

DEPARTMENT OF ELECTRONICS ENGINEERING, MIT CAMPUS

Annual Report for the Period 01.07.2017 - 30.06.2018

Name of the Department / Division / Centre / Institute :
Department of Electronics Engineering, MIT Campus

- 1) Detailed list of Professors, Associate Professors, Assistant Professors and their **Ph.D. specialization** during the period **01.07.2017 to 30.06.2018**

Sl. No.	Name of the Professor/ Associate Professor/ Asst. Professor	E-Mail Address	Field of Specialization
1.	Dr. K. Bhoopathy Bagan Professor	kbb_mit@annauniv.edu	Signal & Image Processing
2.	Dr. Mala John Professor	malajohn@annauniv.edu	Image Processing & Pattern Recognition, Communication System
3.	Dr. M. Ganesh Madhan Professor	mganesh@annauniv.edu	Optical Communication
4.	Dr.P.T.V.Bhuvanewari Professor	ptvbit@annauniv.edu	Wireless communication and networking, Wireless sensor networks
5.	Dr. S. Indira Gandhi Associate Professor	indira@mitindia.edu	Optical Communication and Networking
6.	Dr. P. Indumathi Associate Professor	indu@mitindia.edu, indu@annauniv.edu	Communications and Networking
7.	Dr. M. Kannan Associate Professor	mkannan@annauniv.edu	VLSI, Computer Architecture & Computer Networks
8.	Dr. M. Manikandan Associate Professor	maniiz@annauniv.edu	Image Processing
9.	Dr.P.Prakash Associate Professor	prakashp_mit@annauniv.edu	Signal Processing
10.	Dr.D.Meganathan Asst. Professor (Sr.Gr.)	meganathan_phd@annauniv.edu	ADC Design, VLSI Architectures
11.	Dr.S.P.Joy Vasantha Rani Asst Professor (Sr.Gr.)	joy_mit@annauniv.edu	VLSI, Computer Architecture and Neural & Fuzzy
12.	Dr.G.Kavitha Asst Professor (Sr.Gr.)	kavithag_mit@annauniv.edu	Image processing

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13.	Dr.S.Piramasubramanian Assistant Professor	spirama@annauniv.edu	RF Engineering & RF Photonics and optical communication
14.	Dr.S.Vasuhi Assisant Professor	vasuhi_s@annauniv.edu	Micro wave and Optical communication
15.	Ms.G.Sumithra Assistant Professor	gsumithra@annauniv.edu	Wireless Communication and Image processing
16.	Dr.T.Subashri Assistant Professor	tsubashri@annauniv.edu	Networking, VoIP
17.	Mrs.C.Sridevi Assistant Professor	sridevijegan@annauniv.edu	VLSI Signal Processing, Digital Image Processing
18.	Mrs.K.Mariammal Assistant Professor	mariammal@annauniv.edu	VLSI for Multirate Signal Processing
19.	Mrs.C.Rimmya Assistant Professor	rimmya@annauniv.edu	Communication Systems
20.	Mrs.A.Divya Assistant Professor	arivalagandivya.25@gmail.com	Image Processing
21.	Mr.G.Balamurugan Assistant Professor	balanmail12@gmail.com	Sensor Networks
22.	Dr.V.Sathiesh Kumar Assistant Professor	satiesh@gmail.com	Opto Mechatronic System Design, Embedded Systems

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2) List of Degrees awarded during the period **01.07.2017 to 30.06.2018**

a. M.Phil.

Sl. No.	Title of the Thesis	Name of the Scholar	Name of the Supervisor	Month & Year of Viva-voce conducted
Not Applicable				

DEPARTMENT OF ELECTRONICS ENGINEERING, MIT CAMPUS**Annual Report for the Period 01.07.2017 - 30.06.2018****b. M.E. / M.Tech. / M.Arch. / M.Plan. / MBA / MCA****Wireless Technologies**

Sl. No.	Title of the Thesis	Name of the Scholar	Name of the Supervisor	Month & Year of Viva-voce conducted
1.	Performance analysis of cluster based cooperative spectrum sensing in cognitive radio networks	Abinaya R J	Mrs. Vineetha Mathai	May 2018
2.	Rate Selection for Industrial networks for IEEE802.11g	Ajay Kumar C	Mr. G.Bala Murugan	May 2018
3.	A high band rejection and wide radiation pattern using printed UWB monopole antenna	Gavya Sree U	Dr.S.Vasuhi	May 2018
4.	Tunable multi-wavelength Erbium doped fiber laser using optical fiber delay line	Geetha Priya K	Dr.P.Prakash	May 2018
5.	Analysis of TDMA based opportunistic spectrum access in cognitive radio networks	Gnanasekar S	Dr. M.Kannan	May 2018
6.	Analysis of WDM-FSO system with an efficient modulation technique	Gomathy M	Dr.P.Prakash	May 2018
7.	Design of dual port dual polarized Microstrip antenna for In-band full duplex applications	Gopikasri S	Dr.S.Piramasubramanian	May 2018
8.	Estimation of channel gain in cognitive radio networks	Kayalvizhi E	Mr. G.Bala Murugan	May 2018
9.	Full duplex delay diversity relay transmission using bit interleaved coded OFDM	Kirubavathy T	Mrs. G.Sumithra	May 2018
10.	Cross Modality feature based face recognition for visible light and near infrared image at long distance	Lavanya K.	Mrs. A.Viji	May 2018
11.	Effect of MIMO antennas for enhanced wireless communication	Luke Carishma. J	Mr.J.Logeshwaran	May 2018
12.	Velocity aware handover management in heterogeneous networks	Meena.M	Dr. L.Rajesh	May 2018

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13.	Moving Vehicle detection tracking and classification in the presence of shadows for video surveillance applications	Nidhila.A	Mr. V.Murugan	May 2018
14.	Detection of micro expression recognition from High speed camera	Pavithra R.	Mrs. A.Viji	May 2018
15.	A distributed scheduling approach for QOS improvement in cognitive radio networks	Priyadevi T.	Mr. K.Tamilarasan	May 2018
16.	Design and enhancement of Microstrip patch antenna parameters using defected ground structure for WLAN applications	Ragavi M	Dr.S.Vasuhi	May 2018
17.	Design and analysis of digital to analog convertor using photonic crystals for photonic integrated circuit	Rakshitha M	Dr.Indira Gandhi	May 2018
18.	Impulsive Noise mitigation in Underwater OFDM systems	Ramya G	Mrs. G.Sumithra	May 2018
19.	Performance analysis of a transistor laser for Radio over fiber link	Ruckmani S	Mrs. R.Ramya	May 2018
20.	Analysis of distortion reduction in Transistor laser	Sandhiya.M	Dr.S.Piramasubramanian	May 2018
21.	Characterization of dental pathogens using X-Ray Images	Srikalaivani K	Dr. G.Kavitha	May 2018
22.	Q Learning based routing for MANETs	Srimathi G	Dr.Indira Gandhi	May 2018

DEPARTMENT OF ELECTRONICS ENGINEERING, MIT CAMPUS**Annual Report for the Period 01.07.2017 - 30.06.2018****VLSI DESIGN AND EMBEDDED SYSTEMS**

Sl. No.	Title of the Thesis	Name of the Scholar	Name of the Supervisor	Month & Year of Viva-voce conducted
1.	VLSI Implementation of Cost-Efficient Micro Control Unit For Wireless Body Sensor Networks	Dinesh G	Dr.L.Rajesh	May 2018
2.	VLSI Implementation of Signed And Unsigned Multipliers Using Compressors	Geetha Priya K	Dr.M.Kannan	May 2018
3.	VLSI Implementation of Low Power Radix Based Adder	R.Gowthami	Mr.O.Vignesh	May 2018
4.	Decimal 64 Floating Point Adder/Subtractor Using FPGA IEEE-754-2008	L.K.Lakshman Karthik	Mr.E.Konguvel	May 2018
5.	Lossless Compression Of Medical Images For Telemedicine Application	Agalya S	Mrs.V.Gowthami	May 2018
6.	High Accurate Approximate Floating Point Multiplier For Low Power And High Speed Applications	Anju Bala K	Mr.O.Vignesh	May 2018
7.	Double Logarithmic Arithmetic Unit For Low Power Application	Deepak R	Dr.M.Kannan	May 2018
8.	Face Detection And Recognition Using Neural Network Approach	Deepak Raaj M.	Dr.V.Sathiesh Kumar	May 2018
9.	Design of Fir Filter For Area Efficient Implementation	Dhivya Priya R	Mrs.K.Mariammal	May 2018
10.	Design of Alu Using Quantum Cellular Automata(QCA)	Divya Bharathi.S	Dr.D.Meganathan	May 2018
11.	Stereoscopic Image Stitching Using Content-Preserving Warping	Geethanjali T	Mrs.C.Sridevi	May 2018
12.	Efficient Design of Multirate Fir Filter Utilizing Pipelining And Retiming Techniques	Hajira Banu M	Mrs.K.Mariammal	May 2018

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13.	Leaf Based Plant Classification Using Convolutional Neural Network	Harini S	Dr.V.Sathiesh Kumar	May 2018
14.	Image Recognition Using Falcon Classification	Ilakkiya T	Dr.M.Manikandan	May 2018
15.	Design And Implementation of In-Situ Human-Elephant Conflict Management System	Jagannathan S	Dr.D.Meganathan	May 2018
16.	Analysis of Hybrid PSO-SA Algorithms For FPGA Placement	Jancy P	Dr.S.P.Joy Vasantha Rani	May 2018
17.	Aging Aware Reliable Multiplier Design Using Adaptive Hold Logic And Montgomery Multiplier Algorithm	Joicy R	Dr.M.Kannan	May 2018
18.	BIST Implementation For Static Linearity Testing of An ADC Using Code Width Technique	Karpagam T V	Dr.S.P.Joy Vasantha Rani	May 2018
19.	Implementation of Modular Multiplier in Truncated Multiplication	Karthika K	Mr.N.Jagadeesh Kumar	May 2018
20.	Optimal Design of Parity Preserving New Full Adder/Subtractor Using Reversible Gates	Malavika S M	Mrs.S.Alagu	May 2018
21.	Design of 16X16 Multiplier Using Approximate 15-4 Compressor For Image Processing	Melindo Sudhanraj P	Mrs.S.Alagu	May 2018
22.	Low Power FPGA Design Using Memoization Based Approximate Computing For Image Processing Applications	Monikapreethi S K	Mrs.C.Sridevi	May 2018
23.	VLSI Implementation of FFT Processor Using Area And Power Efficient Approximate Multipliers	Nithiyameenatchi N	Mr.E.Konguvel	May 2018
24.	Traffic Sign Detection And Recognition For Road Sign Inventory Management System	Poomanam S	Dr.M.Kannan	May 2018
25.	Design And FPGA Implementation Of Digital Down Convertor	Premalatha R	Dr.M.Kannan	May 2018
26.	Design Of Truncated Fixed-Width Unsigned Baugh-Wooley Array Multiplier	Rachel L	Mr.N.Jagadeesh Kumar	May 2018

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27.	VLSI Implementation of FFT/IFFT Algorithm Using Gauss Eisenstein Basis	Revathy M	Mr.E.Konguvel	May 2018
28.	Design of Folded Cascode OTA For Two Step Flash Analog to Digital Converter	Sankar M	Dr.D.Meganathan	May 2018
29.	An Efficient Screen Content Video Compression Using Approximate DCT Point Algorithm	Shamini C.S	Dr.M.Manikandan	May 2018
30.	Embedded Lossless Compression of Depth Hints In JPEG Images	Sinduja M	Mrs.V.Gowthami	May 2018
31.	Improving Total Harmonic Distortion of Multilevel Inverter Using Soft Computing Techniques	Sudha V P	Dr.D.Meganathan	May 2018
32.	Design of Radix Number Based Multiplication	Sugunabai T	Mr.O.Vignesh	May 2018
33.	Alexnet Based Realtime Emotion Recognition	Vaishnavi K	Dr.M.Manikandan	May 2018

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Sl. No.	Title of the Thesis	Name of the Scholar	Name of the Supervisor	Month & Year of Viva-voce conducted
1.	Photonic Generation of UWB Signal and its Performance Evaluation over optical Fiber	Amalesh K	Mrs.C.Rimmya	May 2018
2.	A Video Steganography method for Hiding Secret Data in Video Frames Using Discrete Wavelet Transform	Dinesh Chander R	Dr. M.Kannan	May 2018
3.	Real time Movable face recognition and authentication using web camera	Prashanth R	Dr.K.Bhoopthy Bagan	May 2018
4.	Analysis of millimeter wave generation in a digital optical link	Vincy V S	Dr. M.Ganesh Madhan	May 2018
5.	Cyclostationary Spectrum Sensing Using Spectral Correlation Function In Cognitive Radio Networks	Dineshh Kumar C	Dr.P.T.V.Bhuvaneshwari	May 2018
6.	Low Cost feature descriptor for pedestrian protection systems	Durga Devi C	Dr .Mala John	May 2018
7.	Secured Frame work for Cognitive Radio Based Heterogenous Network	Gokulakrishnan K	Dr.P.T.V.Bhuvaneshwari	May 2018
8.	Low- Complexity Modem for Generalized Frequency Division Multiplexing	Karthikeyan P.	Mrs.G.Sumithra	May 2018
9.	Classification of Channel Codes and Estimation of Inter leaver Parameters in Noiseless and Noisy Environment	Kavi Priya M	Dr. P.Indumathi	May 2018
10.	Design of Modified Codeword Design for Space-time Block Coded Spatial Modulation	Kiruthiga B	Dr.P.Indumathi	May 2018
11.	Laser Induced Breakdown Spectroscopy for Food nutrients analysis	Mythili.M	Mr.K Veerappan	May 2018

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12.	Secure Image transmission using OFDM based wireless communication	Priya Rajeswari V	Dr.S.Indira Gandhi	May 2018
13.	A Distributed Scheduling Algorithm for Multi- Channel Dynamic Spectrum Access Networks	Revathy T	Mr.K.Tamilarasan	May 2018
14.	Performance Comparison of MIMO Techniques for Optical Wireless Communications in Indoor Environments	Saranya M	Mrs.C.Rimmya	May 2018
15.	Novel Approach for Video Stabilization in surveillance Application	Siva Ranjani C K	Dr.S.Indira Gandhi	May 2018
16.	A Fusion Work for Traffic Sign Detection Tracking and Recognition for advanced driver assistance systems	Sukanya M	Mr.V.Murugan	May 2018
17.	Superposition Coding for Multirate Broadcast of Digital Data	Udhayakumar S	Dr.P.Indumathi	May 2018
18.	Leaf Disease Recognition Using image Processing	Vignesh.R	Dr.K.Bhoopathy Bagan	May 2018
19.	A Novel Frame Structure for Millimeter Wave Cellular Systems	Vijaya Selvan S	Mrs. Vineetha Mathai	May 2018
20.	Performance analysis of Microdisk laser	Vinitha V	Dr. M.Ganesh Madhan	May 2018

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c. M.Sc. (2 years) programme

Sl. No.	Title of the Thesis	Name of the Scholar	Name of the Supervisor	Month & Year of Viva-voce conducted
Not Applicable				

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d. M.Sc. (5 years) programme

Sl. No.	Title of the Thesis	Name of the Scholar	Name of the Supervisor	Month & Year of Viva-voce conducted
Not Applicable				

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3) Sponsored Research Projects sanctioned during the period **01.07.2017 to 30.06.2018**

Sl. No.	Name of the Project	Name of the Co-ordinator	Amount (Rs. in lakh)	Sponsoring Agency
1.	Identification and ranking of mineral deposits under high pressure condition using Laser induced breakdown spectroscopy technique (01.09.2016 - 31.08.2019)	Dr. V. Sathiesh Kumar	48.80	Science & Engg., Research Board (SERB)
2.	Assessment of Cardiovascular disorders using Image Processing (21.02.2017 - 20.02.2020)	Dr. G. Kavitha	31.51	Science & Engg., Research Board (SERB)

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4) Industrial Consultancy and Testing undertaken during the period **01.07.2017 to 30.06.2018**

Sl. No.	Title of the Consultancy	Name of the Co-ordinator	Amount (Rs. in lakh)	Sponsoring Agency
Not Applicable				

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5) Continuing Education Programmes :

5.1 Training Programmes / Short-term courses and Workshop **conducted** during the period **01.07.2017 to 30.06.2018**

Sl. No.	Title of the Programme	Date	No. of Participants	Name of the Co-ordinator	Sponsoring Agency
1.	One day workshop on, "High Frequency design using ADS" Jointly organized by Department of Electronics Engineering and Keysight Technologies, Bangalore	11 th Aug. 2017	30	Dr.M.Ganesh Madhan, Dr.S.Piramasubramanian and J.Logeswaran	Self
2.	Five days evening Training program on " High Frequency Test and Measurement	28 th Aug. to 1 st Sep. 2017	30	Dr.M.Ganesh Madhan and Dr.S.Piramasubramanian	Self
3.	RTL Design and Functional Verification	11.10.2017	40	Dr.M.Kannan Mr.E.Konguvel	Self
4.	Three days Hands-on training on, "Image Processing, Computer Vision and Machine Learning"	23 rd to 25 th Nov. 2017	30	Dr.V.Sathiesh Kumar Mr.K.Veerappan	Self
5.	Two days workshop on "Embedded System Design Flow on ZYNQ using VIVADO"	5 th to 6 th January 2018	30	Dr.M.Kannan Dr.D.Meganathan Dr.V.Sathiesh Kumar	Self
6.	Five days evening training programme on "Fundamentals of Electromagnetic Fields"	29 th Jan. to 2 nd Feb. 2018	40	Dr.M.Ganesh Madhan Dr.S.Piramasubramanian Mrs.A.Viji	Self
7.	Two Days Workshop on "Internet of Things" (IoT)	23 rd Feb. to 24 th Feb. 2018	30	Dr.M.Kannan Mrs.C.Sridevi Mr.E.Konguvel	UGC

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8.	Advance Digital Design using Cadence	1 st to 3 rd March 2018	35	Dr. M. Kannan Dr. D. Meganathan Mr. E. Konguvel	Self
9.	Two Days Workshop on Hands-on Training in Programming Embedded System	9 th to 10 th March 2018	40	Dr.V.Sathiesh Kumar Dr.P.Prakash Mr.K.Veerappan	DST PURSE
10.	UGC SAP DRS sponsored Two Days Workshop on High Frequency Simulation and Analysis Using Ansoft HFSS	23 rd to 24 th March 2018	30	Dr.M.Ganesh Madhan Dr.S.Piramasubramanian Mr.J.Logeswaran	UGC SAP DRS

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5.2 Training Programmes, Short-term courses and Workshop **attended** by the Faculty members in other Institutions during the period **01.07.2017 to 30.06.2018**

Sl. No.	Name of the Faculty Member and Designation	Date	Title of the programme attended	Venue
1.	Dr.S.Piramasubramanian	30-10-2017 to 13-11-2017.	AICTE sponsored FDP on "Internet of Things for Ambient Assistive Living"	KCG College of Technology, Chennai , India
2.	Dr. V. Sathieshkumar	03.11.2017 to 16.11.2017	Nano instrumentation systems and biomedical nanotechnology	BS Abdur Rahman University
3.	Dr. S. P. Joy Vasantha Rani Assistant Professor	27.11.2017 to 01.12.2017	Professional Ethics and Values	NITTTR Chennai
4.	Dr. D. Meganathan Assistant Professor	27.11.2017 to 01.12.2017	Professional Ethics and Values	NITTTR Chennai
5.	Ms. R.Ramya Teaching Fellow	01-12-17 to 02-12-17	Workshop on "Next Generation Optical Communication and Networks"	SRM University
6.	Dr.M.Kannan Professor	08.03.2018 to 12.04.2018	Foundation Program in ICT for Education	IIT Bombay
7.	Dr.K.Boopathy Bagan Professor	08.03.2018 to 12.04.2018	Foundation Program in ICT for Education	IIT Bombay
8.	Mrs. K. Mariammal Assistant Professor	08.03.2018 to 12.04.2018	Foundation Program in ICT for Education	IIT Bombay
9.	Mr. G. Balamurugan Assistant Professor	08.03.2018 to 12.04.2018	Foundation Program in ICT for Education	IIT Bombay
10.	Mrs C. Rimmya Assistant Professor	08.03.2018 to 12.04.2018	Foundation Program in ICT for Education	IIT Bombay
11.	Dr. S. Vasuhi Assistant Professor	08.03.2018 to 12.04.2018	Foundation Program in ICT for Education	IIT Bombay
12.	Dr. G. Kavitha Assistant Professor	08.03.2018 to 12.04.2018	Foundation Program in ICT for Education	IIT Bombay
13.	Mrs. C. Sridevi Assistant Professor	08.03.2018 to 12.04.2018	Foundation Program in ICT for Education	IIT Bombay

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14.	Dr. V. Sathieshkumar Assistant Professor	08.03.2018 to 12.04.2018	Foundation Program in ICT for Education	IIT Bombay
15.	Mrs.A.Viji Teaching Fellow	08.03.2018 to 12.04.2018	Foundation Program in ICT for Education	IIT Bombay
16.	Mr.L.Rajesh Teaching Fellow	08.03.2018 to 12.04.2018	Foundation Program in ICT for Education	IIT Bombay
17.	Mrs.V.Gowthami Teaching fellow	08.03.2018 to 12.04.2018	Foundation Program in ICT for Education	IIT Bombay
18.	Mrs.S.Alagu Teaching Fellow	08.03.2018 to 12.04.2018	Foundation Program in ICT for Education	IIT Bombay
19.	Mr.E.Konguvel Teaching Fellow	08.03.2018 to 12.04.2018	Foundation Program in ICT for Education	IIT Bombay
20.	Mr.V.Murugan Teaching Fellow	08.03.2018 to 12.04.2018	Foundation Program in ICT for Education	IIT Bombay
21.	Mr.O.Vignesh Teaching Fellow	08.03.2018 to 12.04.2018	Foundation Program in ICT for Education	IIT Bombay
22.	Mr.K.Veerappan Teaching Fellow	08.03.2018 to 12.04.2018	Foundation Program in ICT for Education	IIT Bombay
23.	Mr. G. Balamurugan Assistant Professor	03.05.2018 to 23.05.2018	Elements of Learner-Centric MOOCs	IIT Bombay
24.	Dr.M.Kannan Professor	03-05-2018 to 17-06-2018.	National level Short Course on AICTE approved FDP 201x Pedagogy for Online and Blended Teaching- Learning Process	IIT Bombay
25.	Dr.K.Boopathy Bagan Professor	03-05-2018 to 17-06-2018.	National level Short Course on AICTE approved FDP 201x Pedagogy for Online and Blended Teaching- Learning Process	IIT Bombay
26.	Mrs. K. Mariammal Assistant Professor	03-05-2018 to 17-06-2018.	National level Short Course on AICTE approved FDP 201x Pedagogy for Online and Blended Teaching- Learning Process	IIT Bombay
27.	Mr. G. Balamurugan Assistant Professor	03-05-2018 to 17-06-2018.	National level Short Course on AICTE approved FDP 201x Pedagogy for Online and Blended Teaching- Learning Process	IIT Bombay
28.	Mrs C. Rimmya Assistant Professor	03-05-2018 to	National level Short Course on AICTE approved FDP	IIT Bombay

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		17-06-2018.	201x Pedagogy for Online and Blended Teaching-Learning Process	
29.	Dr. S. Vasuhi Assistant Professor	03-05-2018 to 17-06-2018.	National level Short Course on AICTE approved FDP 201x Pedagogy for Online and Blended Teaching-Learning Process	IIT Bombay
30.	Dr. G. Kavitha Assistant Professor	03-05-2018 to 17-06-2018.	National level Short Course on AICTE approved FDP 201x Pedagogy for Online and Blended Teaching-Learning Process	IIT Bombay
31.	Mrs. C. Sridevi Assistant Professor	03-05-2018 to 17-06-2018.	National level Short Course on AICTE approved FDP 201x Pedagogy for Online and Blended Teaching-Learning Process	IIT Bombay
32.	Mr.L.Rajesh Teaching Fellow	03-05-2018 to 17-06-2018.	National level Short Course on AICTE approved FDP 201x Pedagogy for Online and Blended Teaching-Learning Process	IIT Bombay
33.	Mrs.V.Gowthami Teaching fellow	03-05-2018 to 17-06-2018.	National level Short Course on AICTE approved FDP 201x Pedagogy for Online and Blended Teaching-Learning Process	IIT Bombay
34.	Mrs.S.Alagu Teaching Fellow	03-05-2018 to 17-06-2018.	National level Short Course on AICTE approved FDP 201x Pedagogy for Online and Blended Teaching-Learning Process	IIT Bombay
35.	Mr.E.Konguvel Teaching Fellow	03-05-2018 to 17-06-2018.	National level Short Course on AICTE approved FDP 201x Pedagogy for Online and Blended Teaching-Learning Process	IIT Bombay
36.	Mr.V.Murugan Teaching Fellow	03-05-2018 to 17-06-2018.	National level Short Course on AICTE approved FDP 201x Pedagogy for Online and Blended Teaching-Learning Process	IIT Bombay
37.	Mr.O.Vignesh Teaching Fellow	03-05-2018 to 17-06-2018.	National level Short Course on AICTE approved FDP 201x Pedagogy for Online and Blended Teaching-Learning Process	IIT Bombay
38.	Mr.K.Veerappan Teaching Fellow	03-05-2018 to 17-06-2018.	National level Short Course on AICTE approved FDP 201x Pedagogy for Online and Blended Teaching-	IIT Bombay

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			Learning Process	
39.	Mr. G. Balamurugan Assistant Professor	03-05-2018 to 17-06-2018.	National level Short Course on AICTE approved FDP 201x Pedagogy for Online and Blended Teaching- Learning Process	IIT Bombay

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5.3 Conferences / Seminars / Symposium **conducted** by the Department / Centre / Institute during the period **01.07.2017 to 30.06.2018**

Sl. No.	Names of the Conferences / Seminars / Symposium / conducted	Date	No. of participants	Venue	Sponsoring Agency
Not Applicable					

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6) Faculty Development :

6.1 Conferences / Seminars / Symposium attended by the Faculty Members of Anna University at **National Level** during the period **01.07.2017 to 30.06.2018**

Sl. No.	Faculty Name and Designation	Names of Conferences / Seminars / Symposium / attended	Date	Address of Organised Institute
1.	Dr.M.Ganesh Madhan Professor	Caliber 2017 - Convention on Automation of Libraries in Education and Research Institutions – Re Envisioning Role of Libraries: Transforming Scholarly Communication	02.08.2017 to 04.08.2017	Inflibnet Gujarat in collaboration with Anna University, Chennai
2.	Dr.M.Ganesh Madhan Professor	National level workshop on "High Frequency Design using ADS"	11.08.2017	Dept. of ECE, MIT Campus and Keysight Technologies, Bangalore
3.	Dr. D. Meganathan Assistant Professor	National level workshop on "High Frequency Design using ADS"	11.08.2017	Dept. of ECE, MIT Campus and Keysight Technologies, Bangalore
4.	Mr. E. Konguvel Teaching Fellow	"Make In India – Transforming Research to Reality"	05.09.2017	Anna University, Chennai
5.	Dr. M. Kannan Associate Professor	National level seminar on "RTL Design and Functional Verification"	11.10.2017	Anna University, Chennai, India
6.	Dr. D. Meganathan Assistant Professor	National level seminar on "RTL Design and Functional Verification"	11.10.2017	Anna University, Chennai, India
7.	Dr. S. P. Joy Vasantha Rani Assistant Professor	National level seminar on "RTL Design and Functional Verification"	11.10.2017	Anna University, Chennai, India
8.	Dr. A. Viji Teaching Fellow	National level seminar on "RTL Design and Functional Verification"	11.10.2017	Anna University, Chennai, India
9.	Mr. E. Konguvel Teaching Fellow	National level seminar on "RTL Design and Functional Verification"	11.10.2017	Anna University, Chennai, India
10.	Mr. O. Vignesh Teaching Fellow	National level seminar on "RTL Design and Functional Verification"	11.10.2017	Anna University, Chennai, India

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11.	Dr.M.Ganesh Madhan Professor	IEEE workshop: Organised by University Library and IEEE professional communication society	16.11.2017	Anna University, Chennai
12.	Ms.S.Alagu Teaching Fellow	Three days hands on training in Image Processing, computer vision and machine learning (2nd IPCVML'17)	23.11.2017 to 25.11.2017	Dept. of ECE, MIT Campus
13.	Mrs.K.Mariammal Assistant Professor	Workshop on "Embedded System Design Flow on ZYNQ using VIVADO"	05.01.2018 to 06.01.2018	Dept. of ECE, MIT Campus
14.	Mr. E. Konguvel Teaching Fellow	National level workshop on "Intellectual Property Rights"	01.02.2018	Anna University, Chennai, India
15.	Dr.G.Kavitha Assistant Professor	One day awareness workshop on "Intellectual Property Rights"	02.02.2018	MIT Campus, Anna University, Chennai
16.	Dr.P.T.V.Bhuvanewari Professor	Two Days Workshop on Internet of Things- IoT	23.02.2018 to 24.02.2018	Dept. of ECE, MIT Campus
17.	Mrs.K.Mariammal Assistant Professor	Two Days Workshop on Internet of Things- IoT	23.02.2018 to 24.02.2018	Dept. of ECE, MIT Campus
18.	Mr.G.Balamurugan Assistant Professor	Two Days Workshop on Internet of Things- IoT	23.02.2018 to 24.02.2018	Dept. of ECE, MIT Campus
19.	Ms.Vineetha Mathai Teaching Fellow	Two Days Workshop on Internet of Things- IoT	23.02.2018 to 24.02.2018	Dept. of ECE, MIT Campus
20.	Mr.V.Murugan Teaching Fellow	Three Days Workshop on "Machine Learning Tools, Techniques and Applications"	23.02.2018 to 25.02.2018	Department of Computer Science and Engineering, College of Engineering Guindy, Anna University
21.	Ms.S.Alagu Teaching Fellow	Three Days Workshop on "Machine Learning Tools, Techniques and Applications"	23.02.2018 to 25.02.2018	Department of Computer Science and Engineering, College of Engineering Guindy, Anna University
22.	Dr.S.P.Joy Vasantha Rani Assistant Professor	Workshop on "Three days workshop on "Advanced Digital Design Flow using Cadence"	01.03.2018 to 03.03.2018	Dept. of ECE, MIT Campus
23.	Dr.V.Sathiesh Kumar Assistant Professor	Workshop on "Three days workshop on "Advanced	01.03.2018 to	Dept. of ECE, MIT Campus

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		Digital Design Flow using Cadence"	03.03.2018	
24.	Mrs.K.Mariammal Assistant Professor	Workshop on "Three days workshop on "Advanced Digital Design Flow using Cadence"	01.03.2018 to 03.03.2018	Dept. of ECE, MIT Campus
25.	Ms.R.Ramya Teaching Fellow	Two days hands on training on "Programming embedded system"	09.03.2018 to 10.03.2018	Dept. of ECE, MIT Campus
26.	Ms.Vineetha Mathai Teaching Fellow	Two days hands on training on "Programming embedded system"	09.03.2018 to 10.03.2018	Dept. of ECE, MIT Campus
27.	Dr.M.Ganesh Madhan Professor	Two days workshop on "High Frequency simulation and Analysis using Ansoft HFSS"	23.03.2018 to 24.03.2018	Department of Electronics Engineering, MIT campus, Anna University, under UGC-DRS-SAP II

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6.2. Conferences / Seminars / Symposium / Workshop attended by the Faculty Members of Anna University at **International Level** during the period **01.07.2017 to 30.06.2018**

Sl. No.	Faculty Name and Designation	Name of the Programme attended	Name of the Country visited	Name of Travel grant used	Date
Not Applicable					

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6.3. Lectures delivered by the Anna University Faculty members at other Institute during the period **01.07.2017 to 30.06.2018**

Sl. No.	Faculty Name	Designation	Name of the programme	Address of Organized Institute	Date
1.	Dr.M.Ganesh Madhan	Professor	Faculty Development Training Program on Optical Communications (EC 6702)	Department of Electronics and Communication Engg., Namakkal	07.07.2017
2.	Dr.V.Sathiesh Kumar	Assistant Professor	Lecture in Hands on training Programme on "Embedded C programming of PIC microcontrollers"	DMI college of Engineering, Chennai	20.07.2017
3.	Dr.V.Sathiesh Kumar	Assistant Professor	Lecture in Two days Hands-on training programme on "Image processing in OpenCV using Python"	Sri Ramakrishna Engineering College, Coimbatore, Coimbatore	17.08.2017
4.	Mrs.G.Sumithra	Assistant Professor	Lecture on "Telecommunication"	Anna University - Kancheepuram,	14.09.2017
5.	Dr.V.Sathiesh Kumar	Assistant Professor	Invited lecture on "Medical Image Processing Techniques in Clinical Research and Health care"	KCG College of Technology, Chennai	16.09.2017
6.	Dr.V.Sathiesh Kumar	Assistant Professor	Lecture in Two day hands-on training on "Image Processing using OpenCV"	SRM university-Ramapuram Campus, Chennai	22.09.2017
7.	Dr.V.Sathiesh Kumar	Assistant Professor	Guest Lecture on "Raspberry Pi v3.3 Basic Programming"	Kamaraj Engineering College, Virudhunagar	13.10.2017
8.	Dr.G.Kavitha	Assistant Professor	Emerging trends and future perspective in image processing and computer vision	Sri SaiRam Engineering college, Chennai	04.01.2018

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9.	Mr.E.Konguvel	Teaching Fellow	Lecture on "VLSI Design"	DMI College of Engineering, Chennai	25.01.2018
10.	Mrs.R.Ramya	Teaching Fellow	Linear Integrated Circuits	St. Joseph College of Engineering, Chennai	28.02.2018
11.	Mrs.K.Mariammal	Assistant Professor	Lecture on "Digital Signal Processing"	DMI College of Engineering, Palanchur, Chennai	16.03.2018
12.	Mrs.K.Mariammal	Assistant Professor	Lecture on "Discrete Time Systems and Signal Processing"	ST.JOSEPH College of Engineering, Sriperumbudur, Chennai	04.04.2018

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6.4 Honours / Awards received from State / National / International bodies by the AU Faculty Members during the period **01.07.2017 to 30.06.2018**

Sl. No.	Name of the Faculty Member	Designation	Name of the Honours / Awards	Name of the Institute / Organization issued the Honours / Awards
1.	Dr. P.T.V.Bhuvaneswari	Professor	Best Paper Award	NIT Megalaya, Shillong
2.	Dr. P.T.V.Bhuvaneswari	Professor	Springer Best Paper Award	VIT University
3.	Dr.V.Sathiesh Kumar	Assistant Professor	Fellowship on International Travel support scheme - Science and Engineering Research Board (SERB) - Participate in International Conference on Laser Ablation held at Marseille, France during 3 - 8th September 2017.	Science and Engineering Research Board (SERB)
4.	Dr.V.Sathiesh Kumar	Assistant Professor	"Best Paper Award" for the paper presented by Sumathi. J and Sathiesh Kumar V, "Analysis of salt samples using laser induced breakdown spectroscopy", 2nd Meghnad Saha Memorial International Symposium cum Workshop on Laser Induced Breakdown Spectroscopy (MMISLIBS-II), 19-21th February 2018.	University of Allahabad
5	Dr.G.Kavitha	Assistant Professor (Sr.Grade)	Certificate of outstanding contribution in Reviewing in recognition of the contributions made to the quality of the Journal	Computers in Biology and Medicine, Elsevier, Amsterdam, The Netherlands.
6.	Dr.M.Ganesh Madhan	Professor	Elected as FELLOW of IETE (India) May 2018	IETE, India

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7) Details of Visitors to the Departments/Centres/Institute other than Anna University Faculty during the period **01.07.2017 to 30.06.2018**

Sl. No.	Name of the visitor	Designation	Address of office / organization	Purpose of Visit	Date of visit
1.	Dr.S.P.Dhanavel	Professor	IIT Madras	For delivering a guest lecture to students	19.07.2017
2.	Mr. Neelakantan	Director	Buildpro	For delivering a guest lecture to students	29.08.2017 and 30.08.2017
3.	Mr. Hareesh Janakiraman	Lead - Technical	Texas Instruments	A motivating Guest Lecture	03.10.2017
4.	Dr.V.Ganeshan	Ex. Vice-Chancellor	Central Institute of English & Foreign Languages University	A motivating Guest Lecture	19.12.2017
5.	Dr. R. Balasubramaniam	Associate Professor	IIT Roorkee	Research Challenges in Image and Video Analytics	04.07.2018

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8) New Equipment / Instruments purchased costing more than **Rs.1.00 lakh** during the period **01.07.2017 to 30.06.2018**

Sl. No.	Name of the New Equipment / Instrument purchased	Uses of Equipment / Instrument	Purchase cost (more than One Lakh)
1.	Spectrometer	<ul style="list-style-type: none">• Used to study about the spectral (Wavelength vs Intensity) characteristics of laser induced plasma on samples irrespective of their states (solid, liquid or gas)an resolution of 0.47 nm.	2,47,541/-
2.	Photomultiplier Tube	<ul style="list-style-type: none">• Research purpose	1,64,876/-
3.	Segment CMR Software	<ul style="list-style-type: none">• Research purpose	2,98,545/-
4.	RF Signal Generator	<ul style="list-style-type: none">• To generate Sine and modulated signals	2,85,000/-
5.	Cadence University Bundle (Software)	<ul style="list-style-type: none">• Research and academic purpose	18,60,000/-
6.	Optisystem Software	<ul style="list-style-type: none">• Research and academic purpose	6,25,000/-
7.	Image Processing Software (3D Doctor)	<ul style="list-style-type: none">• For Research purpose	3,30,400/-
8.	Pulsed Laser System	<ul style="list-style-type: none">• Identification and ranking of the elemental composition in laser induced plasma	22,70,298/-

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9) Research Papers Presented in **National** Conferences / Seminars / Symposium / Workshop during the period **01.07.2017 to 30.06.2018**

Sl. No.	Faculty Name and Designation	Title of the Paper presented	Name of the Conference and Venue	Date
1.	Dr.K.Mariammal Assistant Professor	Analysis of ECG Signal for Heart Rate Monitoring System	National level conference on 4th National Conference on "Recent Trends in Instrumentation and Control (RTIC – 2018), organised by Department of Instrumentation Engineering, MIT Campus, Anna University	02-03-2018 to 03-03-2018
2.	Ms.A.Viji Teaching Fellow	Detection of Micro Expression Recognition from High Speed Camera	8th National Conference on Communication and Information Engineering (ICTACT-2018) organized by DMI College of Engineering	18 March 2018
3.	Dr.P.Prakash Associate Professor	Analysis of WDM-FSO System Under Various Weather Condition	10th National Conference On Signal Processing Communication & VLSI Design (NCSCV'18), organised by Anna University Regional Campus, Coimbatore	06.04.2018 to 07.04.2018
4.	Dr.P.Prakash Associate Professor	Tunable Multi wavelength Erbium-Doped Fiber Laser Using Optical Delay Line	10th National Conference On Signal Processing Communication & VLSI Design (NCSCV'18), organised by Anna University Regional Campus, Coimbatore	06.04.2018 to 07.04.2018
5.	Mr.G.Balamurugan Assistant Professor	Anti-Jamming Communication Using Chaotic Frequency Hopping	10th National Conference On Signal Processing Communication & VLSI Design (NCSCV'18), organised by Anna University Regional Campus, Coimbatore	06.04.2018 to 07.04.2018
6.	Dr.S.Vasuhi Assistant Professor	Integrated Microstrip Patch Antenna with Defected Ground	10th National Conference On Signal Processing Communication & VLSI	06.04.2018 to 07.04.2018

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		Structure for WLAN Applications	Design (NCSCV'18), organised by Anna University Regional Campus, Coimbatore	
7.	Mr.V.Murugan Teaching Fellow	YCbCr and W4 based algorithms for moving object detection and Shadow Removal	10th National Conference On Signal Processing Communication & VLSI Design (NCSCV'18), organised by Anna University Regional Campus, Coimbatore	06.04.2018 to 07.04.2018
8.	Mr.V.Murugan Teaching Fellow	Restoration of License Plate Image using Blur Kernel Estimation By sparsity approach	10th National Conference On Signal Processing Communication & VLSI Design (NCSCV'18), organised by Anna University Regional Campus, Coimbatore	06.04.2018 to 07.04.2018

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- 10) Research Papers Presented in **International** Conferences / Seminars / Symposium / Workshop during the period **01.07.2017 to 30.06.2018**

Sl. No.	Faculty Name and Designation	Title of the Paper presented	Name of the Conference and Venue	Date
1.	Dr.D.Meganathan Asst. Professor (Sr. Gr)	QCA Based FIR Serial Multiplier using cut-set algorithm	International level conference on IEEE- Nano-2017, organised by Department of Electrical and Computer Engineering, University of Pittsburgh, USA	25.07.2017 to 28.07.2017
2.	Dr.M.Ganesh Madhan Professor	A Compact Passive Beam Forming Network for Base Station Antenna	Intl Conference on Micro electronics Devices Circuits and Systems, organised by VIT University, Vellore,	10.08.2017 to 12.08.2017
3.	Dr.V.Sathiesh Kumar Assistant Professor	Investigation of minerals using Laser Induced Breakdown Spectroscopy techniques under high pressure conditions	International level conference on COLA 2017, organised by Aix-Marseille Universite, France, France	03.09.2017 to 08.09.2017
4.	Dr.V.Sathiesh Kumar Assistant Professor	Investigation of optimal parameters for remote soil testing using LIBS	International level conference on COLA 2017, organised by Aix-Marseille Universite, France, France	03.09.2017 to 08.09.2017
5.	Dr.V.Sathiesh Kumar Assistant Professor	Identification of nutrients in plant materials using laser induced breakdown spectroscopy technique	International level conference on COLA 2017, organised by Aix-Marseille Universite, France, France	03.09.2017 to 08.09.2017
6.	Dr.G.Kavitha Assistant Professor (Sr. Gr.)	Detection of Schizophrenia disorder from ventricle region in MR brain images via Hu moment invariants using random forest	International conference on Advanced Computational and Communication Paradigms, organised by Sikkim Manipal University, Sikkim	08.09.2017 to 10.09.2017
7.	Dr.G.Kavitha Assistant Professor (Sr. Gr.)	Local region with Optimized Boundary driven	International conference on Advanced	08.09.2017 to 10.09.2017

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		level set based segmentation of Myocardial ischemic cardiac MR images	Computational and Communication Paradigms, organised by Sikkim Manipal University, Sikkim	
8.	Dr.V.Sathiesh Kumar Assistant Professor	Analyzing ConvNet Depth for Deep Face Recognition	International level conference on CVIP 17, organised by IIT Roorkee, India	09.09.2017 to 12.09.2017
9.	Dr.V.Sathiesh Kumar Assistant Professor	Hybrid Feature Descriptors to Detect Face Spoof Attacks	International level conference on ISTA 2017, organised by Manipal University, India	13.09.2017 to 16.09.2017
10.	P.T.V.Bhuvanewari Professor	Multiple Linear Regression Based prediction to detect hexavalent chromium in Drinking water	4th International Conference on Computational Intelligence in Data Mining (ICCIDM-2017), organised by Veer Surendra Sai University of Technology (VSSUT), Government of Odisha, Burla-768018, Sambalpur, Odisha, India	11.11.2017 to 12.11.2017
11.	P.T.V.Bhuvanewari Professor	Suitability Analysis of Fractal Compression Technique for Medical Images	9th International Conference on Advanced Computing (ICoAC'17), Department of Computer Technology, Anna University, Chennai	14.12.2017 to 16.12.2017
12.	Dr.G.Kavitha Assistnt Professor (Sr. Gr.)	Analysis and Estimation of Brain tissue atrophy using Magnetic resonance images	9th International Conference on Advanced Computing (ICoAC'17), Department of Computer Technology, Anna University, Chennai	14.12.2017 to 16.12.2017
13.	Mr.K.Veerappan Teaching Fellow	Laser Induced Breakdown Spectroscopy for Plant Nutrient Analysis	2nd Maghnad Saha Memorial International Symposium cum Workshop on Laser Induced Breakdown Spectroscopy (MMISLIBS-II), University of Allahabad	19.02.2018 to 21.02.2018

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14.	Dr.V.Sathiesh Kumar Assistant Professor	Analysis of salt samples using laser induced breakdown spectroscopy	2nd Maghnad Saha Memorial International Symposium cum Workshop on Laser Induced Breakdown Spectroscopy (MMISLIBS-II), University of Allahabad	19.02.2018 to 21.02.2018
15.	Mr.G.Balamurugan Assistant Professor	Energy Efficient Resource Allocation in Cognitive Radio Networks	International Conference on Computing, Communication And Drastic Innovations In Energy Thrive (IC3DIET-18), organised by University College of Engineering Panruti,	28.02.2018 to 01.03.2018
16.	Dr.P.Indumathi Associate Professor	Channel Gain Estimation for Spectrum Sharing in Cognitive Radio Networks using Relaying Techniques	International Conference on Computing, Communication And Drastic Innovations In Energy Thrive (IC3DIET-18), organised by University College of Engineering Panruti,	28.02.2018 to 01.03.2018
17.	Dr.S.Indira Gandhi Associate Professor	Performance Analysis of Constraint Based Rouring For Aeronautical Adhoc Networks	1st International Conference on Information, Embedded and Communication Systems , organised by St. Joseph College of Engineering	07.03.2018
18.	Dr.S.Indira Gandhi Associate Professor	Video Stabilization Based on LBP Feature Descriptor	1st International Conference on Information, Embedded and Communication Systems , organised by St. Joseph College of Engineering	07.03.2018
19.	Mrs.C.Sridevi Assistant Professor	VLSI Architecture - A Deblocking Filter for High frequency Video Coding (HEVC) Systems	International Conference on Advanced Information and Communication Technology - ICAIC'2018, Karpagam College of Engg., Coimbatore	08.03.2018 to 09.03.2018

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20.	Dr.S.Vasuhi Assistant Professor	A High Band Rejection And Wide Radiation Patterns Using Ultra wideband Monopole Antenna	6 th International conference on Contemporary Engineering and Technology ICCET 2018 organised by Prince Shri Venkateshwara Padmavathy Engineering College and OSIET, Chennai	10.03.2018 to 11.03.2018
21.	Dr.K.Mariamammal Assistant Professor	Heart Beat Monitoring System	6th International Conference on Contemporary Engineering and Technology-2018, organised by Prince Shri Venkateshwara Padmavathy Engineering College and OSIET, Chennai	10.03.2018 to 11.03.2018
22.	Dr.K.Mariamammal Assistant Professor	Design of Multirate Filter Structures for Sampling Rate Conversion	6th International Conference on Contemporary Engineering and Technology-2018, organised by Prince Shri Venkateshwara Padmavathy Engineering College and OSIET, Chennai	10.03.2018 to 11.03.2018
23.	Dr.S.Indira Gandhi Associate Professor	1X4 and 1X8 Photonic Crystal Ring Resonator based Optical Splitters	4th IEEE International Conference on Devices, Circuits and Systems (ICDCS'18), Karunya Institute of Technology and Sciences (Deemed to be University), Coimbatore	16.03.2018 to 17.03.2018
24.	P.T.V.Bhuvanewari Professor	MLR Model based sensor reduction for remote Cr6 detector	4th IEEE International Conference on Devices, Circuits and Systems (ICDCS'18), Karunya Institute of Technology and Sciences (Deemed to be University), Coimbatore	16.03.2018 to 17.03.2018
25.	Mr.V.Murugan Teaching Fellow	Object detection and shadow removal	International Conference(ICAETS18) organised by	16.03.2018 to 17.03.2018

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		techniques using Histogram based approaches for Video Surveillance	Dhaanish Ahmed College of Engineering, Chennai	
26.	Dr.S.Indira Gandhi Associate Professor	Photonic Crystal Ring resonator based 1X4 Optical Power Splitter	International level conference on IEEE International Conference on , organised by Crescent Institute of Science and Technology	20.03.2018 to 22.03.2018
27.	Dr.S.P.Joy Vasantha Rani Assistant Professor (Sr. Gr.)	Effect of Ramp slope error in an on-chip ADC BIST	International level conference on (4th) Science and Technology (ICONSET), organised by Jeppiar Engineering College	23.03.2018 to 24.03.2018
28.	Dr.S.P.Joy Vasantha Rani Assistant Professor (Sr. Gr.)	Hybrid PSO-SA Algorithm for FPGA Placement	International level conference on (4th) Science and Technology (ICONSET), organised by Jeppiar Engineering College	23.03.2018 to 24.03.2018
29.	Mr.G.Balamurugan Assistant Professor	Estimation of Primary Channel Gain for Spectrum Sharing in Cognitive Radio Networks	International Conference on Smart Structures and Systems (ICSSS 2017), organised by Saveetha Engineering College,	28.03.2018
30.	Mrs.S.Alagu Teaching Fellow	Optimal Design of Parity preserving Full Adder/Subtractor using Reversible Gate	International Conference on Smart Structures and Systems (ICSSS 2017), organised by Saveetha Engineering College,	28.03.2018
31.	Mrs.S.Alagu Teaching Fellow	Design of Multiplier using Approximate 15-4 Compressor	International Conference on Smart Structures and Systems (ICSSS 2017), organised by Saveetha Engineering College,	28.03.2018
32.	Mrs.C.Sridevi Assistant Professor	Real Time Haze Removal Using Dark Channel Prior (DCP)	8th International conference on Science and Innovative Engineering, Jawahar Engineering College	01.04.2018

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33.	Mr.K.Verappan Teaching Fellow	Nutrient profile analysis in turmeric (Curcuma Longa) using Laser induced breakdown spectroscopy	8th International conference on Science and Innovative Engineering, Jawahar Engineering College	01.04.2018
34.	Mr.V.Murugan Teaching Fellow	A Fusion Work for Traffic Sign Detection, Tracking and Recognition for Advanced Driver Assistance Systems	8th International conference on Science and Innovative Engineering, Jawahar Engineering College	01.04.2018
35.	Dr.D.Meganathan Asst. Professor (Sr. Gr)	A non-invasive method for rotor bar fault diagnosis in three-phase squirrel cage induction motor with advanced signal processing technique	9th International Conference on Power Electronics, Machines and Drives, Liverpool, UK	17.04.2018 to 19.04.2018
36.	Mrs.C.Sridevi Assistant Professor	Memoization based Approximate computing on Low Power FPGA Design For Image Processing Applications	4th International Conference on Science Engineering and Technology, ICONSET '18, Jeppiaar Engg. College, Chennai	23.03.2018 to 24.03.2018
37.	Dr.K.Mariammal Assistant Professor	Farrow Based Area and Speed Efficient FIR Filter Design	3rd International Conference on Recent Trends in Engineering and Technology (ICRTET-2018), organised by St.Joseph's Institute of Technology,	04.05.2018 to 05.05.2018
38.	Dr.V.Sathiesh Kumar Assistant Professor	Leaf based plant recognition system using conventional image descriptors and neural networks	3rd International Conference on Recent Trends in Engineering and Technology (ICRTET-2018), organised by St.Joseph's Institute of Technology	04.05.2018 to 05.05.2018
39.	Mrs.C.Rimmya Assistant Professor	Photonic Generation of	3rd International Conference on Recent	04.05.2018 to

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		UWB Signal and Transmission over Optical Fiber	Trends in Engineering and Technology (ICRTET-2018), organised by St.Joseph's Institute of Technology	05.05.2018
40.	Dr.V.Sathiesh Kumar Assistant Professor	LBP based automatic authorized entry and surveillance systems for residence	3rd International Conference on Recent Trends in Engineering and Technology (ICRTET-2018), organised by St.Joseph's Institute of Technology	04.05.2018 to 05.05.2018
41.	Mrs.G.Sumithra Assistant Professor	Low Complexity receiver for Generalized Frequency Division Multiplexing	3rd international conference on recent trends in engineering and technology(ICRTET - 2018) , St.Joseph's Institute Of Technology	04.05.2018 to 05.05.2018
42.	Dr.V.Sathiesh Kumar Assistant Professor	Feature matching based book detection system	3rd International Conference on Recent Trends in Engineering and Technology (ICRTET-2018), organised by St.Joseph's Institute of Technology	04.05.2018 to 05.05.2018
43.	Mr.K.Veerappan Teaching Fellow	Liveliness detection in Facial Recognition Systems	3rd International Conference on Recent Trends in Engineering and Technology (ICRTET-2018), organised by St.Joseph's Institute of Technology	04.05.2018 to 05.05.2018
44.	Dr.K.Boopathy Bagan Professor	Distance Estimation based energy efficient protocol for wireless sensor network	International conference on Pattern recognition and Artificial Intelligence, organised by concordia university, canada	13.05.2018 to 17.05.2018
45.	Dr.P.Prakash Associate Professor	Performance comparison on O-CDMA and M-code keying Technique to enhance Optical Security	International Conference on Science and Innovative Engineering (ICSIE) held in Singapore	20.05.2018 to 21.05.2018

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46.	Dr.D.Meganathan Asst. Professor (Sr. Gr)	Diagnosis of Bearing Outer Race Faults using a low-cost non- contact method with advanced wavelet transform	Electronics-2018 Conference, Lithuania, UK	18.06.2018 to 20.06.2018
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11) Books / Journals Published during the period 01.07.2017 to 30.06.2018

a. Books published

Sl. No.	Name of the Book / Title	Author's Name	Name of the Publisher	Month & Year
1.	Enhanced routing techniques for energy management in WSN	X Mercilin Raajini, P.Indumathi and R Raja Kumar	Scholar's Press, ISBN NO-978-3-330-65385-6	August 2017

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b. Journals published

International Journal

Sl. No.	Name of the Title	Author's Name	Name of the Publisher	Month & Year
1.	Numerical Analysis of Extinction Ratio Improvement in Gain Lever Laser Diode	S.Piramasubramanian and M.Ganesh Madhan	Opto Electronics and Advanced Materials - Rapid Communications, INOE publishing, Romania	(2017) Vol.11 Iss.5, pp.285 - 288.
2.	Analysis of single band and dual band grapheme based patch antenna for terahertz region	G.Jemima Nissiyah and M.Ganesh Madhan	Physica E:Low dimensional systems and Nanostructures, Elsevier	(2017) Vol. 94,pp.126 -131.
3.	Optimum electrical pulse characteristics for efficient gain switching in QCL	P.Ashok and M.Ganesh Madhan	OPTIK – International Journal of Light and Electron Optics, Elsevier GmbH, Elsevier	(2017) Vol.146,pp.51-62.
4.	A simplified equivalent circuit model for the study of squeezed film effects in a capacitive MEMS accelerometer	C.Kavitha and M.Ganesh Madhan	Opto Electronics and Advanced Materials , INOE publishing, Romania	(2017) Vol.19 Iss.11-12 December 2017,pp.719-728.
5.	Joint Time Frequency Channel Estimation in MIMO-OFDM Using Firefly Heuristic	R.Meenakshi, and P.Indumathi	Research Journal of Biotechnology	(2017) Special Issue pp.242-251
6.	Spectrally Efficient Time – Frequency Training Multiple-Input-Multiple-Output Orthogonal Frequency Division Multiplexing	R.Meenakshi, and P.Indumathi	Journal of Computational and Theoretical Nano science	(2017) Vol. 14, 5046–5053
7.	FPGA implementation of FFT architecture using Modified Radix-4 algorithm	M. Kannan, E. Konguvel, J. Madhumitha, M. Mohamed Kamil Ashiq & K. Abhishek	Asian Journal of Research in Social Sciences and Humanities	(2017) 2249-7315, Vol. 7, No. 2, pp. 47 – 57

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8.	Petri Net Based Reliable Work Flow Framework for Nephrology Unit in Hospital Environment	P. T. V. Bhuvanewari, M. Amaliya Princy	International Journal on Recent and Innovation Trends in Computing and Communication (IJRITCC), published by Auricle Technologies Pvt. Ltd.	(2017) Vol. 5, Issue 7, pp. , PP: 858 - 864
9.	SOC Module for IOT Based Smart Water Monitoring	R. Padmanabhan, D. Elamukil, P. T. V. Bhuvanewari	International Journal on Recent and Innovation Trends in Computing and Communication (IJRITCC), ISSN: 2321-8169, , published by Auricle Technologies Pvt. Ltd	(2017) Vol. 5, Issue 7, pp. 865 - 870
10.	Q-Learning-Based Optimized Routing in Biomedical Wireless Sensor Networks	Jose Anand, J. Raja Paul Perinbam & D. Meganathan	IETE Journal of Research, published by Taylor and Francis	(2017) Vol. 63, Issue 1, pp. 89-97
11.	Achievement of Cascaded Multirate FIR Filter Structures with CSE and CSD	Mariammal. K, Joy Vasantha Rani. SP, Kithikadevi. N	Journal of Electrical Engineering, published by Politehnica Publishing House	(2017) Vol. 17, Issue 2, pp. 1 - 13
12.	"Performance Analysis of resource Allocation with successive group in Dense Femto cell Networks	Rajesh L, Bhoopathy Bagan K, K Tamilarasan	International Journal on Recent and Innovation Trends in Computing and Communication	(2017) Vol. 5, Issue 5, pp. 666-672
13.	Diagnosis of Schizophrenia Disorder in MR Brain Images Using Multi-objective BPSO Based Feature Selection	Latha. M and Kavitha. G	Journal of Medical and Biological Engineering, Springer	(2017) https://doi.org/10.1007/s40846-017-0355-9

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14.	Dynamic Load Balancing in LTE-A Networks using Bio-inspired Optimization algorithms	A.Saraswathi Priyadharshini and P.T.V.Bhuvanewari	International Journal of Wireless and Mobile Communication for Industrial Systems, published by GV School Publication	Vol. 4, No. 1 (2017), pp. 31-42
15.	Design of Linear Ramp generator and Digital ORA for an area efficient high speed ADC BIST	M.Senthil Sivakumar and S.P.Joy Vasantha Rani	Journal of Electrical Engineering	(2017)
16.	Study of Various Algorithms on PAPR Reduction in OFDM System	R. Raja Kumar and P. Indumathi	International Journal of Applied Engineering Research ISSN 0973-4562	Volume 12, Number 19 (2017) pp. 8615-8619.
17.	Linear precoding using transmitter site channel estimation for MIMO-OFDM systems	R. Raja Kumar and P. Indumathi	International Journal of Applied Engineering Research ISSN 0973-4562	Volume 12, Number 19 (2017) pp. 8609-8614
18.	Anti-jamming communication for body area network using chaotic frequency hopping	Balamurugan Gopalakrishnan and Marcharla Anjaneyulu Bhagyaveni,	Healthcare Technology Letters, published by IET.	Vol. 4, Issue 6, pp. 233 -237 (2017).
19.	Remote Examination of Exudates-Impact of Macular Oedema	Uma Punniyamoorthy and P.Indumathi	IET- Healthcare Technology Letters, published in Open Access	doi: 10.1049/htl.2017.0026 pp:1-6
20.	Performance Evaluation of Simple CSRZ-DQPSK Transmitter Configurations for 20 Gbps PON Applications	Rimmya Chitravelu , Ganesh Madhan Muthu	Turkish Journal of Electrical Engineering and Computer Sciences, published by Tubitak Scientific & Technical Research Council Tu	Vol. 25, pp. 1263-1277 (2017).
21.	An Object Recognize skill for	Rajesh .L, Tamilarasan K, Kamini	International Journal of	Vol. 7, Issue 10, pp. 74-79 (2017).

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22.	Back propagation Network based brain tumor classification in magnetic resonance images	L.Rajesh, Kaaviya	i-manager's journal on computer science	Vol. 5, Issue 1, pp. 14-21 (2017).
23.	Segmentation and texture analysis of structural biomarkers using neighborhood-clustering- based level set in MRI of the schizophrenic brain	Manohar Latha and Ganesan Kavitha	Magnetic Resonance Materials in Physics, Biology and Medicine Springer	vol 30, no:2, 2017
24.	Regression model for handover control parameter configuration in LTE-A networks	Saraswathi Priyadharshini A and Bhuvaneshwari P.T.V	Computers and Electrical Engineering, published by Elsevier	pp. 1-17 (2018).
25.	Interdependency Analysis of Inter-Site-Distance on Configuration of Handover Control Parameter in LTE-A HetNet	A.Saraswathi Priyadharshini and P.T.V.Bhuvaneshwari	Wireless Personal Communications, Springer	April 2018
26.	Energy and Power Analysis of RPL under Topology Variations	V.Gokila Priya, P.T.V.Bhuvaneshwari, and A.Saraswathi Priyadharshini	International Journal of Advanced Research Trends in Engineering and Technology (IJARTET)	Vol. 5, Issue 4, April 2018.
27.	A Survey on FFT/IFFT Processors for Next Generation Telecommunication systems	E. Konguvel and M. Kannan	Journal of Circuits, Systems and Computers	(2018) 1793-6454, Vol. 27, No. 3, pp. 1830001 (21 pages)
28.	Compact 3 × 3 wavelength routing for photonic integrated circuits	Sridarshini, T. and S. Indira Gandhi	Photonic Network Communications	Jan 2018, pp : 1-14
29.	Video stitching using interacting	K. Krishnakumar, S. Indira Gandhi	Multimedia Tools and	2018

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	multiple model based feature tracking		Applications, published by Springer.	
30.	Design and analysis of 1xN symmetrical optical splitters for photonic integrated circuits	T.Sridarshini, S. Indira Gandhi, M.Rakshitha	Optik, published by Elsevier.	Vol. 169, pp. 321-331 (2018).
31.	Effect of quantum well position on the distortion characteristics of transistor laser	S.Piramasubramanian, M.Ganesh Madhan, V. Radha, S.M.S. Shajithaparveen and G. Nivetha,	Optics Communication s, published by ELSEVIER.	Vol. 414, Issue 1, pp. 22-28 (2018).
32.	Performance analysis of a digital fiber optic link incorporating gain-levered laser diode transmitter	S.Piramasubramania, M.Ganesh Madhan and A.Sindhuja,	International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, published by John Wiley & Sons, Ltd..	pp. 1-18 (2018).
33.	An area efficient high frequency Digital Built-in Self Test for Analogue to Digital Converter	M.Senthil Sivakumar & S.P.Joy Vasantha Rani,	International Journal of Electronics, published by Taylor and Francis.	Vol. 105, Issue 8, pp. 1319-1330 (2018).
34.	Numerical Analysis of Bistability and Chaos in Bisection Laser Diode	P.Deepiha C.Rimmya, S.Piramasubramanian and M.Ganesh Madhan	International Journal of Pure and Applied Mathematics	Volume 119 No. 7 2018, 1127-1132.
35.	A Novel Approach for Face Recognition under Varying Illumination Conditions	V Mohanraj, V Vaidehi, S Vasuhi, Ranjit Kumar	International Journal of Intelligent Information Technologies (IJIIT)	Vol.14, Issue 2. Pp. 22- 42, Publisher IGI Global, (ISSN:). DOI: 10.4018/IJIIT.2018040102, April 2018
36.	“Performance Analysis of Cluster based Co-Operative Spectrum Sensing in Cognitive Radio Networks using Genetic Algorithm”	R J Abinaya, Vineetha Mathai, P. Indumathi	International Journal of Science and Innovative Engineering and Technology	Vol 3, Issue 3 May 2018
37.	Automatic Moving Vehicle Detection	V.Murugan V.R.Vijaykumar	Wireless Personel	(2018) Vol.100,issue

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	and Classification Based on Artificial Neural Fuzzy Inference System		Communications published by Springer	3,pp.745-766 doi.org/10.1007/s11277-018-5347-8
38.	Object detection and Shadow Removal techniques using Histogram based approaches for Video Surveillance	V.Murugan A.Nidhila	International Journal of Advance Research in Science and Engineering	Volume.No.07,Special Issue No.2, March-2018.(ISSN 2319-8354)
39.	Detection of Schizophrenia in brain MR images based on segmented ventricle region and Deep Belief Networks	Latha. M and Kavitha. G	Neural Computing and Applications, Springer	2018 https://doi.org/10.1007/s00521-018-3360-1
40.	Low-cost SPLL-based electrical faults identification for three-phase squirrel cage induction motor using handheld Doppler radar signal analysis	Madhusudhana Reddy Barusu, Umamaheswari Sethurajan, Meganathan D	IET Power Electronics	Vol-11 Issue-7, pp-1205-1216, May-2018.
41.	Diagnostic feature automation and diagnostic tool for In-Vehicle infotainment (IVI) System	Deepti Susan John, V. Sathiesh Kumar, Prasath Ramalingam and Manikandan Murugesan	International Journal of Pure and Applied Mathematics	Vol. 119, No. 7, 2018, pp. 1093-1099.
42.	Hybrid Feature descriptors to detect face spoof attacks	Mohanraj. V, S. Sibi Chakkaravarthy, Gogul. I, Vaidehi. V, Sathiesh Kumar. V and Ranajit Kumar	Journal of Intelligent and Fuzzy Systems	Vol. 34, 2018, pp. 1411-1419.

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National Journal

Sl. No.	Name of the Title	Author's Name	Name of the Publisher	Month & Year
1.	Electrostatic model to understand the influence of salt deposit in GFRP material during lightning discharges	Sathiesh Kumar V , Nilesh J. Vasa and R. Sarathi,	The Journal of CPRI	Vol. 13, Issue 4, pp. 37-46 (2017).
2.	Analysis of Timing and Frequency offset Estimation of OFDM system using Scaled Precision Model	V.Janakiraman, M.Kannan	Indian Journal of Science and Technology	(2017) Vol. 10, Issue 7

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c. Patents obtained

Sl. No.	Title of the Patent	Inventors	Patent Number	Patent organization	Month & Year
1.	A System and Method for Classification of Moving Objects during Video Surveillance	Behram Sethna, Mala John , Prasath Palaniappan, Sumithra Ganapathi	EP2413265B1	Awarded by EUROPE	18-Oct-2017

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12. List of achievements during the period **01.07.2017 to 30.06.2018**

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