
3.	23.03.2019	1 st Year 2 nd Sem B.E EEE	Kundah Hydro Museum	Dr. S. Agilan Mr. Shahul Hameed Ms. J. Asha Ms. S. Nivethika
4.	30.03.2019	IV sem B.E EEE	Kundah Power House - 1	Ms. C. Kaushika Mr.R. Chandrasekaran

[g] PLANNING AND PROPOSAL FOR THE FUTURE

ANNEXURE 1



ACTIVITIES OF THE FACULTY MEMBERS

- CONFERENCES / FDP / SEMINARS ORGANIZED
- FDP / NPTEL / WORKSHOPS PARTICIPATED
- RESEARCH ACTIVITIES



(a) CONFERENCES / FDP / SEMINARS ORGANIZED

S. No	Title of the Programme	Organized By	Duration	
			From	To
1	AICTE QIP Sponsored One Week Short Term Course on "Power Electronic System Design and applications"	Dr.E.Chandira Sekaran Mr.S.Nandakumar Ms.M.Radha	04/06/2018	10/06/2018
2	TEQIP III sponsored "Equity action plan for faculty and students on embedded system design".	Dr.S.Vasantharathna Ms.A.Priyadharshini Dr.R.Rajalakshmi Mr.B.Vasanthan	03/01/2019	
3	TEQIP III sponsored One day workshop on "Rapid prototyping using ARM".	Dr.E.Chandira Sekaran Ms. S. Suphaseni	08/01/2019	
4	Two day Hands-on Training Program on "E - Procurement Process"	Dr.S.Elango	03/08/2019	
5	TEQIP III Sponsored two days workshop on "Hands on Training Program on Design of Embedded Control Systems"	Dr.G.Manavalan	13/12/2018	14/12/2018

(b) FDP / NPTEL / WORKSHOPS PARTICIPATED

S.NO	FACULTY NAME	FDP ATTENDED	DURATION
1.	Dr.S.Vasantharathna	Short Term Course on "Power Electronic System design and Applications"	04.06.2018 - 10.06.2018
2.	Dr.E.Chandirasekaran	Short Term Course on "Power Electronic System design and Applications"	04.06.2018 - 10.06.2018
3.		Short-term course on "FPGA Based Controller for Power Electronic Converters" under Quality Improvement Programme of AICTE, New Delhi organised by CCE, IISc, Bengaluru.	10-14 June 2019
4.		Faculty Development Programme on Design, Develop & Deliver MOOC courses through SWAYAM platform organised by NIEPA, New Delhi.	01-06 July 2019
5.	Dr.S.Suja	Design, Develop and Deliver On-line Courses- Hands on Approach-Phase-2.	18 - 23, May 2019



6.	Dr.J.Devi Shree	Design,Develop and Deliver On-line Courses-Hands on Approach-Phase-2.	10-12 June 2019 and 19-21 June 2019
7.	Dr.S.Geetha	Short Term Course on "Correlation of AI and ML in Research perspective"	03.12.2018 - 09.12.2018
8.		Design,Develop and Deliver On-line Courses-Hands on Approach-Phase-2.	18 - 23, May 2019
9.	Dr.G.Manavalan	Design,Develop and Deliver On-line Courses-Hands on Approach-Phase-2.	18 - 23, May 2019
10	Ms.K.Vanithamani	Design,Develop and Deliver On-line Courses-Hands on Approach-Phase-2.	10-12 June 2019 and 19-21 June 2019
11	Ms.P.Devaki	Design,Develop and Deliver On-line Courses-Hands on Approach-Phase-2.	10-12 June 2019 and 19-21 June 2019
12	Dr.A.Kavithamani	Short Term Course on "Power Electronic System design and Applications"	04.06.2018 - 10.06.2018
13		Short Term Course on "Correlation of AI and ML in Research perspective"	03.12.2018 - 09.12.2018
14		Design,Develop and Deliver On-line Courses-Hands on Approach-Phase II	10-12 June 2019 and 19-21 June 2019
15		Modeling and Development onto an SoC using Matlab and Simulink	23 - 29 March 2019
16	Ms.A.Priyadharshini	Short Term Course on "Power Electronic System design and Applications"	04.06.2018 - 10.06.2018
17		Short Term Course on "Correlation of AI and ML in Research perspective"	03.12.2018 - 09.12.2018
18		Short term course on "Energy Efficient and Green Energy Technologies"	26.11.2018 - 30.11.2018
19	Mr.S.Elango	Attended Four week Faculty Induction Programme- II Organized by Teaching Learning Center, Coimbatore Institute of Technology, Coimbatore	22 - April 2019 to 19 - May 2019



20	Mr.S.Nandhakumar	Short Term Course on "Power Electronic System design and Applications"	04.06.2018 - 10.06.2018
21		Design,Develop and Deliver On-line Courses-Hands on Approach-Phase-2.	10-12 June 2019 and 19-21 June 2019
22	Dr.R.Rajalakshmi	MHRD sponsored one month Induction Training Programme	12.11.2018 - 08.12.2018
23		TEQIP III sponsored refresher course on Research Methodology, CIT, Coimbatore ,	13th to 26th May, 2019 2 Weeks
24		MHRD sponsored FDP on Design,Develop and Deliver On-line Courses-Hands on Approach-Phase II, organized by E&ICT academy, NIT Warangal at CIT, Coimbatore	10th - 12th June 2019 & 19th - 21st June 2019, 1 Week
25	Ms.M.Mynavathi	Design,Develop and Deliver On-line Courses-Hands on Approach-Phase-2.	10-12 June 2019 and 19-21 June 2019
26		Short Term Course on "Correlation of AI and ML in Research perspective"	03.12.2018 - 09.12.2018
27	Dr.M.Packiasudha	Short Term Course on "Correlation of AI and ML in Research perspective"	03.12.2018 - 09.12.2018
28		Attended Four week Faculty Induction Programme- II Organized by Teaching Learning Center, Coimbatore Institute of Technology, Coimbatore	22 - April 2019 to 19 - May 2019
29	Ms.M.Radha	Short Term Course on "Power Electronic System design and Applications"	04.06.2018 - 10.06.2018
30		Design,Develop and Deliver On-line Courses-Hands on Approach-Phase-2.	18 - 23, May 2019
31	Ms.S.Rathnapriya	Short Term Course on "Correlation of AI and ML in Research perspective"	03.12.2018 - 09.12.2018
32	Dr.K.Suresh	Short term course on "Solar Energy Conversion and Storage"	11.06.2018 - 15.06.2018



33		Design,Develop and Deliver On-line Courses-Hands on Approach-Phase-2.	18 - 23, May 2019
34	Ms.M.L.Merlin Sajini	Short Term Course on "Power Electronic System design and Applications"	04.06.2018 - 10.06.2018
35		Short Term Course on "Correlation of AI and ML in Research perspective"	03.12.2018 - 09.12.2018
36		Design,Develop and Deliver On-line Courses-Hands on Approach-Phase-2.	10-12 June 2019 and 19-21 June 2019
37	Mr.B.Vasanthan	Design,Develop and Deliver On-line Courses-Hands on Approach-Phase-2	10-12 June 2019 and 19-21 June 2019
38	Ms.K.Arthi	Short Term Course on "Power Electronic System design and Applications"	04.06.2018 - 10.06.2018
39		Short Term Course on "IoT Technology and Applications for Smart Environment"	26.11.2018 - 30.11.2018
40	Ms.E.Suganya	Short Term Course on "Power Electronic System design and Applications"	04.06.2018 - 10.06.2018
41		Short Term Course on "IoT Technology and Applications for Smart Environment"	26.11.2018 - 30.11.2018
42		Design,Develop and Deliver On-line Courses-Hands on Approach-Phase-2.	10-12 June 2019 and 19-21 June 2019
43	Ms.S.B.Suphaseni	Short Term Course on "Power Electronic System design and Applications"	04.06.2018 - 10.06.2018
44	Ms.C.Christina	Short Term Course on "Power Electronic System design and Applications"	04.06.2018 - 10.06.2018
45		Short Term Course on "IoT Technology and Applications for Smart Environment"	26.11.2018 - 30.11.2018
46	Ms.Y.Hamsavarthini	TEQIP III sponsored One Week Faculty Development Programme on "Applied Soft Computing: Theory and Practice"	22nd to 28th April, 2019



47	Ms.P.Akhila	Short Term Course on “Power Electronic System design and Applications”	04.06.2018 - 10.06.2018
48		Modeling and Development onto an SoC using Matlab and Simulink	23 - 29 March 2019
49		Design,Develop and Deliver On-line Courses-Hands on Approach-Phase-2.	10-12 June 2019 and 19-21 June 2019
50	Ms.C.Kaushika	Short Term Course on “Correlation of AI and ML in Research perspective”	03.12.2018 - 09.12.2018
51		Design,Develop and Deliver On-line Courses-Hands on Approach-Phase-2.	10-12 June 2019 and 19-21 June 2019
52	Mr.R.Chandirasekaran	Short Term Course on “Correlation of AI and ML in Research perspective”	03.12.2018 - 09.12.2018
53		Short term course on Multilevel Inverters	04.02.2019 - 08.02.2019
54		Four week Faculty induction Program Conducted By TLC - CIT	22 -04-2019 to 19-05-2019
55		One Week QIP Course on “ Multi Level Inverter and Its Applications “ Conducted by IIT - Roorkee	February 04 - 08, 2019.

S.No	Name of the faculty	Name of course	Duration & No of weeks
1.	Ms.M.Mynavathi	NPTEL online certification course “Non-Conventional Energy Resources”.	July 2018 - October2018
2.	Dr. S. Geetha	Embedded System Design with ARM	28 Jan - 31 March 2019 & 8 week
3.	Ms.S.Rathnapriya	Embedded System Design with ARM	28 Jan - 31 March 2019 & 8 week
4.	Dr.A.Kavithamani	CMOS Digital VLSI Design	Feb - April 2019 & 8 week
5.	Mr.S.Elango	Electric Vehicles – Part - 1	Feb –March 2019 & 4 week
6.	Ms.A.Priyadharshini	Advance Power Electronics and Control	Jan - March, 2019 & 8 week



7.	Mr.S.Nandakumar	Introduction to Industry 4.0 and Industrial Internet of Things	Feb – April 2019 &12 week
8.	Ms.M.Radha	Advance Power Electronics and Control	Jan - March, 2019 & 8 week
9.	Dr. K.Suresh	Introduction to Industry 4.0 and Industrial Internet of Things	Feb – April 2019 &12 week
10.	Mr.P.Vinodkumar	Electric Vehicles – Part - 1	Feb –March 2019 & 4 week
11.	Mr.B.Vasanthan	Electric Vehicles – Part - 1	Feb –March 2019 & 4 week
12.	Ms.Y.Hamsavarthini	Electric Vehicles – Part - 1	Feb –March 2019 & 4 week
13.	Ms.E.Suganya	Control Engineering	Jan - Apr 2019 & 12 week
14.	Ms.C.Christina	Electric Vehicles – Part - 1	Feb –March 2019 & 4 week
15.	Mr.R.Chandrasekaran	Introduction to Industry 4.0 and Industrial Internet of Things	Feb – April 2019 &12 week
16.	E.Chandira Sekaran	Advance Power Electronics and Control	Jan - March, 2019 & 8 week
17.	M.L.Merlin Sajini	Advance Power Electronics and Control	Jan - March, 2019 & 8 week
18.	R. Rajalakshmi	Electric Vehicles – Part - 1	Feb –March 2019 & 4 week
19.	Ms.K.Arthi	Control Engineering	Jan - Apr 2019 & 12 week

S.No	FACULTY NAME	Workshop attended	Duration
1.	Dr.S.Vasantharathna	"Deliberations on AICTE model curriculum -2018"	16.07.2018
2.	Dr.V.Manikandan	"Deliberations on AICTE model curriculum -2018"	16.07.2018
3.	Dr.S.Suja	"Deliberations on AICTE model curriculum -2018"	16.07.2018
4.	Dr.J.Devi Shree	"Deliberations on AICTE model curriculum -2018"	16.07.2018
5.	Dr. S. Geetha	Two day Industry-Academia connect program on "AI,ML, Robotics & IoT"	20.12.2018-21.12.2018
6.	Mr.S.Elango	Two Day Workshop "Intellectual Property Rights"	24.01.2019-25.01.2019
7.	Ms.A.Priyadharshini	Patent Workshop by Mr.Manivasagam assistant controller of patents and design,IPO Chennai	10 January 2019
8.	Dr.S.Gunasekaran	"Deliberations on AICTE model curriculum -2018"	16.07.2018
9.		TEQIP- III Sponsored Two Days "Equity Action Plan on Deep Learning" Conducted By CIT	February 15 – 16, 2019



10		One day National Workshop on “Renewable Energy & Grid Interface Technologies” conducted by NPTI	25th February 2019
11		ISSE & ISRO sponsored workshop on “Futuristic Innovative Technologies for Large Scale Multi disciplinary System of National Importance”	11.01.2019 - 12.01.2019
12		One day workshop on “ All india meet of multi brand annual maintenance service with wind electric generators”	20.12.2018
13	Mr.S.Nandakumar	"Deliberations on AICTE model curriculum -2018"	16.07.2018
14	Mrs.R.Rajalakshmi	Conference cum exhibition on Energy Efficiency for a sustainable future	14.12.2018
15		ISSE & ISRO sponsored workshop on “Futuristic Innovative Technologies for Large Scale Multi disciplinary System of National Importance”	11.01.2019 - 12.01.2019
16	Ms.S.RathnaPriya	Hands on training on “Analog design”	14.09.2018- 15.09.2018
17	Dr.K.Suresh	Workshop on Power Quality for Textile Industries at CIT	20-07-2019.
18	Ms.M.L.Merlin sajini	Hands on training on “Analog design”	14.09.2018- 15.09.2018
19		Leadership talk series by Dr.Anand Deshpande, founder chairman & managing director persistent systems organized by MHRD’s Innovation cell.	8 January 2019
20		Patent Workshop by Mr.Manivasagam assistant controller of patents and design,IPO Chennai	10 January 2019
21	Mr.P.Vinodkumar	"Deliberations on AICTE model curriculum -2018"	16.07.2018
22	Mr.B.Vasanthan	"Deliberations on AICTE model curriculum -2018"	16.07.2018
23		Two day colloquium on grant proposal writing, organized by TLC, CIT under PMMMMNMTT scheme of MHRD	March 2019
24	Ms.Y.Hamsavarthini	One Day Workshop on Equity Action plan	3.01.2019
25		Leadership talk series by Dr.Anand Deshpande, founder chairman & managing director persistent systems organized by MHRD’s Innovation cell	8 January 2019
26		Patent Workshop by Mr.Manivasagam assistant controller of patents and design,IPO Chennai	10 January 2019



27	Ms.C.Christina	Leadership talk series by Dr.Anand Deshpande, founder chairman & managing director persistent systems organized by MHRD's Innovation cell	8 January 2019
28		Patent Workshop by Mr.Manivasagam assistant controller of patents and design,IPO Chennai	10 January 2019
29	Mr.B.Sahul hameed	"Deliberations on AICTE model curriculum -2018"	16.07.2018
30	Mr.VenkatKumar	One day training on "Out Systems"	22.01.2019
31	Mr.R.Chandrasekaran	One day training on "Out Systems"	22.01.2019
32		TEQIP- III Sponsored Two Days Equity Action Plan on Deep Learning Conducted By CIT	February 15 - 16, 2019
33		One Day workshop on "Outsystems Teacher Training Workshop" Conducted by Spotcheck Health and wellness service, Coimbatore	January - 22 - 2019

(c) RESEARCH ACTIVITIES

(i) Details of Research Proposals submitted in the CAY

Title of the Proposal / Project	Name of the Funding Agency	Details of PI
Performance Improved Li-ion Battery management system design for Electric Vehicle application	SPARC - Scheme for Promotion of Academic and Research Collaboration	Dr.V.Manikandan Dr.G.Manavaalan Dr.S.Elango
Conversion of wind Energy into ancillary services with optimal battery energy storage	MNRE - Ministry of New and Renewable Energy	Dr.V.Manikandan Dr.G.Manavaalan Dr.S.Elango
Application of Cognitive Radio Network to Monitor, Control and Load scheduling for Smart Grid	Science and Engineering Research Board	Dr.S.Suja Dr.S.Geetha Dr.M.PackiaSudha

(ii) Details of research grants obtained in the CAY

Title of the Proposal / Project	Name of the Funding Agency	Details of PI	Grant Approved (Rs)	Grant Sanctioned (Rs)
Modernisation & Removal of Obsolescence (MODROB) in Control System Laboratory	AICTE	Dr.A.Kavithamani	-	-

(iii) Details of Research Proposals planned to submit in the year

NIL

(iv) No. of publications in the Year

Journal	:	National	:	NIL	International	:	8
---------	---	----------	---	-----	---------------	---	---



(v) Details of the Publications (Journal)

1. Manikandan.V and Viknesh.T, (2018),“ Design and development of Adaptive Fuzzy Logic control system for power management in residential smart grid using Bat algorithm” Technology and Economics of Smart Grids and Sustainable Energy, Springer , vol. 3(19), pp 1-5 (Published on line)
2. ManikandanV, K. D. Vijeswaran (2018), “Stability Analysis of Networked Micro-grid Frequency Load Control System, International Journal of Analysis, Springer, USA, (Published on line on 4th June 2018)
3. ManikandanV,Elango S, S.Subramaniam and Ramakrishnan K (2018), “Fuzzy Logic Based Multi-Level Shunt Active Power Filter for Harmonic Reduction”, International Journal of Operational Research, Inderscience Publishers Ltd (Published Online)
4. S. Elango, R. Latha and P. Bhagavathy., “A case Study on the Impact of Power Quality analysis in Textile Industry” in 13th IEEE International conference on Industrial and Information Systems, Co-sponsored by IEEE Delhi section, IEEE Kharagpur section and IEEE Sri Lanka, organized by Department of EEE, IIT Ropar during 1-2 December 2018.

(vi) Action Plan to increase no of publication in future

- Faculties are encouraged to publish one journal paper for every six months.
- PG students are advised to publish their work in Scopus indexed journals.

Name of the Industry / Academia	Faculty	Details of Collaboration
M.B.M. ENGINEERING COLLEGE, JODHPUR, RAJASTHAN, - 342 011	All Faculty	Twinning Process
Planned for Siemens Pvt. India Limited in Future	Dr. G. Manavalan Dr. S. Elango	Centre of Excellence for Automation, Consultancy services
ZumHeilen Healthcare Pvt. Ltd., Bangalore	Dr. A Kavithamani	Dr. A. Kavithamani, Assistant Professor, and Ms. P. Daarani, PG Student Department of Electrical and Electronic Engineering have developed a ‘Non invasive blood sugar testing model’ under a non-funded project. desires to collaborate with Coimbatore Institute of Technology for purpose of better utilization of this non invasive blood sugar testing model and to commercialize the same, considering the long term benefits of knowledge sharing between both parties so as to establish a vibrant academic collaboration between institute and industry.In this regard a Mou is to be signed between ZumHeilen Healthcare Pvt. Ltd., Bangalore and Coimbatore Institute of Technology, Coimbatore on 4.2.2018.



ACTIVITIES OF THE STUDENTS

- ASSOCIATION ACTIVITIES
- COCURRICULAR ACTIVITIES
- EXTRACURRICULAR ACTIVITIES
- INDUSTRIAL VISITS
- PLACEMENT DETAILS
- CLUB SECRETARIES
- STUDENTS ACHIEVEMENTS



(a) ASSOCIATION ACTIVITIES

(Annexure II)

(b) COCURRICULAR ACTIVITIES

The students of Department of EEE are really interested to update their knowledge and skills to satisfy the current technical scenario. In this view they have participated in various events conducted in outside colleges and received awards too as follows:

S.No	Register No.	Name of The Student	Event	Prize Obtained	Organisation/ College
1	1503021	Gowrisankar M	Paper presentation	Participation	SNS College of Technology, Coimbatore
2	1503028	Kishore S	Paper presentation	Participation	Rathinam Institute of Management, Coimbatore
3			Bosch Road Safety Project Presentation	Participation	Coimbatore Institute of Technology
4	1503029	Krishna Amrutha M	Paper presentation	Participation	SNS College of Technology, Coimbatore
5	1503030	Lavanya K.V	Paper presentation	Participation	SNS College of Technology, Coimbatore
6	1503032	Mariyammal V	Paper presentation	Participation	Rathinam Institute of Management, Coimbatore
7	1503040	Naveen R	Paper presentation	Participation	Rathinam Institute of Management, Coimbatore
8	1503049	Samson Paul.M	Paper presentation	Participation	SONA college of Technology
9	1503051	Santhosh Raj D	Paper presentation	Participation	SONA college of Technology
10	1503071	Dhuragaa V	Paper presentation	Participation	SNS College of Technology
11	1503063	Abirami V	Paper presentation	Participation	SNS College of Technology
12	1503117	Vanathi G. V	Paper presentation	Participation	SNS College of Technology
13	1603081	Lavanya C S	Paper presentation	Participation	Sri Ramakrishna Institute of Technology



					Government College of Technology, CBE
14	1703227	Rubadharani P.M.	Paper presentation	Participation	Sri Ramakrishna Institute of Technology
15	1603090	Muthulakshmi R	Paper presentation	Participation	Sri Ramakrishna Institute of Technology
16	1603097	Ramya S	Paper presentation	Participation	Sri Ramakrishna Institute of Technology
17	1603110	Shibani V	Paper presentation	Participation	Sri Ramakrishna Institute of Technology
18	1703002	K.S.Ananthi	Paper Presentation at Bosch Ignitra 2k19	Participation	Robert Bosch, Coimbatore and CIT
19	1703045	Srejitha Rajiv		Participation	
20	1703049	M.Sudharsan	Paper Presentation at Bosch Ignitra 2k19	Participation	GCT, Coimbatore.
21	1703020	V.Jayashri	Paper Presentation at Bosch Ignitra 2k19	II Prize	Robert Bosch, Coimbatore and CIT
			Paper Presentation at ORACLE 2019	Participation	GCT, Coimbatore.
22	1703050	V.S.Suguna	Paper Presentation at ORACLE 2019	Participation	GCT, Coimbatore.
			Paper Presentation at Bosch Ignitra 2k19	Participation	Robert Bosch, Coimbatore and CIT
23	1703039	S.Saranya Devi	Paper Presentation at Bosch Ignitra 2k19	Participation	Robert Bosch, Coimbatore and CIT
			Paper Presentation at ORACLE 2019	Participation	GCT, Coimbatore.
24	1703054	B.Thirunavukkarasan	Project Presentation at National Science and Technology Fair 2019	Participation	CODISSIA, Coimbatore.
25	1703051	M.Sureka	Paper Presentation at Bosch Ignitra	Participation	Robert Bosch, Coimbatore and CIT



			2k19		
26	1703016	S. Divyapriya	Paper Presentation at	Participation	PSG College of Technology, Coimbatore
27	1703028	S.Mohanapriya	SRISHTI 2k19		
28	1703098	Rithish S	BOSCH IGNITRA	III Prize	BOSCH
29	1703100	Santhiya S	Paper Presentation	Participation	Government College of Technology
30	1703104	Sathvika A	Paper Presentation	Participation	Government College of Technology
31	1703090	Poojasri	BOSCH IGNITRA	Participation	BOSCH

(c) EXTRACURRICULAR ACTIVITIES

CIT encourages extracurricular activities through various clubs and Electrical and Electronics Engineering students have been a part of all club activities and won many prizes.

S.NO	NAME	ROLL NO	SPORTS/GAMES	TOURNAMENTS PARTICIPATED	PRIZE PLACED
1	Henry Barath	1703019	Hockey	13 th Hockey league for Major Dhayan Chand Memorial Trophy at PSG Tech, Coimbatore	II Place
				MCET Trophy 2K19	IV Place
				PART Alumni Trophy	IV Place and Best Player
2	Naveen R	1503040	Kho-Kho	KPR Trophy 2018	I Prize
			Kho-Kho	Anna University Zonal	Runner
3	Ravirajan R	1503045	Ball Badminton	Anna University Zonal	Winner
4	Vignesh M	1503060	Kho-Kho	Anna University Zonal	Runner

(d) INDUSTRIAL VISITS

S.No	Date of Visit	Semester	Place of Visit	Staff Members Accompanied
1.	16.02.2018 to 18.02.2018	IV Sem (Sec-I & Sec - II)	ISRO Bangalore and JVS Electronics, Mysore	Dr.M.Packiasudha Mr. B. Vasanthan and Ms. P. Akhila
2.	01.03.2019 to	VI Sem (Sec-I &	M/s. Resitech Electricals Cochi, Kerala	Mr.S. Nandakumar Mr. B. Vasanthan



	03.03.2019	Sec – II)		Ms. P. Akhila Mr. Shahul Hameed
3.	23.03.2019	1 st Year 2 nd Sem B.E EEE	Kundah Hydro Museum	Dr. S. Agilan Mr. Shahul Hameed Ms. J. Asha Ms. S. Nivethika
4.	30.03.2019	IV sem B.E EEE	Kundah Power House - 1	Ms. C. Kaushika Mr.R. Chandrasekaran

(e) PLACEMENT DETAILS

ANNEXURE III

[f] CLUB SECRETARIES

S.No	Club Name	Position Held	Name of the Student
1	Students Union	Secretary	Karthik.P
2	Dramatix Club	Treasurer	Ranjith Kumar.S
3	Muthamizh Mandram & Ilamparavai	Secretary	Muthu Saravanan.R
5	Literary Club	Treasurer	Harshavardhan.K
6	Music Club	Treasurer	Surya Kumar.S
7	Photography Club	Secretary	Shalini.K
8	Sports Club	Secretary	Gowtham.A.R
9	National Service Scheme	Secretary	Ravirajan.R
10	Youth Red Cross	Secretary	Anbarasu.S
			Gokul Balaji.V
			Shalini.M
		Treasurer	Nanthini.T
11	Road Safety Patrol	Secretary	Gowshalya.S
			Roshini.M
			Vijayamallar.V

[g] STUDENTS ACHIEVEMENTS

• Institution Day Prize Winners

S. No	Name of the Student	Semester	Name of the Award
1.	Ms.Ananthi.K.S	IV	A.B.Raman's Prize
2.	Ms.Deshika.D	IV	A.B.Raman's prize
3	Ms.Srejitha Rajiv	IV	A.B.Raman's prize
4.	Mr.Praveen.P	IV	Dr.Sarada Jagadeesan's merit prize



5.	Mr.Atityan.S.S	IV	Lalithakumar memorial award
6.	Ms.Krishna Amrutha.M	VIII	Dr.Marimuthu endowment prize
7.	Mr.Karthik.P	VI	Mr.R.Ganesan endowment prize
8.	Mr.Karthik.P	VI	1973 batch students endowment prize
9.	Mr.Vignesh.M	VIII	Sivakami memorial award
10.	Mr.Ravirajan.R	VIII	Smt.Krishnammal memorial award
11.	Mr.Karthik.P	VI	Silver Jubilee reunion of 1981 batch snegam award
12.	Ms.Krishna Amruth.M	VIII	Smt. & Sri. Rajalakshmi Karthikeyan annual memorial awards
13.	Ms.Padmasree.N	VIII	Smt. & Sri. Rajalakshmi Karthikeyan annual memorial awards
14.	Mr.Praveen.P	IV	Dr.S.R.N.Sartry student award
15.	Mr.Sudhakar.S	I	Prof.S.Srinivasan endowment prize
16.	Ms.Kayathiri Devi.K	ME (AE)	Dr.B.Viswanathan endowment prize

• **Rank Holders of the Department
(EVEN)**

S.NO	RANK	ROLL NUMBER	Name	CGPA
2nd SEMESTER B.E- EEE				
1	1	1703002	Ananthi.K.S	9.81
2	2	1703050	Suguna.V.S	9.73
3	3	1703016	Divyapriya.S	9.58
4th SEMESTER B.E- EEE				
4	1	1603022	Karthik.P	10.00
5	2	1603052	Surega.R	9.64
6	3	1703222	Naveen.J	9.59
6th SEMESTER B.E- EEE				
7	1	1503029	Krishna Amrutha.M	9.64
8	2	1503090	Padmasree.N	9.50
9	2	1503013	Denis Roosevelt.S	9.50
10	3	1503086	Muthusaravanan.R	9.45
M.E Applied Electronics				
2nd Semester				
11	1	1765002	Kiruthiga.M	8.53
12	2	1765001	Kayathiri Devi.K	7.89



4th SEMESTER				
13	1	1665002	Durga.K	10.00
14	2	1665004	Sowmya.P	10.00
15	2	1565011	Sufaya.S	9.00
16	2	1565007	Amritvalli.P	9.00
17	3	1665006	Divya.C	8.00
18	3	1665005	Gokul.P	8.00
19	3	1665001	Lavanya.S	8.00
20	3	1665003	Yuhasini.S	8.00
M.E Embedded & Real Time Systems				
2nd Semester				
21	1	1766001	Prithvi Raj.K.R	8.74
22	2	1766004	Uma Maheshwari.D	7.89
23	3	1766003	Sathyanarayanan.D.R.N	7.16
4th SEMESTER				
24	1	1666004	Vishnu Mohan	10.00
25	2	1666002	Vinodhini.C	9.00
26	2	1666001	Akshara.K.C	9.00
27	2	1666003	Kalaivani Kosala.T	9.00
28	2	1666005	Karthikeyan.M	9.00
29	3	1666007	Princiya Beulah Rani.J	8.00
30	3	1666008	Saravanakumar.K	8.00
4th Semester B.E -Part Time- Eee				
31	1	1610309	Manikandan.J	6.88
32	2	1510315	Raghupathy.P	6.71
6th SEMESTER B.E -PART TIME- EEE				
33	1	1510304	Gowri.D	9.20
34	1	1510311	Periyasamy.K	9.20
35	2	1510313	Prema.M	7.93
36	3	1510320	Sasikumar.B	7.80

(ODD)

S.NO	RANK	ROLL NUMBER	Name	CGPA
3rd SEMESTER B.E- EEE				
1	1	1703002	Ananthi.K.S	9.27
2	1	1703116	Vaishavi Sri.R	9.27
3	2	1703099	Sandhya.S	9.14
4	2	1703107	Sindhu.R	9.14
5	2	1703112	Susheela.N	9.14



6	2	1703089	Petchisribharathi.G	9.14
7	3	1703111	Suryan.R.C	9.05
5th SEMESTER B.E- EEE				
8	1	1603097	Ramya.S	9.86
9	2	1603090	Muthulakshmi.R	9.52
10	2	1603022	Karthik.P	9.52
11	2	1603096	Pavithra.S	9.52
12	3	1703222	Naveen.J	9.39
7th SEMESTER B.E- EEE				
13	1	1503029	Krishna Amurtha.M	9.61
14	2	1503013	Denis Roosevelt.S	9.28
15	2	1503050	Santhoshkumar.G	9.28
16	3	1503064	Ajeethkumar.P	9.11
17	3	1503091	Pavithra.S	9.11
M.E Applied Electronics				
1st Semester				
18	1	1865003	Yazhini.M	7.71
3rd SEMESTER				
19	1	1765002	Kiruthiga.M	9
M.E Embedded & Real Time Systems				
1st Semester				
20		1866011	Sneha.S	8.52
3rd SEMESTER				
21	1	1766004	Umamaheswari.D	9.33
22	2	1766001	Prithvi Raj.K.R	8.33
23	1	16166001	Jerome.C (Part Time)	9
1st SEMESTER B.E -PART TIME- EEE				
24	1	1810312	Ignesiya Jiguna.R	7.75
7th SEMESTER B.E -PART TIME- EEE				
25	1	1510304	Gowri.D	9.18
26	2	1510311	Periyasamy.K	8.94



[h] INTERNSHIP DETAILS

S.NO	ROLL NO	Name	DEPT	COMPANY	PAY/month	PERIOD
1	1503106	Siddick Basha S	EEE	ZOHO	15000	45 Days
2	1503060	Vignesh M	EEE	ZOHO	15000	45 Days
3	1503076	Gowtham M	EEE	ZOHO	15000	45 Days
4	1503100	Santhanakumar P	EEE	ZOHO	15000	45 Days
5	1503019	Gogul Bharathi	EEE	TCS	10000	45 Days
6	1503090	Padmasree N	EEE	TCS	10000	45 Days
7	1503003	Aishvarya S	EEE	TCS	10000	45 Days
8	1503116	Dinesh Kumar M	EEE	TCS	10000	45 Days
9	1503060	Vignesh M	EEE	TCS	10000	45 Days
10	1503076	Gowtham M	EEE	TCS	10000	45 Days
11	1503108	Sounder R	EEE	TCS	10000	45 Days
12	1503106	Siddick Basha S	EEE	TCS	10000	45 Days
13	1503102	Shalini K	EEE	SOLITON	15000	45 Days
14	1503073	Ganesh Bharathi P	EEE	SOLITON	15000	45 Days
15	1503063	Abirami V	EEE	SOLITON	15000	45 Days
16	1503064	Ajeethkumar P	EEE	SOLITON	15000	45 Days
17	1503116	Uma Maheshwari S	EEE	SOLITON	15000	45 Days
18	1503086	Muthusaravanan R	EEE	SOLITON	15000	45 Days
19	1503036	Monish P	EEE	SIEMENS	-	23 Days
20	1503015	Dheersh	EEE	SIEMENS	-	23 Days
21	1503042	Raghul.J.K	EEE	SIEMENS	-	23 Days

PROJECT DETAILS - ANNEXURE IV