

ANNA UNIVERSITY

Chennai 600 025

FORMAT FOR ANNUAL REPORT FOR THE YEAR 2019-2020 – JULY TO JUNE

Period from 01.07.2019 to 30.06.2020 (July to June)

(Use separate sheet for each item and don't leave blank columns)

Name of the Department / 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 **01.07.2019 to 30.06.2020**

Sl. No.	Name of the Faculty	Designation	E-Mail Address	Field of Specialization
1	Dr.Mala John	Professor	malajohn@annauniv.edu	Communication, Signal & Image Processing
2	Dr. M. Ganesh Madhan	Professor	mganesh@annauniv.edu	OPTO ELECTRONIC DEVICES, OPTICAL COMMUNICATIONS, RF SYSTEMS
3	Dr.M.Kannan	Professor	mkannan@annauniv.edu	Digital VLSI, Computer Architecture, Computer Networks
4	Dr. P. Indumathi	Professor	indu@mitindia.edu	Communications
5	Dr. P. T. V. Bhuvaneswari	Professor	ptvbmit@annauniv.edu	wireless networks, WSN, IOT, wireless Communication
6	Dr.S.Indira Gandhi	Professor	indira@mitindia.edu	COMMUNICATION NETWORKS,VLSI,VIDEO PROCESSING, OPTICAL COMMUNICATION
7	Dr. M. Manikandan	Associate Professor	maniiz@annauniv.edu	Image Signal Processing ,Cloud computing ,Cyber Security framework
8	Dr. P. Prakash	Associate Professor	prakashp_mit@annauniv.edu	Signal Processing
9	Dr. D. Meganathan	Associate Professor	meganathan_phd@annauniv.edu	Analog IC Design, VLSI Design, Devices and NoC design
10	Dr.S.P.Joy Vasantha Rani	Associate Professor	joy_mit@annauniv.edu	FPGA designs, Digital system designs, Evolvable hardware architectures
11	Dr. G. Kavitha	Associate Professor	kavithag_mit@annauniv.edu	BIOMEDICAL IMAGE PROCESSING

12	Dr. S. Vasuhi	Associate Professor	vasuhi_s@annauniv.edu	SIGNAL PROCESSING, Image Processig , RF, Microwave, Antennas
13	Dr. T. Subashri	Assistant Professor	tsubashri@annauniv.edu	Computer networks, Network security, complexity analysis, cryptograghy
14	Dr.S. Piramasubramanian	Assistant Professor	spirama@annauniv.edu	Optical Commnication, Optoel ectronics, RF Photonics and RF Engineering
15	Dr.K.Mariammal	Assistant Professor	mariammal@annauniv.edu	VLSI Signal Processing
16	Dr.C.Rimmya	Assistant Professor	rimmya@annauniv.edu	Optical Communication
17	Dr.G.Balamurugan	Assistant Professor	balanmail12@gmail.com	Communication Systems & Network, Physical Layer Security
18	Dr. V.Sathiesh Kumar	Assistant Professor	sathiesh@gmail.com	Artificial Intelligence, Embedded System Design, Opto-electronics, Image Processing

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

2) List of Degrees awarded during the period **01.07.2019 to 30.06.2020**

a. M.Phil. with Name of the Programme

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

b. M.E. / M.Tech. / M.Arch. / M.Plan. / MBA / MCA with Name of the Programme

Sl. No.	Title of the Thesis	Name of the Scholar	Name of the Supervisor	Month & Year of Viva-voce conducted
	Not Applicable - Unable to Conduct due to COVID			

c. M.Sc. (2 years) with Name of the Programme

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

d. M.Sc. (5 years) with Name of the Programme

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

Name of the Department / Centre / Institute : Department Of Electronics
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3) Sponsored Research Projects sanctioned during the period **01.07.2019 to 30.06.2020**

Sl. No.	Name of the Project	Name of the Co-ordinator	Amount (Rs.)	Sponsoring Agency
1	Trash classifier using image processing	Dr.P.T.V.Bhuvanewari	Rs.25,000	CTDT
2	Disaster relief management using autonomous drones	Dr.P.T.V.Bhuvanewari	Rs.20,000	CTDT
3	Live victim detection system for earthquake	Dr.K.Mariammal	Rs.20,000	CTDT

Name of the Department / Centre / Institute : Department Of Electronics
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4) Industrial Consultancy and Testing work undertaken during the period **01.07.2019 to 30.06.2020**

a. Consultancy

Sl. No.	Title of the Consultancy	Name of the Co-ordinator	Amount (Rs)	Sponsoring Agency
1.	Cross Verification of Base station antenna parameters	Dr. M. Ganesh Madhan	Rs.35,400/-	M/s Amphenol Antenna Solutions Pvt Ltd, Maraimalai Nagar
2.	Corporate advisor	Dr. Mala John	Rs.32,000/-	Arraystorm Lighting Private Limited", Bangalore

b. Testing work

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

Name of the Department / Centre / Institute : Department Of Electronics
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5) Continuing Education Programmes :

5.1 Training Programmes / Short term courses and Workshop **conducted** during the period **01.07.2019 to 30.06.2020**

a. Training programmes

Sl. No.	Title of the Training Programme	Date	No. of Participants	Name of the Co-ordinator	Sponsoring Agency
1	Research Challenges in VLSI and Communications	6th -7th February 2020	37	Dr.M.Kannan & Dr. K.Mariammal	Centre for Faculty Development

b. Short term courses

Sl. No.	Title of the Short term course	Date	No. of Participants	Name of the Co-ordinator	Sponsoring Agency
1.	Industrial Robotics, IOT and Cloud computing and Employability Enhancement	18.11.2019 to 13.12.2019 18.11.2019 to 07.12.2019 04.12.2019 to 15.02.2020 17.02.2020 to 14.03.2020	138	Dr.K.Mariammal (Deputy Nodal Officer)	Rashtriya Uchcharat Shiksha Abhiyan (RUSA) Siemens Centre of Excellence (SCoE)
2.	Fundamentals of PLC, Advancement in Industrial Automation, Employability Enhancement, Computer Aided Product Design and Employability Enhancement	02.12.2019 to 01.03.2020	43	Dr.K.Mariammal (Deputy Nodal Officer)	Rashtriya Uchcharat Shiksha Abhiyan (RUSA) Siemens Centre of Excellence (SCoE)

c. Workshop

Sl. No.	Title of the Workshop	Date	No. of Participants	Name of the Co-ordinator	Sponsoring Agency
	Not Applicable				

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

5.2 Training Programmes, Short term courses and Workshop **attended** by the Faculty members in other Institutions during the period **01.07.2019 to 30.06.2020**

Sl. No.	Name of the Faculty Member and Designation	Date	Title of the programme attended	Venue
1.	Dr.K.Marriammal Assistant Professor	11.05.2020 to 01.06.2020	Communication and Networking Technologies	BSNL, Tambaram, Chennai
2.	Dr.G.Balamurugan Assistant Professor	01.06.2020 to 19.06.2020	Communication and Networking Technologies	BSNL, Tambaram, Chennai
3.	Dr. G. Kavitha	26-Sep-2019 to 27-Sep-2019	National Level Seminar on IOT for Automation	MIT Campus, Anna University, India
4.	Mrs. G.Sumithra	17-Jul-2019 to 19-Jul-2019	Research Evaluation Workshop	organized by Visvesvaraya PhD Scheme for Electronics & IT, MEITY, Gov of Inia, India
5.	Dr. S. Piramasubramanian	19.8.2019 To 23.08.2019	Data Communication and Networking (One week FDP)	National Institute of Technical Teachers Training and Research (NITTTR) Chennai
6.	Dr. S. Piramasubramanian	July 2019 to Dec 2019(1 ½ Week)	AICTE-NPTEL Course on Microwave Theory and Techniques	On line
7	Dr. G. Kavitha Associate Professor	May 16th, 2020	Application of Drones based services in agriculture	Anna University, MIT Campus
8.	Mrs. C.Sridevi	17-Jul-2019 to 19-Jul-2019	Workshop for Presentations of Research work of Visvesvaraya PhD Scholars"	Punjab Engineering College, Chandigarh, India
9.	Mrs. A.Divya	16-Dec-2019 to 20-Dec-2019	Short term training programme on Software Engineering	Department of Information Technology, MIT campus, India

10	Mrs. A.Divya	28-Nov-2019 to 04-Dec-2019	Five days, National level Short Course on "skill development in C programming	-
11	Mrs. R.Ramya	13.05.2020 to 14.05.2020	Online FDP on Advanced C++	VIT, Chennai
12	Mrs. R.Ramya	16.05.2020	Distributed Temperature Sensing for Real-Time Power Line Monitoring for Raman Scattering in optical Fibers	IIT Chennai, organised by SRM University, Kattankulattur
13	Mrs. R.Ramya	16.05.2020	Covid -19 Awareness Quiz Program. Vivekananda College of Arts and Science for women	Online
14	Mrs. R.Ramya	18.05.2020	Machine learning model using linear regression algorithm	Easwari Engineering College, Chennai
15	Mrs. R.Ramya	19.05.2020 to 23.05.2020	FDP on Machine learning for signal processing by Sri Venkateswara College of Engineering, Chennai	Online
16	Mrs. S. Alagu	31-Jan-2020 To 02-Feb-2020	Research Trends in Data Analytics and Bio inspired Computing	MIT Campus, Anna University
17	Mrs. S. Alagu	25th April to 26th April 2020	ML& AI Using Covid-19 Virus Data Analysis	Finland Labs with NSS - IIT Roorkee
18	Mrs. S. Alagu	16th May 2020 to 16th May 2020	Effective and Efficient Online Teaching in the Age of Corona: A Hands-On Workshop	conducted by IIT Bombay - online
19	Mrs. S. Alagu	23rd May 2020 to 27th May 2020	Computing & Signal Processing in IOT Applications	IEEE SSIT Madras Section and QIS College of Engineering & Technology
20	Mrs. S. Alagu	13th June 2020	Grant Proposal writing	CIT-TLC,Coimbatore
21	Mrs. S. Alagu	20th June 2020	Bodhi Tree and SAFE tools	IIT BOMBAY

22	Mrs. S. Alagu	29June 2020. To June - 30, 2020.	Applications of Data Science	SSN COLLEGE OF ENGINEERING
23	Ms.Kasthuri	15 - May 2020	webinar on “Image Processing and its application”	SA Engineering College, Chennai
24	Ms.Kasthuri	14-May- 2020	webinar on “Yoga for Self Care”	Easwari Engineering College, Chennai
25	Ms.Kasthuri	20 –May- 2020	webinar on “Positive Thinking things and Tips”	Easwari Engineering College, Chennai
26	Ms.Kasthuri	18 -May - 2020	“Machine Learning using Linear Regression algorithm”	Easwari Engineering College, Chennai
27	Ms.Kasthuri	20 th June 2020	webinar on “Becoming a Beacon”	MIT Campus, Anna University
28	Ms.Kasthuri	2-June - 2020	webinar “Drones based services in Agriculture”	MIT Campus, Anna University
29	Mrs.B.Mehar Nisha Begam	04-07-2019	Optical Communication	Anna University, MIT Campus
30	Mrs.B.Mehar Nisha Begam	28-11-2019 to 04-12- 2019	Skill development in C programming	Anna University, MIT Campus
31	Mrs.B.Mehar Nisha Begam	14-02-2020 to 15-02- 2020	Contemporary Research aspects in Information- Centric Networking	Anna University, MIT Campus
32	Mrs.B.Mehar Nisha Begam	19-05-2020	Construction Procedures for Optical Fiber Sensors	SRM Institute of Science and Technology
33	Mrs.B.Mehar Nisha Begam	23-05-2020	Introduction to Digital Transformation	S.A Engineering College
34	Mrs.B.Mehar Nisha Begam	15-06-2020 to 20-06- 2020	Latest Trends and Challenges in IT Industry	R.M.D Engineering College
35	Mrs.B.Mehar Nisha Begam	20-06-2020	Application of Drones based services in agriculture	Anna University, MIT Campus
36	Ms.M.S.Vinotheni	06-02-2020 to	Research challenges in VLSI and communication	Anna University, MIT Campus
37	Ms.M.S.Vinotheni	14-02-2020 to 15-02- 2020	Contemporary Research aspects in Information- Centric Networking	Anna University, MIT Campus
38	Ms.M.S.Vinotheni	18-05-2020 to 22-05- 2020	Recent Trends in Electrical Engineering	Priyadarshini college of Engineering

39	Ms.M.S.Vinotheni	23-05-2020 to 25-05-2020	Network simulation and protocol analysis using NS2 NSG-2.1 and wireshark	Narsimha Reddy Engineering College
40	Ms.M.S.Vinotheni	15-06-2020 to 20-06-2020	Latest Trends and Challenges in IT Industry	R.M.D Engineering College
41	Ms.M.S.Vinotheni	19-05-2020	Construction Procedures for Optical Fiber Sensors	SRM Institute of Science and Technology
42	Ms.M.S.Vinotheni	23-05-2020	Introduction to Digital Transformation	S.A Engineering College
43	Ms.M.S.Vinotheni	18-05-2020	Machine learning model using linear regression algorithm	Easwari Engineering College, Chennai
44	Ms.M.S.Vinotheni	20-06-2020	Application of Drones based services in agriculture	Anna University, MIT Campus
45	Ms.M.S.Vinotheni	20-05-2020	Positive thinking tips and tricks	Easwari Engineering College, Chennai
46	Mrs .V.Vijayalakshmi	14.02.2020 to 15.02.2020	Contemporary Research aspects in Information Centric Networking	Madras Institute of Technology
47	Mrs .V.Vijayalakshmi	23.05.2020 to 27.05.2020	Computing and signal processing in IOT applications	QIS College of Engineering and Technology

5.3 Conferences / Seminars / Symposium **conducted** by the Department / Centre / Institute during the period **01.07.2019 to 30.06.2020**

a. Conferences

Sl. No .	Names of the Conference conducted	Date	No. of participants	Venue	Sponsoring Agency
1.	International Carnahan Conference on Security Technology	Oct 1-3, 2019	45	Anna University Guindy	IEEE

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b. Seminars

Sl. No .	Names of the Seminar conducted	Date	No. of participants	Venue	Sponsoring Agency
1	Two Days National Level Seminar on IoT for Automation	26th & 27th September, 2019	45	Department of Electronics Engineering , MIT campus	UGC DRS-SAP Phase - II

c. Symposium

Sl. No .	Names of the Symposium conducted	Date	No. of participants	Venue	Sponsoring Agency
1.	Intralevel Technical Symposium of Electronics Engineering “Apocalypse’19”	27.09.2019 and 28.09.2019	156	MIT Campus	Electronics Engineering Association MIT Campus
2	Electro focus 2020	Jan 31 & Feb 02 2020	776	MIT Campus	Electronics Engineering Association MIT Campus

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6) Faculty Development

6.1 Conferences / Seminars / Symposium attended by the Faculty Members of Anna University at **National Level (within India)** during the period **01.07.2019 to 30.06.2020**

Sl. No.	Faculty Name and Designation	Names of the Conferences/ Seminars / Symposium attended	Date	Address of Organized Institute
	Not Applicable			

6.2. Conferences / Seminars / Symposium attended by the Faculty Members of Anna University at **International Level (within India)** during the period **01.07.2019 to 30.06.2020**

Sl. No.	Faculty Name and Designation	Names of Conferences / Seminars / Symposium attended	Date	Address of Organized Institute
	Not Applicable			

6.3 Conferences / Seminars / Symposium attended by the Faculty Members at **International Level (outside India)** at other countries during the period **01.07.2019 to 30.06.2020**

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

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

**6.4. Lectures delivered by the Anna University Faculty members at other Institute
during the period 01.07.2019 to 30.06.2020**

Sl. No.	Faculty Name	Designation	Name of the programme	Address of Organized Institute	Date
1.	Dr. Mala John	Professor	Webinar series on Machine learning	Layola College, Chennai	15.06.2020 and 16.06.2020
2.	Dr. S. Piramasubramanian	Assistant Professor	FDTP on Transmission Lines and RF systems	Panimalar Institute of Technology , Chennai	23-Nov-2019
5	Dr. Sathiesh Kumar	Assistant Professor	IETE-Students Forum	Sri Venkateswara College of Engineering/Dept. of E, Chennai	24-Jul-2019
6	Dr. Sathiesh Kumar	Assistant Professor	Guest Lecture	Vellammal Engineering College/Dept. of ECE, Chennai	10-Aug-2019
7	Dr. Sathiesh Kumar	Assistant Professor	Guest Lecture	Kamaraj College of Engineering and Technology/Dept, Virudhunagar	12-Oct-2019
8	Dr. Sathiesh Kumar	Assistant Professor	Faculty Development Programme	Annamalai University/Dept. of E & I, Chidambaram	06-Nov-2019
9	Dr. Sathiesh Kumar	Assistant Professor	Faculty Development Programme	Government College of Engineering, Srirangam/Dept., Srirangam	08-Nov-2019
10	Dr. Sathiesh Kumar	Assistant Professor	Faculty Development Programme on Transfer Learning Networks and Applications, Practical use cases using Python Powered by TCPDF	VelTech University/Dept. of Electronics and Communication, Chennai	30-Nov-2019

11	Dr.M.Ganesh Madhan	Professor	Faculty development program on Signal Integrity for High speed digital links Topic:Board level Interconnect cross talk estimation	Department of Electronics and Communication Engineering SSN College of Engineering , Kalavakkam	6 – Nov,2019
12	Dr.M.Ganesh Madhan	Professor	Faculty Development Program on Matlab Topic: Matlab for communication	National Institute of Technical Teachers Training and Research NITTTR. Taramani, Chennai 113	26 Feb 2020
13	Dr.M.Ganesh Madhan	Professor	Technical Webinar Series 20 Topic: Research Methodology	Department of Electronics and Communication Engineering Mount Zion College of Engineering , Pudukottai	14 May 2020
14	Dr.M.Ganesh Madhan	Professor	Webinar on Elements of Signal Integrity for digital data links Topic:Board level Interconnect cross talk estimation	Department of Electronics and Communication Engineering SSN College of Engineering , Kalavakkam	20 May 2020

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6.5 Honours / Awards received from State / National / International bodies by the AU
Faculty Members during the period **01.07.2019 to 30.06.2020**

Sl. No .	Name of the Faculty Member	Designation	Name of the Honour / Award	Name of the Institute / Organization issued the Honours / Awards
1.	Dr.M.Ganesh Madhan	Professor	Fellow – Institution of Engineers India	Institution of Engineers India

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

7) Details of Visitors to the Departments/Centres/Institute other than Anna University Faculty during the period **01.07.2019 to 30.06.2020**

Sl. No.	Name of the visitor	Designation	Address of office / organization	Purpose of Visit	Date of visit
1.	Prof.Jing Jou Tang	Professor	Southern Taiwan University of Science and Technology, Taiwan	Seminar on "Trends in Vehicle Electronics"	23.10.2019
2.	Prof Dr.Subhas Chandra Mukhopadhyay,	Professor	School of Engineering, Macquarie University, NSW 2109, Australia	Technical talk on "IoT and WSN for Health, Home Management and Smart City"	19.12.2019
3.	Mr.T.Senthil Kumar,	Sub-Divisional Engineer	Bharat Sanchar Nigam Limited(BSNL)	A lecture on 5G Evolution	17.12.2019
4.	Prof.Ramalingam Sridhar	Associate Professor	University at Buffalo, USA	A lecture on Evolution of Embedded Systems	10.01.2020
5.	Prof.Danieal Leon Salas	Associate Professor	Purdue University, Indiana	Lecture on Research Activities at Purdue University	14.01.2020

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8) New Equipment / Instruments purchased costing above **Rs.5.00 lakh** during the period **01.07.2019 to 30.06.2020**

Sl. No.	Name of the New Equipment / Instrument purchased	Nature of work / Function of the Equipment / Instrument	Purchase cost (above Rs. 5.00 Lakh)
1	17 Intel Core Desktop Computer (28 Nos.)	For Research and Academic Purpose	Rs.12.96 Lakhs
2	Netsim software	Network simulator software - For Research and Academic Purpose	Rs.6.099 Lakhs

Name of the Department / Centre / Institute : Department Of Electronics
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9) a. Research Papers Presented in **National** Conferences / Seminars / Symposium / Workshop during the period **01.07.2019 to 30.06.2020**

Sl. No.	Faculty Name and Designation	Title of the Research paper presented	Name of the Conference and Venue	Date
1	Dr.M.Ganesh Madhan	Design and Development of Carbon filled Epoxy resin based microstrip Antenna for Wireless Communications”,	National Conference on Communication Systems (NCOCS-2019 National Institute of Technology, Puduchery,Karaikal,	September 21,2019.
2	Dr.M.Ganesh Madhan	Simulation studies on polarisation switching behaviour of VCSEL”,	DAE – BRNS, National laser symposium (NLS-28), CP-05-10,pp.77, VIT Chennai,	Jan 8 – 10,2020
3	Dr.G.Kavitha	Assessment of cardiovascular disorders based on 3D left ventricle model of cine cardiac MR sequence”	2 nd National Conference on Cyber Security, Image Processing, Graphics, Mobility & Analytics (NCCSIGMA – 2k19	2019
4	Dr.G.Kavitha	Detection of degree of abnormality in cardiac magnetic resonance images with segmented left ventricle and deep convolutional neural network	11 th National Conference on Signal processing, Communication & VLSI design (NCSCV’19), Anna University	2019
5	Dr.G.Kavitha	Study of symmetry variation and severity detection in MR brain images using crow search optimization based threshold and DSIFT detectors	11 th National Conference on Signal processing, Communication & VLSI design (NCSCV’19), Anna University	2019
6	Dr.G.Kavitha	FPGA based implementation of edge detection algorithm in sequence of images	12th National conference on signal processing, communication and VLSI design	June 2020

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b. Research Papers Presented in **International** Conferences / Seminars / Symposium / Workshop during the period **01.07.2019 to 30.06.2020**

Sl. No.	Faculty Name and Designation	Title of the Research paper presented	Name of the Conference and Venue	Date
1.	Dr. P. Prakash	Analysis of Electronic Dispersion Compensation for 10GBPS using Equalizer	IEEE international Conference on Innovation in Power and Advanced Computing Technologies	2019
2.	Dr. S. P. Joy Vasantha Rani	Realization of Embedded Soft Sensor for Bioreactor using MicroBlaze of ZynqSoC	IEEE International Conference (ICISC-19)	2019
		Design of logic blocks with increased efficiency for FPGA	Second International Conference on Signals, Systems and Communication (ICSSC-2019)	2019
		Efficient routing algorithm for FPGA	Second International Conference on Signals, Systems and Communication (ICSSC-2019)	2019
3.	Dr.G,Kavitha	Diagnosis of Neurodegenerative Disorders in Brain MRI Using Tissue Variation and SVM	Alliance International Conference on Artificial Intelligence and Machine Learning (AICAAM'19)	2019
4.	Dr.K.Mariammal	VLSI Implementation of Transforms	2nd International Conference on Signals Systems and Communication	2019
		VLSI Implementation of Frame Compression Using Efficient Coders	2nd International Conference on Signals Systems and Communication	2019
		Design of Configurable Adder and its Application to Filtering	2nd International Conference on Signals Systems and Communication	2019

5.	Mrs.A.Divya	Lung Cancer Detection and Segmentation using Convolutional Neural Network	7th international conference on Contemporary engineering and technology 2019	2019
		Neural Network for Identification and Classification of Plant Leaf Diseases	5th international conference on science technology engineering and mathematics	2019
6.	Mrs. S. Alagu	Acute Lymphoblastic Leukemia Diagnosis in microscopic blood smear images using Texture features and SVM classifier	Alliance International conference on Artificial Intelligence and Machine Learning	2019

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10) Journals published during the period **01.07.2019 to 30.06.2020**

a. Research papers published In **National Journals**

Sl. No.	Name of the Title	Author's Name	Name of the Publisher	Month & Year
	Not Applicable			

b. Research papers published In **International Journals**

Sl. No.	Name of the Title	Author's Name	Name of the Publisher	Month & Year
1	Dynamic background modeling using deep learning autoencoder network	Gracewell, J., John, M.	Multimedia Tools and Applications	2019
2	Design and analysis of a dual-polarized graphene based microstrip patch antenna for terahertz applications	Shalini, M., Madhan, M.G.	OPTIK – International Journal of Light and Electron Optics, Elsevier GmbH, Elsevier	2019
3	Graphene-Based Photoconductive Antenna Structures for Directional Terahertz Emission	Nissiyah, G.J., Madhan, M.G.	Plasmonics	2019
4	Performance analysis of various pulse modulation schemes for a FSO link employing gain switched quantum cascade lasers	Ashok, P., Ganesh Madhan, M.	Optics and Laser Technology	2019
5	A Narrow Spectrum Terahertz Emitter Based on Graphene Photoconductive Antenna	Nissiyah, G.J., Madhan, M.G.	Plasmonics	2019
6	Performance evaluation of remote millimeter wave generation in a digital optical link incorporating a gain switched vertical cavity surface emitting laser	Murali Krishna, K., Ganesh Madhan, M.	Journal of Optoelectronics and Advanced Materials	2019
7	Halve dumbbell shaped DGS tapered ring antenna for dual-band notch characteristics	Kamalaveni, A. Ganesh Madhan, M.	Electromagnetics	2019

8	Reducing Reconfiguration Overheads Using Configuration Prefetch, Optimal Reuse, and Optimal Memory Mapping	Hariharan, I. Kannan, M.	National Academy Science Letters	2019
9	Efficient Use of On-Chip Memories and Scheduling Techniques to Eliminate the Reconfiguration Overheads in Reconfigurable Systems	Hariharan, I. Kannan, M.	Journal of Circuits, Systems and Computers	2019
10	FPGA implementation of a low power 64-point FFT architecture using modified radix-4 algorithm	JM E. Konguvel, M. Kannan	Journal of Electrical Engineering	2019
11	Hardware Implementation of FFT/IFFT Algorithms Incorporating Efficient Computational Elements	Konguvel Elango, Kannan Muniandi	Journal of Electrical Engineering & Technology	2019
12	Regression model for seamless mobility in LTE-A HetNets	Saraswathi Priyadharshini A and Bhuvanewari P.T.V	Transactions on Emerging Telecommunications Technologies	2019
13	Improving energy efficiency in LTE-A networks with the reduction of failure rate in eNB components	P Bhuvanewari, L Nithyanandan	Concurrency and Computation: Practice and Experience	2019
14	Design of photonic crystal based optical digital to analog converters	Indira Gandhi, S., Sridarshini, T.	Laser Physics	2019
15	A dual-mode cascaded H-bridge multilevel inverter for improving THD	Francis, R. Meganathan, D.	Electrical Engineering	2019
16	A fast On-Chip Adaptive Genetic Algorithm Processor for Evolutionary FIR Filter Implementation using Hardware Software Co-design	C Ranjith, SP Joy Vasantha Rani	Journal of Circuits, Systems and Computers	2019
17	Automatic fault isolation and restoration of distribution system using JADE based Multi-Agents	Indhumathi Chellaswamy, Joy Vasantha Rani SP	Turkish Journal of Electrical Engineering & Computer Sciences	2019
18	Time domain modelled ADC BIST with ramp noise projection	M Senthil Sivakumar, SP Joy Vasantha Rani	International Journal of Electronics	2019
19	Efficient Design of ADC BIST with an Analog Ramp Signal Generation and Digital Error Estimation	M Senthil Sivakumar, SP Joy Vasantha Rani	Journal of Circuits, Systems and Computers	2019

20	Assessment of severity in neuropsychiatric disorders based on radiomic features with prior shape level set and metaheuristic algorithms	Latha, M. Kavitha, G.	International Journal of Imaging Systems and Technology	2019
21	Fourth order diffusion model based edge map extraction of infrared breast images	Thamil Selvi, J. Kavitha, G. Sujatha, C.M.	Journal of Computational Methods in Sciences and Engineering	2019
22	Hardware design implementation issues of the estimator-based controller using FPGA	Kanthimathi, R., Kamala, J., Jaibalaganesh, T., Vasuhi, S.	International Journal of Electronics	2019
23	Trajectory based abnormal event detection in video traffic surveillance using general potential data field with spectral clustering	Athanesious, J.J., Chakkaravarthy, S.S., Vasuhi, S., Vaidehi, V.	Multimedia Tools and Applications	2019
24	Analysis of nonlinear distortion and its reduction using feedback injection schemes in an 1.3 micrometer transistor laser	S. V. Vinothini, S.Piramasubramanian and M.Ganesh Madhan	Optics Communications, published by Elsevier	2019
25	An Efficient Scheme for simultaneous 60 GHz MM Wave Generation and CSRZ-DQPSK Transmission in a passive optical network	Rimmya Chitravelu , Ganesh Madhan M	Microwave and Optical Technology Letters	2019
26	Performance analysis of CSRZ-DQPSK transmitter configurations for SBS tolerance in single mode fiber link	Rimmya Chitravelu , Ganesh Madhan M	OPTIK – International Journal of Light and Electron Optics, Elsevier GmbH, Elsevier	2019
27	A study on plant recognition using conventional image processing and deep learning approaches	Anubha Pearline S, Sathiesh Kumar V and Harini S	Journal of Intelligent and Fuzzy Systems	2019
28	DDLA: Dual Deep Learning Architecture for Classification of Plant Species	S ANUBHA PEARLINE, V SATHIESH KUMAR	IET Image Processing	2019
29	Load balancing in heterogeneous network using machine learning technique	Rajesh, L., Bhoopathy Bagan, K., Tamilarasan, K., Meena, M.	International Journal of Innovative Technology and Exploring Engineering	2019

30	Efficient spectrum utilization using dynamic spectrum allocation in multiuser cognitive radio network	Tamilarasan, K. Katiravan, J. Rajesh, L.	International Journal of Innovative Technology and Exploring Engineering	2019
31	Cardiovascular Disorder Severity Detection Using Myocardial Anatomic Features Based Optimized Extreme Learning Machine Approach	Dr.G.Kavitha	Innovation and Research in Bio Medical engineering (IRBM), Elsevier Publications	June 2020
32	An integrated multi-objective whale optimized support vector machine and local texture feature model for severity prediction in subjects with cardiovascular disorder	Dr.G.Kavitha	International Journal of Computer Assisted Radiology and Surgery, Springer,2020	2020

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

11) Books written by the Faculty members during the period **01.07.2019** to **30.06.2020**

Sl. No.	Name of the Books written	Name of the Faculty	Name of the Publisher	Month & Year
	Not Applicable			

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

12) Patents obtained during the period **01.07.2019 to 30.06.2020**

Sl. No.	Title of the Patent	Inventors	Patent Number	Patent organization	Month & Year
	Not Applicable				

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

13) List of achievements during the period **01.07.2019 to 30.06.2020**

Achievement by our student - M Ajaykumar, Roll number 2017504003 III year student has Secured gold medal in zonal handball tournamet held on september 2019.He also Secured gold medal in discuss throw and silver medal in shotput in zonal Level sports held during october, 2019.