

Propagation 2019

VELAMMAL INSTITUTE OF TECHNOLOGY DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Vision of the Institute

To be a leader in imparting quality technical education, research and enterprising skills in pursuit of professional excellence

Mission of the Institute

To promote quality education & technical skills to meet the industry requirements

To incorporate team work, leadership skills & lifelong learning

To facilitate career development & higher education assistance

To encourage innovative ideas for research & development and entrepreneurship for societal needs

To inculcate ethical responsibility & human values



Vision of the Department

To achieve academic excellence in the field of Electronics and Communication Engineering and to produce meritorious engineers with human values by imparting high quality technical education

Mission of the Department

To create efficient Electronics and Communication Engineers to meet the current and future demands of industry and society with ethical values

To instil the quality of leadership and entrepreneurship in students

To elevate the spirit of innovation and creativity among students towards research and development

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

PEO-I: Futuristic Learning:

Graduates will attain excellence in the field of Electronics and Communication Engineering through lifelong learning process by imbibing the new technologies.

PEO-II: Career Development:

Graduates will become successful engineers or researchers or entrepreneurs with social responsibilities.

PEO-III: Professionalism:

Graduates will excel as estimable engineers with ethics, effective communication and leadership skills.



CATALOG

- **Message from hod desk**
- **Conference / seminar / workshop / FDP**
- **An awareness program on entrepreneurship was conducted by ECE department**
- **A national level workshop on machine learning algorithms and its applications in medical field**
- **Innovation geeks -19**
- **IETE students' forum expert lecture**
- **Tribarna –partriotic event**
- **List of student's publicationsn in international journals 2018-19 even**
- **List of students conferences by students 2018-19**
- **Students achievements**
- **Faculty publications**
- **Faculty participations**
- **Industrial visit**



Message From HOD Desk



Welcome to the Department of ECE, Velammal Institute of Technology
We, the Department of ECE, feel our enthusiasm to publish the
2018-2019 even semester issue of our departmental newsletter,
“Propagation”. I, as a head of the department, would like to thank all
the faculty members, non-teaching staffs and students for their limitless
support and sincere efforts for the betterment and development of the
department.

On this occasion, I congratulate all the team members of the editorial
board for bringing up this issue in a better shape.



S.No	Conference / Seminar / Workshop / FDP	Title of the Program	Chief Guest/ Resource Person	Date
1	Interaction- Yelcom Club Activity	Placement Guidance	Nisha.M.P, Placed in Cognizant (IV CSE)	24-12-2019
2	Interaction - Yelcom Club Activity	Placement Guidance	Gnana Shankari (IV ECE)	31-12-2019
3	Yelcom Club Activity	Adzap	Staff Coordinator Dr.M.Mahalakshmi Associate Professor/ECE Student Coordinator Karthiga.A(III ECE)	28-01-2019
4	Yelcom Club Activity	Dumb Charades	Juries Dr.M.Mahalakshmi Associate Professor/ECE Mr.K.Ragupathi Assistant Professor/ECE	28-01-2019
5	Yelcom Club Activity	Pencil Sketching (Theme : Patriotism)	Jury Dr.B.Sridevi, HOD-ECE	29-01-2019
6	Yelcom Club Activity	Speech Competition	Jury Mr.S.Karthikeyan, Assistant Professor/ECE	29-01-2019
7	Yelcom Club Activity	Tribarna (Republic Day Celebration)	-	29-01-2019
8	Yelcom Club Activity	Speech Competition Women a precious gem	Dr.R.Jothichithra Professor/ECE	06-03-2019
9	Yelcom Club Activity	Debate Competition	Mr.Jijingodwin,AP/ECE Ms.Bhavani, Associate Professor/ECE	07-03-2019



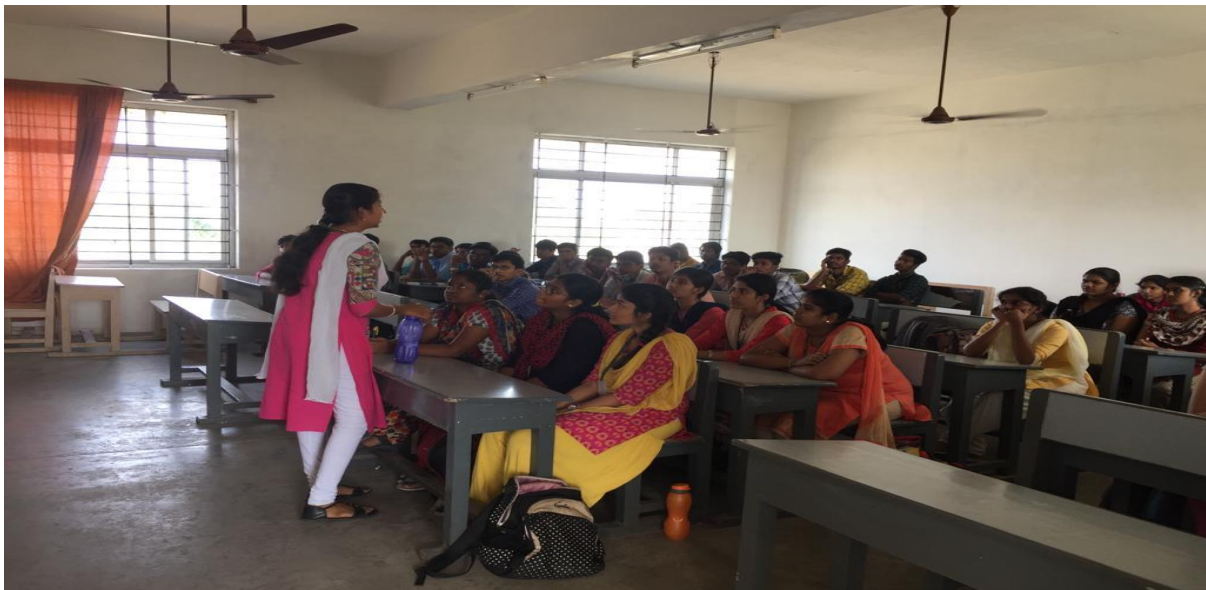
10	Yelcom Club Activity	Evolve- Department Magazine Release	-	14-03-2019
11	Seminar	Awareness on Entrepreneurship-ED CELL	Ms. Nirmala, Alumni	12.2.19
12	Workshop	A National Level Workshop on Machine Learning Algorithms and its Applications in Medical Field	Prof. Dr. P.Vetrivelan, VIT-Chennai	09.01.2019
13	A Project Competition	Innovation Geeks -19	Dr.Vaidiyanathan Asst professor, IIT Delhi	23-02-2019
14	Expert Lecture	“Learning locally and reaping globally”- Challenges for the developing country engineers	Dr.NihalKularatna, Associate Professor in Electronic Engineering,University of Waikato, New Zealand	14-02-2019.
15	Guest Lecture	Guest lecture on Communication Systems	Dr.V.Latha, Professor, ECE Velammal Engineering College	08-03-2019
16	Value Added Program	Expert Lecture on effective project management	Mr.Sivakumar CEO Lean Six sigma	22.12.2018



An awareness program on Entrepreneurship was conducted by ECE department

Date:12-02-2019

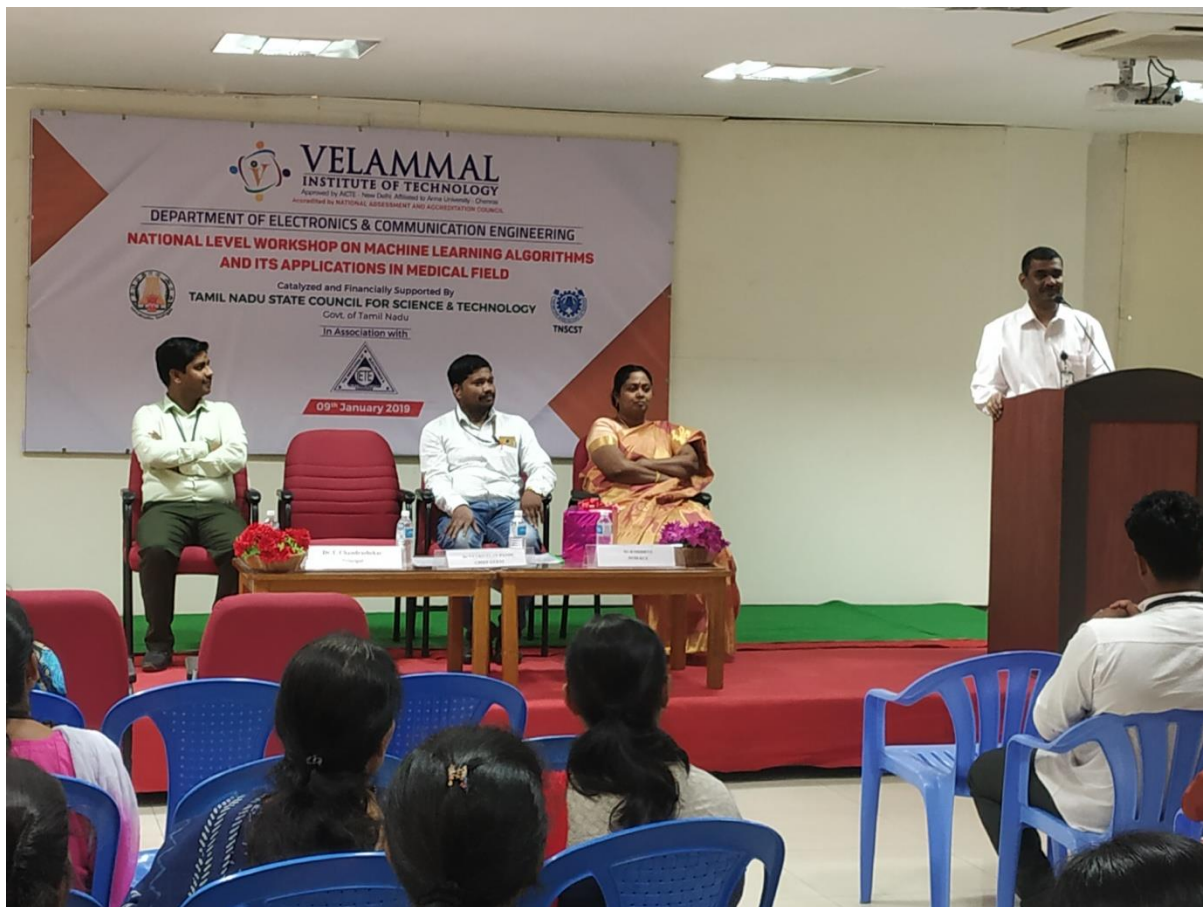
Venue: ED CELL





A National Level Workshop on Machine Learning Algorithms and its Applications in Medical Field

Date: 09.01.2019



Innovation Geeks -19 (A Project Competition)

IETE Students' Forum of Department of Electronics and Communication Engineering, Velammal Institute of Technology, Panchetti organized the Innovation Geeks-19 Project Competition on 23-02-2019. This intra departmental Project Competition is a unique competition focusing 2nd and 3rd year ECE Department students. All the II year and III Year Students of ECE Department showcased their projects in this event. Dr.Vaidhyanathan,IIT Delhi was the chief guest. The projects were evaluated by professionals from industry as well as academicians. The contestants were judged on various criteria where they demonstrated their projects and ideas.Ms.P.Pattunarajam,Associate Professor, ECE Department coordinated the programme.





IETE Students' Forum Expert Lecture

On

“Learning locally and reaping globally”- Challenges for the developing country engineers

IETE Students' Forum of Department of Electronics and Communication Engineering, Velammal Institute of Technology, Panchetti organised Expert Lecture On “Learning locally and reaping globally”- Challenges for the developing country engineers on 14-02-2019. Mr. P. Abhishek, III Year ECE welcomed the gathering. Dr. B. Sridevi, Professor & Head, ECE Dept. and Dr. K. Rajeswari, Professor & Head, EEE Dept. jointly felicitated the chief guest. **Dr. Nihal Kularatna**, Associate Professor in Electronic Engineering, University of Waikato, New Zealand was the resource person. Ms. S. Shivangi, III Year EEE, proposed vote of thanks. Mr. K. Ragupathi, Assistant Professor, ECE Dept. ISF Staff In charge coordinated the programme





TRIBARNA –PARTRIOTIC EVENT

Date: 29.01.2019





List of Students publication in International Journals 2018-19 EVEN

S.No .	Name of the Students	Title of the Paper	Journal Name	Volume / Issue / Page No.	Publication Month/ Year
1.	Janani M Sneha. B Lakshmi Preethi.S	Analysis of Gas in air in a vehicle cabin based on IOT	IJAREST	Vol.6,Issue 03,	March 2019
2.	Aruna K Mahesha Sree S Sashimithra. S	Security Protocol using ALTA for Implantable Medical devices deploymernt	IJAREEIE	Vol.8,Issue 02	February 2019
3.	Ahalya Krishnan. B.S Sneha J Suganthi.B	A survey on Intelligent walking stick for visually challenged people	IJAREEIE	Vol.8,Issue 02	February 2019
4.	S.Sruthi R.Benisha N.R.Abarna K.Priya	IOT based automated ambulance and patience assisstence system using MTF Algorithm	IJAREEIE	Vol.8,Issue 02	February 2019

List of Students conferences by Students 2018-19

Propagation 2019



S. No.	Name of the Students	Title of the Paper	Name of the Conference	Conference Date
1.	Jayashree.V Sangeetha P Priyadarshini.V	Multipurpose Defence Tank	ICIEI -2019	13-3-2019 & 14-03 -2019
2.	Ahalya Krishnan. B.S Sneha J Suganthi.B	An intelligent walking stick for visually challenged people	ICRDET'19	16-03 -2019
3.	Preetha S Sreeja.S Sushmitha S	Static wireless charging electric vehicle.	OFISER-2019	16-03 -2019
4.	Anusha. K Sivaranjini S Sushma.B	Wearable real time monitoring system	ICIET-19	16-03 -2019
5.	Nisha. V Nusrath S A Janani.M	Pilot allocation scheme for 5G massive MIMO system using deep learning	ICCET-2019	09-3-2019 & 10-03 -2019
6.	Priyanka. R Lavanya.P Deepika C	A compact QUAD element MIMO antenna for wireless application	ICRDET'19	16-03 -2019
7.	Sai Vardhini V Maheswari R	Analysis of MIMO OFDM for future wireless communication	ICCET-2019	09-3-2018 & 10-03 -2019
8.	Harini.M Nithya. R Punitha. R	Low cost computer vision based pattern detection in textile industries	ICIEI-2019	13-3-2019 & 14-03 -2019
9.	Aruna K Mahesha Sree S Sashimithra. S	Security Protocol using ALTA for Implantable Medical devices deployment	ICRDET'19	16-03 -2019



10.	Subathra G Surya Gayathri H Keerthika.R	Garbage Collecting system using capacitive proximity sensor	ICRDET'19	16-03 -2019
11.	Jayashree.G Sanjana. B Shalini R	Automatic Detection of diabetic retinopathy in retinal images using Deep multiple Instance Learning	ICRDET'19	16-03 -2019
12.	S.Sruthi R.Benisha N.R.Abarna K.Priya	IOT based automated ambulance and patience assistance system using MTF Algorithm	ICRDET'19	16-03 -2019
13.	Kuralarasu.N Santhosh.M Anvesh Konduru	Dual band MIMO Antenna for WLAN Applications	ICRDET'19	16-03 -2019
14.	Reena S. K Subashini. B Suganya	Low cost computer vision based colour identification in textile industry	ICRDET'19	16-03 -2019
15.	Agilesh Kumar M Akash.V Praveen. V	Third Generation ATM using Digital Image Processing	ICRDET'19	16-03 -2019
16.	Nivetha.A Shine Christina.M Gousalya.R	Human object behavior monitoring system based on machine learning Algorithm	ICRDET'19	16-03 -2019
17.	Bhavana.R Narmadha Devi.P	Multi Terrain Robotic minesweeping	ICIECS-2019	22-03 -2019
18.	Balaji.G Hrithick Roshan.P Vignesh.B	Filter Bank Multicarrier (FBMC) implementation in Field Programmable Gate Array9FPGA)	ICRDET'19	16-03 -2019
19.	N.Aravinthini V.Praveena P.Valli	Advanced automated classification of white blood cell cancer using ANN	ICRDET'19	16-03 -2019
20.	Krithiga M	Shape decomposition for	ICETCEE 2019	17-03 -2019



	Gowwthami.B Divya Shree S	disaster assessment using high end vector machine classifier.		
21.	Jayakumar U Ezhilarasan S Lokesh P	Inverted- L MIMO array antenna for 4G/5G	ICETCEE 2019	17-03 -2019
22.	Arun kumar.P S Aravindan.D Suriya. R	Disease diagnosing system using human nail by image processing	ICRDET'19	16-03 -2019
23.	Karthikeyan.SS Jude Alphonse Savio F	IOT surviellance rover.	ICETCEE 2019	17-03 -2019
24.	Lokesh A Mukesh. D Navaneedhan.G	Design of wearable pentagonal fractal antenna for soldier location tracking	ICETCEE 2019	17-03 -2019
25.	Raghul.R Jeevan reddy A Sabarinath A B	Unauthorized access detection in iot using canary token algorithm	ICRDET'19	16-03 -2019
26.	Keerthana.R Shanmuga Priya. I M.Dhanalakshmi	A statistical approach for estimation of crop yield in air borne spectral image.	ICETCEE 2019	17-03 -2019
27.	Relin Bessy.R Shri Harini.D Shalini C	Allevation of time for fault detection using a parallel circuit testing in IC's	ICRDET'19	16-03 -2019
28.	Jayakrishna TH Sriram.S	Soil and Water Monitoring system.	ICRDET'19	16-03 -2019
29.	Vignesh K Gnanasankari.B Lianne Rachel Johnson	Speed Control of Brushless DC Motor using ARM7 with PWM Technique in Proteus	ICSIE 2019	24-03-2019
30.	Mohammed Arif Khan. S Vasanth. T Vigneshwar.D	Ultrasonic Medical Image conversion to 2D using machine learning	ICRDET'19	16-03 -2019
31.	Dinesh T Mohammed Riyaz s	Shaik SohailAutomated irrigation system without soil	ICRDET'19	16-03 -2019



	Shaik Sohail	using Ardino and GSM		
32.	Priyanga P Delphin. A Preethi.P	Efficient Saliency detection using convolutional Neural NetworkS	ICRDET'19	16-03 -2019
33.	Raghav H Sudharsan V Yugash.M	Muscle stress detection and robotic arm for stroke's physiotherapy treatment	ICETCEE 2019	17-03 -2019
34.	Kakarla Vekata Naga Divakar Jeevanandham P Abilesh Priyadharshan.J	Hand gesture Recognition for deaf and dumb people using MATLAB	ICRDET'19	16-03 -2019



STUDENTS ACHIEVEMENTS

S. No	NAME OF STUDENTS	BATCH	EVENT NAME/ORGANIZATION	EVENT TYPE	DATE	PRIZE
1	MURALI KRISHNAN J	2017-2021	T.J.S. ENGINEERING COLLEGE	PROJECT DISPLAY	16.03.2019	II
	MOHAMMED SALMAAN J					
	THIRUMURUGAN K					
2	AFZAL KHAN B	2016-2020	ST.JOSEPH COLLEGE OF ENGINEERING	PROJECT DISPLAY	09.03.2019	I
	MAHENDRAN R					
	NEWGIN SAM E					
3	DIVYANI T	2016-2020	ST.JOSEPH COLLEGE OF ENGINEERING	PROJECT DISPLAY	09.03.2019	I
4	RAKESH M	2016-2020	ANNA UNIVERSITY	PROJECT DISPLAY	07.03.2019	III
5	MUKESH KHANNA M	2016-2020	RAJALAKSHMI ENGINEERING COLLEGE	PROJECT DISPLAY	25.02.2019	I
6	KISHORE P	2016-2020	CHENNAI INSTITUTE OF TECHNOLOGY	PAPER PRESENTATION(MR.G)	22.02.2019	II
	RAKESH M					
7	MONISHA M	2016-2020	CHENNAI INSTITUTE OF TECHNOLOGY	DEAFLY/ENQUIZ TA	22.02.2019	I
8	KARTHIKEYAN K	2016-2020	CHENNAI INSTITUTE OF TECHNOLOGY	TECHNICAL QUIZ	21.02.2019	I
9	NILAVARSI M M	2016-2020	CHENNAI INSTITUTE OF TECHNOLOGY	SOLO SINGING	21.02.2019	I
10	GAYATHRI .S	2016-2020	CHENNAI INSTITUTE OF TECHNOLOGY	PROJECT DISPLAY	21.02.2019	I
	BINITA PAUL P					
	SUCHARITHA					
11	ABHISHEK P	2016-2020	VELAMMAL ENGINEERING COLLEGE	MINI PROJECT	16.02.2019	I
	SRI BALAJI M					
	SANGEETH KUMAR T					
	NATARAJAN R					
12	ABHISHEK P	2016-2020	VELAMMAL ENGINEERING COLLEGE	PAPER PRESENTATION	16.02.2019	I
	NATARAJAN R					



	SRI BALAJI M					
13	NANDHINI D SUBHASHRI A.S	2016-2020	EASWARI ENGINEERING COLLEGE	PROJECT DISPLAY	15.02.2019	I
14	JEEVITHA N POOJA BHARGHAVI G	2017-2021	TAGORE ENGINEERING COLLEGE	PAPER PRESENTATION	15.02.2019	I
15	JEEVITHA N POOJA BHARGHAVI G	2017-2021	TAGORE ENGINEERING COLLEGE	TECHNICAL QUIZ	15.02.2019	I
16	ABHISHEK P SRI BALAJI M	2016 - 2020	EASWARI ENGINEERING COLLEGE	PAPER PRESENTATION	13.02.2019	I
17	ABHISHEK P SRI BALAJI M SANGEETH KUMAR T NATARAJAN.R VAMSI KRISHNA REDDY B	2016 - 2020	VENKATESWARA COLLEGE OF TECHNOLOGY	PROJECT DISPLAY	09.02.2019	II
18	ABHISHEK P SRI BALAJI M SANGEETH KUMAR T	2016 - 2020	VENKATESWARA COLLEGE OF TECHNOLOGY	PAPER PRESENTATION	09.02.2019	I
19	AKASH K SRINIDHI S	2016-2020	EASWARI ENGINEERING COLLEGE	PAPER PRESENTATION	29.01.2019	I
20	AKASH K SRINIDHI S POORNIMA R M SRIKANTH	2016-2020	EASWARI ENGINEERING COLLEGE	PROJECT DISPLAY	29.01.2019	II
21	POORNIMA R M SRIKANTH	2016-2020	MADRAS INSTITUTE OF TECHNOLOGY	PROJECT DISPLAY	25.01.2019	I
22	K AKASH SRINIDHI S	2016-2020	MADRAS INSTITUTE OF TECHNOLOGY	IDEA PRESENTATION	25.01.2019	I
23	ABHISHEK P NATRAJAN R SRI BALAJI M	2016-2020	MADRAS INSTITUTE OF TECHNOLOGY	PAPER PRESENTATION	25.01.2019	I
24	POORNIMA R AKASH K SRINIDHI S SRIKANTH M	2016-2020	MAHENDRA ENGINEERING COLLEGE	PROJECT DISPLAY	09.01.2019	II



FACULTY PUBLICATIONS

Name of the Staff	Journal Name	Paper Title	ISSN No.	Page No.	Date of Publication
Dr.B.Sridevi	Springer soft computing	A Novel Neyman Pearson Criterion Based Adaptive Neuro Fuzzy Inference System (NPCANFIS) Model for Security Threats Detection in Cognitive Radio Networks	1433-7479	1-9	May 2019
Dr.Chinnuswamy	IJLTET	Farmer to customer e trade	2278-621X	50-56	May 2019
Dr.Chinnuswamy	IJSIET	Analysis of MIMO OFDM for future wireless communication	9789381288184		May 2019
Mr.G. Shanmugaraj	IJAREEIE	A Survey on Intelligent Walking Stick for visually Challenged People-		642-646	May 2019
Dr.M.Mahalakshmi	Advances in Intelligent Systems and Computing book series (AISC, volume 846)	Real-Time Human Detection and Tracking Using PEI Representation in a Dynamic 3D Environment	NA	179-195	Mar 2019
Mr. S. Karthikeyan	Indian Journal of Applied Research	Brain tumour detection using EEG SIGNAL	ISSN - 2249-555X	213-215	January 2019
Mr. Narender Malishetty	Journal of Emerging Technologies and Innovative Research (JETIR)	WEARABLE REAL - TIME ENVIRONMENT MONITORING SYSTEM -	2349-5162	296-299	May 2019
Mr. B. V. Santhosh Krishna	Journal of Medical Imaging and Health Informatics	Unsupervised Automated Retinal Vessel Extraction Framework Using Enhanced Filtering and Hessian Based Method with Hysteresis Thresholding	2156-7018	1000-1010	May 2019
Mr. J. Jijin Godwin	IJAREEIE	IOT based automated ambulance and patient assistance systems using MTF algorithm-	2320 - 3765	627-633	March 2019



FACULTY PARTICIPATIONS

S. No	Name of the Staff	FDP/Workshop/Seminar	Title of the Program	Date	Organized by
1	Dr.B.Sridevi	FDP-NPTEL	Industrial IOT 4.0	May 2019	IIT
2	Dr.R.Jothi Chitra	FDP-NPTEL	Antennas	May 2019	IIT
3	Mr. S. Ilaiyaraja	FDP –NPTEL	TALE, ANTENNA,EFFEC TIVE ENGINEERING PRACTISE	May 2019	IIT
4	Mrs.Jeyamani Latha	FDP-NPTEL	Antennas	May 2019	IIT
5	Mr.G. Shanmugaraj	FDP	COGNITIVE RADIO	6-11 May 2019	Velammal Engineering College
6	Ms. S. Manju	FDP-NPTEL	Antennas	May 2019	IIT
7	Mr. B. V. Santhosh Krishna	FDP	COGNITIVE RADIO	6-11 May 2019	Velammal Engineering College
8	Mr. J. Jijin Godwin	FDP	COGNITIVE RADIO	6-11 May 2019	Velammal Engineering College
9	Ms.T. Kamalam	FDP	Python Programming on analog discovery kit	10-16 June 2019	Anna University,G uindy



INDUSTRIAL VISIT



S.No	Name of the organization	YEAR	Total No of Students	Date of Visit
1	SIEMENS GAMESA	II ECE A	50	13/02/2019
2	PARLE AGRO	II ECE B	51	07/03/19
3	NIOT-National Institute of Ocean Technology	III ECE A&B	98	15/03/2019