



MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE
(UGC-AUTONOMOUS)



Affiliated to JNTUA, Ananthapuramu & Approved by AICTE, New Delhi
Recognized Research Center, Accredited by NBA, NAAC for CSE, ECE, EEE, ME & MBA
World Bank Funded Institute, Recognized by UGC under the sections 2(f) and 12(B) of the UGC act1956
Recognized as Scientific & Industrial Research Organization by DSIR of DST

Department of Electronics and Communication Engineering

Faculty Achievements (Academic Year 2018- 2019)

List of Patents Published:

S.No	Name of the Patenter	Application Number	Title of the Patent	Year of award of Patent
1.	Dr Sitharthan Ramachandran, Dr. Karthikeyan Madurakavi, Dr. Sathees Kumar Natraj, Dr. Narayanan Swaminathan, Dr. Rajasekaran Subramaniam, Sujatha Krishnamoorthy, Parthasarathi Thirimanickam	201841030664	A Hygiene Feeding Bottle with controlled cleanliness parameters enabled by Automatic means and a method for achieving the same	Status : Published Date of Publishing: 24/08/2018

List of Publications in Book Chapters:

The faculties who have book chapters during the academic year 2018-2019 are listed below:

S.No.	Name(s) of Author(s)	Title of the Paper	Name of the Journal/Conference/ Book	Vol. No/ Issue No. /Page. No/ Month/ Year	DOI/ ISSN	Publisher / Indexing	Impact Factor	Citation
1	P. Anitha, P.Ramanathan and P.T. Vanathi	Modified Low-Power Built-in Self-test for Image Processing Application	Lecture Notes in Computational Vision and Biomechanics, Springer Publications	31/199-206/January, 2019	DOI:/10.1007/978-3-030-04061-1/ ISSN: 2212-9413	Springer	NA	--
2	O Navin, G Kumar, N Kumar, K Baderia, R Kumar, A Kumar Springer Scopus	Peaks Detection Using Shannon Energy for HRV Analysis	Lecture Notes in Electrical Engineering	256	https://doi.org/10.1007/978-981-13-2553-3_39	Springer	--	--
3	Sarwesh P., N. Shekar V.Shet & KChandrasekaran	Reliable Cross Layer Design for E-health Applications - IoT Perspective	Springer , Book Chapter	97-113	ISBN-978-3-319-70688-7, 2018	Scopus	--	4
4	Sarwesh P., N. Shekar V. Shet and K. Chandrasekaran	Envisioned Network Architecture for IoT Applications	Springer , Book Chapter	83-102	ISBN978-3-319-92564-6	Scopus	--	3

List of Paper Publications:

The faculties who have published papers in various International journals during the academic year 2018-2019 are listed below:

S.No.	Name(s) of Author(s)	Title of the Paper	Name of the Journal/Conference/ Book	Vol. No/ Issue No. /Page. No/ Month/ Year	DOI/ISSN	Publisher /Indexing	Impact Factor	Citation
1	Debashish Dash, Chandan Kumar Pandey, Saurabh Chaudhury, Susanta Kumar Tripathy	Structure, Stability and Electronic Properties of Thin TiO ₂ Nanowires of Different Novel Shapes: An Ab-Initio Study	International journal of Science and Technology	In Press March 2019	DOI: 10.24200/S CI.2019.50644.18 00/ ISSN: 1026-3098	Scientia Iranica/ SCI	1.025	--
2	Sitharthan R, T Parthasarathy, S Sheeba Rani, KC Ramya	An Improved RBFNN Control Strategy based MPPT Controller for Wind Power Generation System	Transactions of the Institute of Measurement and Control	1/1/1-13/ January 2019	DOI:10.1177/0142331218823858/I SSN: 01423312	1.579 Sage / SCI	1.579	--
3	R Sitharthan, CK Sundarabalan, KR Devabalaji, T Yuvaraj and A Mohamed Imran	Automated Power Management Strategy for Wind Power Generation System using Pitch Angle Controller	Measurement and Control	1/1/1-14/ 14 March 2019	DOI: 10.1177/0020294019827330/ ISSN: 0020-2940	Sage / SCI	0.878	--
4	Gaurav Varshney	A proximity coupled wideband graphene antenna with the generation of higher order	Optical Materials, Elsevier	85 /1/ 456-463/ Nov. 2018	<u>DOI:10.1016/j.optmat.2018.09.015/</u> ISSN: 0925-3467	Elsevier/ SCI	2.32	1

		TM modes for THz applications						
5	Divya Chaturvedi, Arvind Kumar and S. Raghavan	Compact QMSIW-based antenna with different resonant frequencies depending on loading of metalized vias	International Journal of Microwave and Wireless Technologies	In Press/ 02 April, 2019	https://doi.org/10.1017/S1759078719000126/ ISSN:1759-0787	Cambridge University Press/ SCOPUS	0.976	- -
6	Bappaditya Roy, AyanKarmakar, Ujjal chakrabaorty, Santosh Kumar Chowdhury, Anup Kumar hattacharjee	Planar switched beam network using butler matrix on a single layer substrate for WLAN applications	Turkish Journal of Electrical Engineering & Computer Sciences	In Press/ Jan 2019	1300-0632	Academic Journals, Turkey/SCI	0.697	--
7	Anil Kumar Soni, B. Purnachandr Rao	Lock-in Amplifier Based Eddy Current Instrument for Detection of Sub-surface Defect in Stainless Steel Plates	Sensing and Imaging	19/ 1/1-11/ August 2018	DOI: 10.1007/s11220-018-0217-8 /ISSN: 1557-2064	Springer/ Scopus	--	--
8	Ankan Bhattacharya, Bappaditya Roy, S.K. Chowdhury and A.K.Bhattacharjee	Compact Printed Hexagonal Ultra-Wideband Monopole Antenna with Band-Notch Characteristics	Indian Journal of Pure & Applied Physics (IJPAP)	In Press	ISSN: 0975-1041	IJPAP/SCI	0.582	--
	Ankan Bhattacharya,	Low-profile, extremely wideband,	International Journal of Microwave and	In Press	https://doi.org/10.1017/S175907871			

9	Bappaditya Roy, Rafael F. S. Caldeirinha, and Anup K. Bhattacharjee	dual band- notched MIMO antenna for UWB applications	Wireless Technologies		9000266/ISSN: 1759-0787	Willy/Scopus	0.745	--
10	Arnab De, Bappaditya Roy and Anup Kumar Bhattacharjee	Dual-notched Monopole Antenna using DGS for WLAN and Wi-MAX applications	Journal of Circuits, Systems, and Computers	28/ 11/ 1-18/January 2019	DOI: 10.1142/S0218126619501895/ ISSN: 0218-1266	World Scientific/SCI	0.595	--
11	U. Chakraborty, A. Biswas, S. Maity, B Bappaditya Roy, S. Roy	Dielectric Resonator Array Antenna for Triple Band WLAN Applications with Enhanced Gain	International Journal of RF and Microwave Computer-Aided Engineering.	29/ 2 / 1-9/ 2019	DOI:10.1002/mmce.21529/ ISSN:1099-047X	Wiley/SCI	1.306	--
12	S. Hoque, S. Shekhar, D. Sen, and W. Arif	Analysis of Handoff Delay for Proactive Spectrum Handoff Scheme with PRP M/G/1/K Queuing System in Cognitive Radio Networks	IET-Communications	In Press	DOI: https://doi.org/10.1049/iet-com.2018.5687 /ISSN:1751-8636,	IET/SCI	1.44	--
13	Prashanth Kumar, and Brinda Bhowmick	Comparative Analysis of Hetero Gate DielectricHetero Structure Tunnel FET and Schottky Barrier FET with n+ Pocket Doping for Suppression of	Journal of Nanoelectronics and Optoelectronics	14/1 / 261-271/January, 2019	DOI: https://doi.org/10.1166/jno.2019.2488 / ISSN: 1555-130X	American Scientific Publishers/SCI	0.58	--

		Ambipolar Conduction and Improved RF/Linearity						
14	R. Bera, D. Mandal, R. Kar, S. P. Ghoshal	Low Side-lobe Beam-pattern Synthesis: Thinning of a Large Concentric Circular Antenna Array Using Wavelet Mutation Based Seeker Optimization Algorithm.	IEEE MTT-S Chapter 2406-1050 Microwave Review	24/1/8-17/May 17, 2018	ISSN: 1450-5835	NSMT/ SCOPUS	- -	--
15	Bhupendra Singh Reniwal, Vikas Vijayvargiya, Pooran Singh, Nand Kishor Yadav, Santosh Kumar Vishvakarma,	An Auto-Calibrated Sense Amplifier with O set Prediction Approach for Energy-Efficient SRAM, Circuits, Syst. Signal Process	Circuits, Syst. Signal Process, Springer	38/ 1/ 1482–1505/August , 2018	DOI: 10.1007/s00034-018-0934-1/ ISSN: 1531-5878	Springer/S CI	1.998	--
16	Sankalita Biswas, Aniruddha Chandra, Sanjay Dhar Roy.	Single CCA Cross-Layer Energy and Throughput comparison with double CCA case for Beacon enabled 802.15.4 Networks	Special issue on Traffic Engineering and Optimization in Next Generation Networks, IET Networks.	1/1/1-10/ December 2018	DOI: 10.1049/iet-net.2018.5108/ ISSN: 1751-8644	IET/SCI	1.094	--

17	VankayalaChethan Prakash, G. Nagarajan, and P. Ramanathan	Indoor Channel Characterization with Multiple Hypotheses Testing in Multiple Input Multiple Output	Journal of Computation and Theoretical Nanoscience, American Scientific Publishers	16 / 1-5	ISSN: 1546-1955 (Print): EISSN: 1546-1963 (Online)	American Scientific Publishers/ SCOPUS	--	--
18	Satrughan Kumar, Jigyendra Sen Yadav, Kumar Manoj, Subramanian Rajasekaran	Moving Object Localization in Video Sequences under Static and Dynamic Background Conditions	International Journal of Intelligent Engineering and Systems	12/1/145-155/ February 2019	DOI: 10.22266/ijies2019.0430.15 ISSN:2185-3118	Intelligent Networks and Systems Society/ SCOPUS	--	- -
19	Satrughan Kumar, Jigyendra Sen yadav, Kumar Manoj, S. Rajsekaran, Ranjeet Kumar	Object localization and Tracking Using Background Subtraction and Dual-Tree Complex Wavelet Transform	International Journal of Engineering and Advanced Technology	8/ 1/ 421-427/ February 2019	DoI: C588302831919© BEIESP/ ISSN:2249-8958	Blue Eyes Intelligence Engineering & Sciences Publication / SCOPUS	- -	--
20	Sumit Kale	Performance Improvement and analysis of PtSi Schottky Barrier p-MOSFET	Silicon	In Press	DOI:10.1007/s12 633-019-00161-1	Springer/ SCI	1.25	
21	M. Karthikeyan, R. Sitharthan	Compact four-port circulator based on 2D photonic crystals with a 90° rotation of the	Laser Physics	29/6/June 2019	DOI: 10.1088/155 5-6611/ab1413	IOP/SCI	1.1	-

		light wave for photonic integrated circuits applications						
22	Gaurav Varshney, Shailza Gotra, V. S. Pandey And R. S. Yaduvanshi	Dual-band circularly polarized dielectric resonator antenna with the miniaturization technique	IET Microwave Antennas and Propagation	In Press		IET/SCI	1.73	--
23	Ankan.Bhattacharya ,Bappaditya Roy, S.K.Chowdhury and A.K. Bhattacharjee	Compact Printed Hexagonal Ultra-Wideband Monopole Antenna with Band-Notch Characteristics	Indian Journal of Pure & Applied Physics (IJPAP)	Vol.57, pp. 272-277, April 2019.	ISSN: 0975-1041	sci	.582	--
24	Lucky Agarwal, Shweta Tripathi and P.Chakrabati.	Effects of Copper concentration on structural and optical properties of Copper doped ZnO prepared by Sol-Gel spin coating method.	Materials Focus	7, 18-25, Feb,2018	https://doi.org/10.1166/mat.2018.1470/2169-4303	ASP/ SCI	- -	--
25	P Kumar and B. Bhowmick	Comparative analysis of hetero gate Dielectric hetero structure Tunnel FET and Schottky barrier FET with n+ pocket doping for Suppression of Ambipolar	JNO	14/1/261-271	DOI: https://doi.org/10.1166/jno.2019.2488	American Scientific Publishers	1.069	--

		conduction and improved RF/linearity performances						
26	P Kumar and B. Bhowmick	Source-Drain Junction Engineering Schottky Barrier MOSFETs and their Mixed Mode application	Silicon		10.1007/s12633-019-00170-0	Springer	0.704	--
27	Singh P., Reniwal B.S., Vijayvargiya V. and Vishvakarma S.K.	Ultra-Low Power-High Stability, Positive Feedback Controlled (PFC) 10T SRAM cell for Look up Table (LUT) Design	Integration, The VLSI Journal	Vol. 62, no.1, pp.1-13, June 2018	https://doi.org/10.1016/j.vlsi.2018.03.006	Science Direct/SCI	0.96	1
28	Reniwal B., Vijayvargiya V., Vishvakarma S.K. and Dwivedi D.	An Auto-Calibrated Sense Amplifier with O set Prediction Approach for Energy-Efficient SRAM	Circuits, Syst. Signal Process, Springer,	Vol. 38, no.4, pp.1482-1505, Aug 2018	https://doi.org/10.1007/s00034-018-0934-1 and ISSN:0278-081X	Springer/SCI	1.998	--
29	Jyoti P. Patra and Poonam Singh	A novel LMMSE-EM Channel Estimator for High Mobility STBC-OFDM System	Journal of Circuit, System and Computer, World Scientific	Online ready	DOI- 10.1142/S0218126619502232	World Scientific SCI	0.595	--

30	Jyoti P. Patra and Poonam Singh	Efficient Signal Detection Methods for High Mobility OFDM System with Transmit Diversity	Arabian Journal for Science and Engineering, Springer	vol. 44, no. 3, pp. 1769-1768, March- 2019	DOI 10.1007/s13369-018-3103-8	Springer SCI	1.092	--
31	Jyoti P. Patra and Poonam Singh	On Signal Detection for OSTBC-Based Amplify-and-Forward Cooperative Relaying System Over Time Selective Channel	Wireless Personal Communication, Springer	vol. 101, no. 4, pp. 2209-2226, August-2018	DOI 10.1007/s11277-018-5812-4	Springer SCI	1.200	--
32	S. Hoque, W. Arif, D. Sen and S. Baishya	Analysis of Spectrum Handoff under General Residual Time Distributions of Spectrum Holes in Cognitive Radio Networks	Journal of Information Science and Engineering (JISE)	vol. 34, no. 4, pp. 851-867, 2018	10.6688/JISE.201807_34(4).0004	SCIE	0.468	0
33	B. K. Singh and Shweta Tripathi	Performance Analysis of Schottky Diodes Based on Bi Doped p-ZnO Thin Films	Superlattices and Microstructures	120, 288-297, August 2018	https://doi.org/10.1016/j.spmi.2018.05.054/0749-6036	Elsevier	2.123	--
34	Chandramauleshwr Roy and Aminul Islam	Design of Differential TG based 8T SRAM Cell for Ultralow Power Applications	Microsystem Technologies	DOI: 10.1007/s00542-018-4035-7	0946-7076	SCI	1.58	--

35	Dheeren Ku Mahapatra and LakshiProsad Roy	Efficient Modelling of SAR Texture with Gamma-Inverse Gamma Distribution for MAP-based Speckle Suppression	IET Radar, Sonar & Navigation	February 2019	10.1049/iet-rsn.2018.5230	IET/ SCI	1.837	--
36	S. Hoque and W. Arif	Impact of Secondary User Mobility on Spectrum Handoff under generalized residual time distributions in Cognitive Radio Networks	International Journal of Electronics and Communications (AEÜ)	vol. 86, pp. 185-194, 2018	https://doi.org/10.1016/j.aeue.2018.01.031	SCIE	2.115	01
37	S. Hoque, D. Sen, and W. Arif	Impact of Residual Time Distributions of Spectrum Holes on Spectrum Handoff performance with Finite Switching Delay in Cognitive Radio Networks	International Journal of Electronics and Communications (AEÜ)	vol. 92, pp. 21-29. 2018	https://doi.org/10.1016/j.aeue.2018.05.016	SCIE	2.115	01
38	Sitharthan, R., T. Parthasarathy, S. Sheeba Rani, and K. C. Ramya.	An improved radial basis function neural network control strategy-based maximum power point tracking controller for wind power	Transactions of the Institute of Measurement and Control	Vol:1, PP-1- 13	10.1177/0142331218823858	Sage/SCI	1.579	--

		generation system.						
39	Sitharthan, R., Sundarabalan, C.K., Devabalaji, K.R., Yuvaraj, T. and Mohamed Imran, A	Automated power management strategy for wind power generation system using pitch angle controller.	Measurement and Control	Vol:1, PP: 1-14	10.1177/0020294019827330	Sage/SCI	0.878	--
40	Sarwesh P., N. Shekar V. Shet and K. Chandrasekaran	ETRT based Cross Layer Model for Improving Lifetime of Low Power Wireless Networks- An Internet of Things Perspective	Physical Communication, Elsevier	Volume 29, August 2018, Pages 307-318		SCI	- -	4
41	Gaurav Varshney, Astha Verma, V. S. Pandey, R. S. Yaduvanshi and Rajni Bala	A proximity coupled wideband graphene antenna with the generation of higher order TM modes for THz applications	Optical Materials	Vol. No. 85 Page No. 456-463 Month/Year November/2018	https://doi.org/10.1016/j.optmat.2018.09.015 ISSN: 0925-3467	Elsevier/SCI	2.32	1
42.	Shailza Gotra, Gaurav Vaarshney,	Dual-Band Circular Polarization Generation Technique with the Miniaturization of a Rectangular Dielectric Resonator Antenna	IET Microwave Antennas and Propagation	1	10.1049/iet-map.2019.0030 ISSN: 1751-8733	IET Microwave Antennas	1.739	--

Faculty interaction outside world:

S.No	Name of the Faculty member	Qualification	Designation	Type of Assignment	Details of Assignment	Period From to
1.	Dr. M Shanmuga Kumar	Ph.D.	Professor	Guest lectures	Dr. MGR University, Chennai as Invited Speaker	22.11.2018 to 23.11.2018
2.	Dr. Gaurav Varshney	Ph.D.	Professor	Research and project development work	National Institute of Technology, Delhi	01.12.2018 to 10.12.2018
3.	Dr. Gaurav Varshney	Ph.D.	Sr. Asst. Professor	Research and project development work	Global Immersion Program for Indian Students and Teachers, Providence University (PU), Taiwan.	16.12.2018 to 25.12.2018
4.	Dr. Lucky Agrawal	Ph.D.	Sr.Asst. Professor	Research and project development work	Experiment performed related to research at MNNIT Allahabad	10-6-2019 to - 20-6-2019
5.	Dr. Samba Shiva Rao	Ph.D.	Sr.Asst. Professor	Research and project development work	Mentor of college team in Smart Indian Hackathon and secured top position in contest held at SRM Chennai.	05-July -2019

S.No	Name of the Faculty member	Qualification	Designation	Type of Assignment	Details of Assignment	Period From to
6.	Dr. G. Soundra Pandian	Ph.D	Professor	Research work	Demo of prototype and presentation before ssc of Niti Ayog for 1Crore research grant.	11-03-2019
7.	Dr. P. Ramanathan	Ph.d	Professor	Ph.d Viva Voce	“Rice Leaf Disease identification using novel nature inspired attribute selection algorithm. Anna University Chennai.	10-12-2018
8.	Dr. P. Ramanathan	Ph.d	Professor	Ph.d Viva Voce	“Low power designing evaluable fuzzy inference system for embedded system application. Vishwasariya Technological university Belgam, Karnataka.	2019
9.	Dr. P. Ramanathan	Ph.d	Professor	Ph.d Viva Voce	Investigation on improving the quality of regression testing process by test case prioritization. Anna University Chennai.	28-06-2019

S.No	Name of the Faculty member	Qualification	Designation	Type of Assignment	Details of Assignment	Period From to
10.	Dr. P. Ramanathan	Ph.d	Professor	Question paper setter	Appointed as question paper setter for UG level exam in Pondicherry University	11-07-2019
11.	Dr. P. Ramanathan	Ph.d	Professor	Question paper setter	Appointed as question paper setter for PG level exam in VignanUniversity(Vignan's foundation for science engineering and research).	10-12-2018
12.	Dr. P. Ramanathan	Ph.d	Professor	Question paper setter	Appointed as question paper setter for UG level exam in VignanUniversity(Vignanan foundation for science and technology)	03-04-2019
13.	Dr. P. Ramanathan	Ph.d	Professor	Question paper setter	Appointed as question paper setter for UG level exam in VignanUniversity(Vignanan foundation for science and technology)	18-05-2019

S.No	Name of the Faculty member	Qualification	Designation	Type of Assignment	Details of Assignment	Period From to
14.	Dr. P. Ramanathan	Ph.d	Professor	Question paper setter	Appointed as question paper setter for UG level exam in VignanUniversity(Vignanan foundation for science and technology)	26-03--2019
15.	Dr.P. Manimaran	Ph.D.	Professor	Industrial visit for student	ISRO, Bengaluru.	05.07.2018
16.	Gaurav Varshney	Ph.D.	Sr.Asst. Professor	As a Reviewer in Journal	1. IEEE Transactions on Antennas and Propagation 2. International Journal of RF Microwave and Computer Aided Engineering, Willey, 3. Wireless Personal Communication, Springer, 4. Material Research Express, IOP Science, 5. Journal of Nano Electronics and Optoelectronics.	2018
17.	Dr. Lucky Agrawal	Ph.D.	Sr.Asst. Professor	Research and project development work	Mentor of college team in Smart Indian Hackathon and secured top position in contest held at SRM Chennai.	05-July -2019

S.No	Name of the Faculty member	Qualification	Designation	Type of Assignment	Details of Assignment	Period From to
18.	Dr B Prashanth Kumar	Ph.D.	Sr.Asst. Professor	As a Reviewer in Journal	1. Silicon 2. Semiconductor science Technology 3. Physica Scripta	2018
19.	Dr. Sankalita BIswas	Ph.D.	Sr.Asst. Professor	As a Reviewer in Journal	1. International Journal of Electronics (Taylor and Francis), 2. Peer to Peer Networking and Application, Mobile Networks and Applications (Springer), 3. Ad Hoc Networks (Elsevier)	2018
20.	Dr. Anil Kumar Soni	Ph.D.	Associate Professor	As a Reviewer in Journal	Journal of Testing and Evaluation	19-07-2018
21.	Dr. Anil Kumar Soni	Ph.D.	Associate Professor	As a Reviewer in Journal	Measurement	13-02-2019

S.No	Name of the Faculty member	Qualification	Designation	Type of Assignment	Details of Assignment	Period From to
22.	Dr. Sumit Kale	Ph.D.	Sr.Asst. Professor	As a Reviewer in Journal	1. IEEE Transactions on Electron Devices, 2. IEEE Transactions on Very Large Scale Integration Systems, 3. IET Electronics Letters, 4. Elsevier Super lattices and Microstructures, 5. Elsevier Microelectronics and Engineering,	2018
23.	Dr. K. R Kashwan	Ph.D.	Professor	Ph.D Viva Board Meeting	Attended in the capacity of chairman of the Doctoral Committee to conduct meeting to assess program of research scholar conducting viva-voce exam. Sona college of technology ,Salem-Tamil Nadu.	2018-2019

Publication Incentives:

The list of faculty members who received incentives from the Institute for their paper publications in various National and International Journals in the academic year 2018-2019 are given below:

S. No.	Name	Period	Amount
1	Dr. Debashish Dash	October 2018-June 2019	15000
2	Dr. Jyothi P Patra	October 2018-June 2019	15000
3	Dr. Sankalita Biswas	October 2018-June 2019	15000
4	Dr. Shanidul Hoque	October 2018-June 2019	15000
5	Dr. R. Sitharthan	October 2018-June 2019	24000
6	Dr. Sumit kale	October 2018-June 2019	25000
7	Dr. Gaurav Varshney	October 2018-June 2019	24000
8	Dr. Sunandita Debnath	October 2018-June 2019	15000
9	Dr. Madhusmita Mishra	October 2018-June 2019	25000
10	Dr. S. Rajasekharan	October 2018-June 2019	5333
11	Mr. K. Rahim Bakash	October 2018-June 2019	3333
12	Dr. Ravi Shankar	October 2018-June 2019	15000

List of Faculties who have successfully completed Mooc's Courses (FDPs):

The faculties who have successfully completed Swayam NPTEL courses as faculty development programme during the academic year 2018-2019 are listed below:

S.No.	Session	Name of the Faculty Member	Name of the NPTEL Course	Duration in No. of Weeks	Equivalence of NPTEL course with regular FDP
1	Jan - Apr - 2019	Dr. S A K JILANI	Programming, Data Structures and Algorithms using Python	08 Weeks	1
2	Jan - Apr - 2019	Dr. S A K JILANI	Joy of computing using Python	12 weeks	1.5
3	Jan - Apr - 2019	Dr. PRATIK MONDAL	Antennas	12 weeks	1.5
4	Jan - Apr - 2019	Dr. SUBBARAO GENIKALA	Antennas	12 weeks	1.5
5	Jan - Apr - 2019	Dr. SAMBASIVA RAO KAMBALA	Introduction to Photonics	12 weeks	1.5
6	Jan - Apr - 2019	Dr. CHANDRAMAULESHWAR ROY	CMOS Digital VLSI Design	08 Weeks	1
7	Jan - Apr - 2019	Dr. VIVEK KAJAGAR	CMOS Digital VLSI Design	08 Weeks	1
8	Jan - Apr - 2019	Dr. KUMAR MANOJ	CMOS Digital VLSI Design	08 Weeks	1
9	Jan - Apr - 2019	SHAIK SHAKIR BASHA	CMOS Digital VLSI Design	08 Weeks	1
10	Jan - Apr - 2019	Dr. SUMIT KALE	CMOS Digital VLSI Design	08 Weeks	1
11	Jan - Apr - 2019	Dr. VIKAS VIJAYVARGIYA	CMOS Digital VLSI Design	08 Weeks	1
12	Jan - Apr - 2019	Dr. KUMAR MANOJ	Principles Of Human Resource Management	08 Weeks	1
13	Jan - Apr - 2019	Dr. RANJEET KUMAR	Principles Of Human Resource Management	08 Weeks	1
14	Jan - Apr - 2019	Dr. K. SATHESH	Principles of Signals and Systems	12 Weeks	1
15	Jan - Apr - 2019	Dr. B. GOPINATH	Computer Architecture and Organization	12 Weeks	1.5
16	Jan - Apr - 2019	Dr. RANJEET KUMAR	Principles of Signals and Systems	12 Weeks	1

17	Jan - Apr – 2019	Dr. M. KARTHIKEYAN	Principles of Signals and Systems	12 Weeks	1
18	Jan - Apr – 2019	Dr. P RAMANATHAN	Computer Architecture and Organization	12 Weeks	1.5
19	Jan - Apr – 2019	Dr. REMASHAN KARIYADAN	Fundamentals of Semiconductor Devices	12 Weeks	1.5
20	Jan - Apr – 2019	Dr. G. SOUNDARA PANDIAN	Cell Culture Technologies	08 Weeks	1
21	Jan - Apr - 2019	Dr. ANIL KUMAR SONI	Principles of Signals and Systems	12 Weeks	1
22	Jan - Apr - 2019	Dr.DHEEREN KU MAHAPATRA	Principles of Signals and Systems	12 Weeks	1

List of Faculties who are among top 1%/2%/5% in Swayam NPTEL courses (FDPs)

The faculties who are among top 1%/2%/5% in Swayam NPTEL courses (Faculty Development Programme) during the academic year 2018-2019 are listed below:

S.No.	Academic Year	Name of the Faculty Member	Name of the NPTEL Course	Topper (1 % / 2% / 5 %)
1	Jul - Dec 2018	Dr. SATRUGHAN KUMAR	Digital Image Processing	Topper of 5% in this course
2	Jan - Apr 2019	Dr. G SOUNDRA PANDIAN	Cell Culture Technologies	Topper of 5% in this course
3	Jan - Apr 2019	Dr. P RAMANATHAN	Computer Architecture and Organization	Topper of 1% in this course
4	Jan - Apr 2019	Dr S A K JILANI	Joy of computing using Python	Topper of 5% in this course
5	Jan - Apr 2019	Dr. REMASHAN KARIYADAN	Fundamentals of semiconductor devices	Topper of 2% in this course
6	Jan - Apr 2019	Dr. JYOTI PRASANNA PATRA	Principles of Signals and Systems	Topper of 5% in this course
7	Jan - Apr 2019	Dr. DHEEREN KU MAHAPATRA	Principles of Signals and Systems	Topper of 5% in this course
8	Jan - Apr 2019	Dr. LUCKY AGARWAL	Introduction to Photonics	Topper of 2% in this course

List of Guest Lectures and Seminars:

Date	Topic	Resource Person Name and Address	Organizer Name/ Level of the Event
29 th September 2018	Seminar on Recent Trends in Robotics Research	Mr. Nitesh Tuddu, Jr. Scientist, Sakrobotix Lab Pvt. Ltd., Startup Centre, IIT Bhubaneswar.	ISTE Students Chapter/Institute Level
15 November 2018.	Guest Lecture on Emerging 5G Research and Developments	Mr A.T Kishore (Ex IAF officer), Principle Consultant Telecom, UTL Technologies, Bangalore.	ISTE Students Chapter/Institute Level
27th November 2018.	Guest Lecture on "Image Processing and Artificial Intelligence in multi-resolution image recognition and understanding"	Dr. Malay Nema, Scientist 'F' in DRDO- (Centre of Artificial Intelligence and Robotics Laboratory).	ISTE Students Chapter/Institute Level
10th January 2019	One day Guest Lecture	MITS Alumni Ms. K. Manasa.	ECE Department, MITS
2nd February 2019	One day Seminar on "Challenges in Signal and Power Integrity for Server Design"	Dr. Nikita Ambasana, Team Lead (Intel Corporation), Bangalore	ECE Department, MITS
22nd February 2019	A Guest Lecture on "Opportunities in Machine Tool and Automation Engineering, IoT and Robotics"	Mr. H. S. Manjunath (India Head, FANUC India Limited) and Mr. K. P. Sandeep (Head, Andhra Region, FANUC India Limited).	ISTE Students Chapter/Institute Level

List of Symposium organized:

Date	Topic	Resource Person Name and Address	Organizer Name/ Level of the Event
3rd April 2019	One Day National Level Technical Symposium & Project Expo	Dr. Shiv Narayan, Senior Scientist, CSIR-NAL, Bangalore	IEEE Students Chapter and ISTE Student Chapter/ National Level

List of Workshops organized:

Date	Topic	Resource Person Name and Address	Organizer Name/ Level of the Event
3-4, October 2018	TEQIP-II sponsored Workshop on “Effective Communication Management & Significance of IELTS”	Prof. K J Christopher Babu, (Director, VIP International Training Institute (Regd.), Adambakkam, Chennai).	ECE Department, MITS
11 th to 13 th October 2018.	Workshop on Robotics and Inauguration of Centre of Excellence in Robotics (COER)	Dr. Subhasish Mahapatra, Coordinator, COER	ISTE Students Chapter/Institute Level
2 nd to 4 th November 2018	Workshop on Robotics	Dr. Subhasish Mahapatra, Coordinator, COER	ISTE Students Chapter/Institute Level
17 th November 2018	TEQIP-II and IEEE-MITS Student Branch sponsored one day Workshop on Recent Trends in Cyber Security	Prof. K. R. Kaswan (Dean-Department of ECE & EEE, MITS), Dr. V. L. Pavani (HOD, MCA, MITS), Dr. Anil Kumar Soni (coordinator, MITS), Dr. Vikas Vijayvargiya (Research Head, Dept. of ECE, MITS), Mr. Lucky Agrwal (Incharge-Faculty Details, Dept. of ECE, MITS) and the Chiefguest/speaker Mr.	ECE Department, MITS

		Virendra Pandey (Senior Manager, Cisco-INDIA, Bangalore)	
5th & 6th March 2019	Workshop: "Embedded Systems principles and Its applications"	Mr. R.P. Chetan, ERT Technical Services, Bangalore	ECE Department, MITS
17.11.2018	Workshop on Recent Trends in Cyber Security	Mr. Virendra Pandey, Senior Manager in Cisco Network, Bangalore.	IEEE Students Chapter / Institute Level

Hands on Training/ Awareness Programme

The list of hands-on training/awareness programme organized by the ECE department in the academic year 2018-2019 is listed as follows:

1. The Right Way to Learn and Get Jobs at Top Tier Software Companies was Organized by Department of Computer Science & Engineering and Department of Electronics & Communication Engineering 11th February 2019. Industry Institute Interaction Cell, Mr. Vasu Sriramdas, CEO Edyst and Mr Randhir Pallai, Head College & Corporate Relations, Edys are the resource persons

Details of Industrial Visits:

S.No	Industry/Visit Details	Visit Date	No. of Students
1.	National Atmospheric Research Laboratory (NARL),Chittoor.	26 th of April, 2019	75
2.	NOKIA, R&D lab	15 th of April, 2019	11
3	UR Rao, Satellite Centre, ISRO, Bangalore	26 th of July, 2018	60
4	UR Rao, Satellite Centre, ISRO, Bangalore	7 th of August, 2018	60