



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 2015- 2016)

List of Funded Research Project Grants Received:

The faculties who received grants for the Research projects in the academic year 2015-2016 are given below:

| S. No | Name of the Principal Investigator | Sanctioned Letter Number with date | Funding Agency | Project Title | Duration of the Project | Total Sanctioned Amount | Status of Project |
|-------|--|--|--------------------------|---|-------------------------|-------------------------|-------------------|
| 1. | Dr. J. L. Mazher Iqbal | File No. 43-295/2014(SR), dated:29.12.2015 | UGC – SERO major Project | 3DIntelligent Information System for Identifying Suspicious Activity | 3 Years | Rs.3,70,000/- | Completed |
| 2. | Dr.S.A.K.Jilani Dr.S.Javeed Hussain | File No.SR/CSRI/61/2015, dated:11.05.2016 | DST-CSRI | Design and Development of Brain Test Adequacy System to Improve Cognitive Index of Young India Using Non-Invasive Brain Sensor and Artificial Neural Networks | 3 Years | Rs.26,69,600/- | Ongoing |

List of Paper Publications:

The faculties who have published papers in various journals/conferences during the academic year 2015-2016 are listed below:

| Faculty Name | Title | Journal Name | ISBN/ISSN/DOI | Volume/Date | Page Numbers | Scopus/Sci GS Citations |
|-------------------------------------|---|--|--|---|--------------|-------------------------|
| Dr A.R.Reddy, Professor & HOD | Design and Simulation of Timer Core Using SPARTAN-3E | Proceedings of National Conference on Wireless Communication Systems Conducted by Dept. of ECE, MITS, Madanapalle | ISBN-978-93-85100-27-7 | Jan. 27 th – 28 th , 2016 | 63-66 | -- |
| | Design and Analysis of Integer Divider Using Non-Restoring Division Algorithm | Proceedings of National Conference on Wireless Communication Systems Conducted by Dept. of ECE, MITS, Madanapalle | ISBN-978-93-85100-27-7 | Jan. 27 th – 28 th , 2016 | 163-167 | -- |
| | Implementation of 128-bit AES algorithm in MATLAB | International Journal of Engineering Trends and Technology (IJETT) | ISSN: 2231-5381 | Volume 33 Number 3-March 2016 | 126-129 | -- |
| | Multi precision Arithmetic Adders | Proceedings of International Conference On Computer communication and Informatics (ICCCI-2016), Coimbatore, India. | ISBN No. 978-1-4673-6680-9/16 2016 IEEE | JAN. 07 – 09, 2016 | | -- |
| | Performance Comparison of Network on Chip methods | Proceedings of International Conference On Innovations In Information Embedded And Communication System (ICIIECS'16) | ISBN no. 978-14673-8208-3/CFP1572Z-ART 2016 IEEE | Mar 17 2016 | | -- |
| | Survey on Edge detection and characterization of Tumor in MRI | Proceedings of National Conference on Wireless | ISBN-978-93-85100-27-7 | Jan. 27 th – 28 th , 2016 | 129-137 | -- |

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|----------------------------------|---|---|---|---|---------|--------|
| Dr. M.Thamarai, Professor | Images using Xilinx System generator. | Communication Systems Conducted by Dept of ECE, MITS, Madanapalle | | | | |
| | Segmentation of Brain Tumor Affected cells using Simulink model. | Proceedings of National Conference on Wireless Communication Systems Conducted by Dept. of ECE, MITS, Madanapalle | ISBN-978-93-85100-27-7 | Jan. 27 th – 28 th , 2016 | 205-210 | -- |
| | Analysis of Multi Spectral Image Compression. | Proceedings of National Conference on Wireless Communication Systems Conducted by Dept. of ECE, MITS, Madanapalle | ISBN-978-93-85100-27-7 | Jan. 27 th – 28 th , 2016 | 274-277 | -- |
| | An Improved Image Fusion and segmentation using FLICM with GA for Medical Diagnosis | Indian Journal of Science and Technology | ISSN:0974-5645. | vol.9, Issue12, March 2016 | 1-10 | SCOPUS |
| Dr. S.A.K.Jilani Professor | Smart Surveillance System using Thing Speak and Raspberry Pi | International Journal Of Advanced Research in Computer and Communication Engineering | Online ISSN:: 2278-1021 Print ISSN: 2319-5940 | Vol. 4, Issue 7, July 2015 | 214-218 | -- |
| | Replication and Studyof Kapagene Generator | International Journal of Engineering Trends and Technology (IJETT) | ISSN:2231-5381 | Volume 28 Number | 116-122 | -- |
| | SMA's and their applications | Proceedings of National Conference onWireless Communication Systems Conducted by Dept. of ECE, MITS, Madanapalle | ISBN-978-93-85100-27-7 | Jan. 27 th 28 th , 2016 | 123-128 | -- |

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| | A Real-Time Image Mosaicing Using Scale Invariant Features Transform | Proceedings of National Conference on Wireless Communication Systems Conducted by Dept. of ECE, MITS, Madanapalle | ISBN-978-93-85100-27-7 | Jan. 27 th – 28 th , 2016 | 192-196 | -- |
| | Teaching Methods of Braille Script | Proceedings of National Conference on Wireless Communication Systems Conducted by Dept. of ECE, MITS, Madanapalle | ISBN -978 -93 - 85100 - 27 - 7 | Jan. 27 th – 28 th , 2016 | 211 -213 | -- |
| Dr. K. Sakthisudhan Sr. Assistant Professor | Certain Study on Improvement of Bandwidth in 3GHz Microstrip Patch Antenna Designs and Implemented on Monostatic Radar Approach for Breast Cancer Diagnosis in Microwave Imaging System | Journal of Circuits, Systems and Computers, Springer and World Scientific Publication | Print ISSN:: 0218 1266, Online ISSN:: 179 3 6454, | vol. 24, ISS UE No. 2, February, 2016 | 1650006-1- 32 | SCOPUS |
| | A Roadmap to the Realization of Wireless Body Area Networks: A Review | IEEE International Conference on Electrical, Electronics & Optimization Techniques (ICEEOT) at DMI College of Engineering, Chennai | 2016.: XPLORE COMPLIANT - CFP16E71 -ART - 978 - 1 - 4673 - 9939 - 5 | 3 rd - 5 th March, 2016. | 439 -443 | -- |
| Dr. Dinesh Sharma, | Health Monitoring Systems by Wireless Sensor Network | Proceedings of National Conference on Wireless Communication Systems Conducted by Dept. of ECE, MITS, Madanapalle | ISBN -978 -93 - 85100 - 27 - 7 | Jan. 27 th – 28 th , 2016 | 260 -264 | -- |

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|--|---|---|--|------------------------------------|------------|--------|
| Associate Professor | Survey on different Flight Data Recording System for Unmanned Aerial Vehicle | Proceedings of National Conference on Wireless Communication Systems Conducted by Dept. of ECE, MITS, Madanapalle | ISBN -978 -93 - 85100 - 27 - 7 | Jan. 27th – 28th , 2016 | 269 -273 | -- |
| Mr. M Jagadeesh Babu, Assoc. Professor | Calculation of Path Losses at CM3 for Wireless Body Area Networks (WBAN) by using Different Types of Antennas | International Journal of Applied Engineering Research (IJAER) | Print ISSN: 0973-4562, Online ISSN: 1087--1090 | Vol. 11 Issue 7 Apr. 2016 | 5210- 5217 | SCOPUS |
| | Real Time Monitoring of Water Level Variations In Rivers and Flood Alerting System using Arm7 | International Journal of Advanced Research in Computer and Communication Engineering | Online:2278- 1021 Print: 2319 5940 DOI: 10.17148/IJARCC E.2015.4 885 | 08/2015 | 392-396 | -- |
| Mr. B Sukumar Assoc. Professor | Application For Industrial Platform Using Iot Environment Through Wsn | International Journal of Advanced Research in Electronics and Communication Engineering | ISSN:2278 – 909X | Volume 4, Issue 12, Decemb er 2015 | 2855- 2859 | -- |
| | Prediction of Volcano Hotspots using an Improved Third Term Optical Back Propagation Algorithm | International Journal of Advanced Research in Electronics and Communication Engineering | ISSN:2278 – 909X | Volume 4, Issue 12, Decemb er 2015 | 2894- 2897 | -- |
| Mr. M. Sreenath Reddy Asst.Professor | Bank Locker System using Arduino | Proceedings of National Conference on Wireless Communication Systems Conducted by Dept. of ECE, MITS, Madanapalle | ISBN-978-93-85100-27-7 | Jan. 27th – 28th , 2016 | 151-156 | -- |
| | Implementation Of Solid State Power Amplifier At 400MHZ | Proceedings of National Conference on Wireless Communication Systems Conducted by Dept. of ECE, MITS, Madanapalle | ISBN-978-93-85100-27-7 | Jan. 27th – 28th , 2016 | 89 -93 | -- |

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| Mr. V.Sai Kumar, Asst. Professor | Temperature Programmable Suit using Thermoelectric Cooler/Heater | SSRG International Journal of Electronics and Communication Engineering (SSRG -IJECE) | ISSN:2348 –8549 | Volume 2 Issue 7 – July 2015 | 72 -75 | -- |
| | Arduino Home Automation Using IOT | Proceedings of National Conference on Wireless Communication Systems Conducted by Dept. of ECE, MITS, Madanapalle | ISBN-978-93-85100-27-7 | Jan. 27th – 28th , 2016 | 253 -254 | -- |
| Ms. C.K.Hemantha Lakshmi Asst.Professor | Passenger friendly transport system using zigbee as communication medium | International Journal of Engineering Research - Online | ISSN:2321 -7758 | Vol.3., Issue.5., 2015 (Sept. - Oct.) | 491 -494 | -- |
| Mr. J.T.Pramod Asst.Professor | Survey of Speech Denoising Algorithms | Proceedings of National Conference on Wireless Communication Systems Conducted by Dept. of ECE, MITS, Madanapalle | ISBN-978-93-85100-27-7 | Jan. 27th – 28th , 2016 | 235 -238 | -- |
| Mr. S.Arun Asst.Professor | Abnormal Human Activity Recognition using Scale Invariant Feature Transform | International Journal of Current Engineering and Technology | Online ISSN:: 2277 – 4106, Print: ISSN: 2347 – 5161 | Vol.5, Issue .6 Dec 2015 | 3748 - 3751 | -- |
| | Traffic Control System using Hand Gesture Recognition | Proceedings of National Conference on Wireless Communication Systems Conducted by Dept. of ECE, MITS, Madanapalle | ISBN-978-93-85100-27-7 | Jan. 27th – 28th , 2016 | | -- |
| Mr. B.Vamsi Krishna Asst.Professor | ARDUINO Based Wireless Security System For Coal Mining Workers | International Journal of Advent Research in Computer and Electronics (IJARCE) | Online ISSN: 2348 - 5523 | Vol. 2, No. 8, August 2015 | 28 -31 | -- |

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|---|--|---|--|-----------------------------------|-----------|----|
| Dr. Purnima.K. Shar ma Sr. Asst. Professor | Digital Image Watermarking: An Approach by Different Transforms using Level Indicator. | 2015 IEEE International conference on communication, control and Intelligent Systems (CCIS). | ISBN 978 - 1 - 4673 -7541 - 2/15 | Nov. 07th - 08th 2015 | 277 -281 | -- |
| | Recent Developments in Wireless Technology | Proceedings of National Conference on Wireless Communication Systems Conducted by Dept. of ECE, MITS, Madanapalle | ISBN-978-93-85100-27-7 | Jan. 27th – 28th , 2016 | 265 -268 | -- |
| | Channel Model Scenarios in Wireless Body Area Networks | Proceedings of National Conference on Wireless Communication Systems Conducted by Dept. of ECE, MITS, Madanapalle | ISBN-978-93-85100-27-7 | Jan. 27th – 28th , 2016 | 288-294 | -- |
| Mr. R. Ravindraiah, Asst. Professor | Detection Of Exudates In Diabetic Retinopathy Images Using Laplacian Kernel Induced Spatial FCM Clustering Algorithm | Proceedings of National Conference on Wireless Communication Systems Conducted by Dept. of ECE, MITS, Madanapalle | ISBN-978-93-85100-27-7 | Jan. 27th – 28th , 2016 | 157-162 | -- |
| Mr. D.Girishkumar, Asst. Professor | Home Automation through E- Mail Using Raspberry Pi | International Journal of Advanced Research in Electronics and Communication Engineering (IJARECE) | ISSN:2278 –909X | Volume 4, Issue 9, September 2015 | 2475-2480 | -- |
| Mr.P.R. Ratna Raju.K Asst. Professor | An Automated ThingSpeak System representing MPU6050 Sensor data using Raspberry PI | International Journal of Engineering Trends and Technology (IJETT) | ISSN:2231-5381 doi: 10.14445/22315381/IJETT- V29P206 | Volume-29 Number-1: 2015 | 29-34 | -- |

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|--|---|---|---|--------------------------------------|-----------|----|
| | Low Power Medium Gain Operational Transconductance Amplifier | Proceedings of National Conference on Wireless Communication Systems Conducted by Dept. of ECE, MITS, Madanapalle | ISBN-978-93-85100-27-7 | Jan. 27th – 28th , 2016 | 225-228 | -- |
| Dr. M. Mahesh | Torn Paper Combining Using Binary Image Processing | Proceedings of National Conference on Wireless Communication Systems Conducted by Dept. of ECE, MITS, Madanapalle | ISBN-978-93-85100-27-7 | Jan. 27th – 28th , 2016 | 239-246 | -- |
| Dr. Gautam Narayan, Assoc. Professor | Statistical analysis of Supersonic downflows in sunspot penumbrae. | IAU General Assembly | 2015IAUGA..2254868K | Vol. 22 Aug 2015 | 54868 | -- |
| Mr. S.Javeed Hussain, Assoc. Professor | Real Time Object Counting using Raspberry pi | International Journal of Advanced Research in Computer and Communication Engineering | Online ISSN:: 2278-1021 Print ISSN::2319 5940 | Vol. 4, Issue 7, July 2015 | 540-544 | -- |
| Ms.G.NagaS wetha Asst. Professor | ARM9 based driving license verification system | International Journal of Advanced Research in Electronics and Communication Engineering (IJARECE) | ISSN:2278 – 909X | Volume 4, Issue 8, August 2015 | 2111-2114 | -- |
| G. Samba Siva Rao Asst.Professor | Design and Simulation of Dual Band Planar Inverted F Antenna (PIFA) For Mobile Handset Applications | International Journal of Antennas (JANT): | ISSN:2455-7897 | Vol.1, No. 1, 2015 | 37-48 | -- |

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|-------------------------------------|--|---|------------------------|---|-----------|--------|
| | Design of Power Efficient Digital Systems Using Adiabatic Techniques | International Journal of Advanced Research in Electronics and Communication Engineering (IJARECE) | ISSN:22789X | Volume 5, Issue 1, January 2016 | 132-143 | -- |
| | Design of Low Power Incrementors Using Adiabatic Techniques | Proceedings of National Conference on Wireless Communication Systems Conducted by Dept. of ECE, MITS, Madanapalle | ISBN-978-93-85100-27-7 | Jan. 27 th – 28 th , 2016 | 187-191 | -- |
| P.Sravan Kumar Asst. professor | Pilgrim identification system based on rfid | International Journal of Embedded & VLSI System | ISSN:2349 8129 | Volume 4, Issue 8 Aug 2015 | 1-12 | -- |
| Mr. U. Sreenivasulu Asst. Professor | Automated Color Recognition System for Visually Challenged and Achromatopsia People using Arduino and Mobile App | International Journal of Advanced Research in Electronics and Communication Engineering (IJARECE) | ISSN:2278 – 909X | Volume 4, Issue 8, August 2015 | 2106-2110 | -- |
| | Achieving QOS requirements using evolutionary computation scheduling schemes in 802.16 networks | Journal of Theoretical and Applied Information Technology | ISSN:1992-8645 | Vol. 83. No. 3 – 2016 | 345-352 | SCOPUS |

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|--------------------------------------|---|---|------------------------|---|---------|----|
| | Raspberry Pi Sense Hat Based Industrial Automation Using IOT | Proceedings of National Conference on Wireless Communication Systems Conducted by Dept. of ECE, MITS, Madanapalle | ISBN-978-93-85100-27-7 | Jan. 27 th – 28 th , 2016 | 250-252 | -- |
| Mr. Issac Gabriel Asst. Professo | LOS Identification Using Wi-Fi | Proceedings of National Conference on Wireless Communication Systems Conducted by Dept. of ECE, MITS, Madanapalle | ISBN-978-93-85100-27-7 | Jan. 27 th – 28 th , 2016 | 295-303 | -- |
| Mr. R. Madhu krishna Asst. Professor | Design of MIMO Fading Channel Models in SIMULINK for Different Modulation Schemes | Proceedings of National Conference on Wireless Communication Systems Conducted by Dept. of ECE, MITS, Madanapalle | ISBN-978-93-85100-27-7 | Jan. 27 th – 28 th , 2016 | 307-313 | -- |
| Mrs. G.R.H emantha, Asst. Professor | Real-Time Face Detection On A Raspberry Pi Robot | Proceedings of National Conference on Wireless Communication Systems Conducted by Dept. of ECE, MITS, Madanapalle | ISBN-978-93-85100-27-7 | Jan. 27 th – 28 th , 2016 | 255-259 | -- |
| | Biometric based globalized electronic voting Machine using arm | Proceedings of National Conference on Wireless Communication Systems Conducted by Dept. of ECE, MITS, Madanapalle | ISBN-978-93-85100-27-7 | Jan. 27 th – 28 th , 2016 | 58-62 | -- |

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|---|---|---|--|---|---------|--------|
| Mr. D.Bala Krishna Reddy | Massive MIMO: Issues and Challenges | Proceedings of National Conference on Wireless Communication Systems Conducted by Dept. of ECE, MITS, Madanapalle | ISBN-978-93-85100-27-7 | Jan. 27 th – 28 th , 2016 | 197-200 | -- |
| | Effective Channel State Information (CSI) For MIMO Systems in Wireless Broadband Communications | Proceedings of National Conference on Wireless Communication Systems Conducted by Dept. of ECE, MITS, Madanapalle | ISBN-978-93-85100-27-7 | Jan. 27 th – 28 th , 2016 | 201-204 | -- |
| Dr.J.L.Mazher Iqbal, Professor | IOT Based Intelligent Medicine Box | Proceedings of National Conference on Wireless Communication Systems Conducted by Dept. of ECE, MITS, Madanapalle | ISBN-978-93-85100-27-7 | Jan. 27 th – 28 th , 2016 | | -- |
| | Intelligent Medicine Box With Weight Management And Alerting | International Journal of Applied Engineering Research | Print ISSN 0973-4562. Online ISSN 1087--1090 | Vol.10 Issue:87 Dec. 2015 | 139-145 | SCOPUS |
| | Automatic Vehicle Accident Detection and Reporting With Black Box | International Journal of Applied Engineering Research | Print ISSN 0973-4562. Online ISSN 1087--1090 | Vol.33 Issue:17 Jan. 2016 | 1-7 | -- |
| Dr. G. Hari Krishnan, Sr. Asst. Professor | Cerebrovascular disorder diagnosis using MR angiography | Biomedical Research | ISSN:0970-938X | Vol. 27 Issue No.2 2016 | 584-586 | SCOPUS |

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|---------------------------------------|---|--|---|--|--|----|
| | Heart Rate Extraction from Electrical Bioimpedance signa | BSSI2016, International Conference, IIT Madras | | Feb 24 th - 26 th , 2016 | | -- |
| Mr. M. Venkata Srinu, Asst. Professor | Real Time Car Parking System and Parking Fee Display Using Raspberry Pi | International Journal of Research | p-ISSN: 2348-6848 e-ISSN: 2348-795X | Volume 03 Issue 04 February 2016 | | -- |
| Mr. L. Ashok, Asst. Professor | Biometric Method for Safe Driving and Security purpose | International Journal of Computational Science, Mathematics and Engineering (IJCSME) | E-ISSN-2349-8439, DOI: 10.18645/IJC SME.211.004 | Volume-2 Issue11- November-2015 | | -- |
| Dr. R.S.Rao, Asst Professor | Microwave Engineering | Book Second Edition, PHI | ISBN:978-81-203-5159-2 | Sep.2015 | | -- |

List of Guest Lectures and Seminars organized:

The list of faculties who have organized workshop in the academic year 2015-2016 are listed as follows:

| Date | Name | Resource Person Name and Address | Organizer Name |
|------------|--|--|-------------------------|
| 6/8/2015 | One day Guest lecture on Emerging trends in LiFi technologies | Dr. G. Hari Krishnan, Associate Professor, Department of Electronics and Communication Engineering, MITS | Department of ECE, MITS |
| 14 /9/2015 | One day Guest lecture on Effect of Laser in Communication Fundamentals | Prof. Basava Reddy, NTT Technologies, Bangalore. | Department of ECE, MITS |
| 17/10/2015 | One day Seminar on “Wireless Power Transmission Technology” | Dr. Roshan Kumar Assistant Professor, Dept. of ECE, MITS | Department of ECE, MITS |
| 28/1/206 | One day Guest lecture on Advanced Concepts in Web Technologies | Mr. Sarin, director of “GUPTHA Engineering Pvt. Ltd”, Cochin. | Department of ECE, MITS |
| 28.03.2016 | One-day Guest Lecture on “Automation and Control Systems” (ISTE student chapter on 28th March 2016 in coordination with the Industry Institute Interactive Cell (IIC) and sponsored by TEQIP-II) | Mr Bala Krishna Singam, Assistant Vice President, Essential Energy, Bangalore. | Department of ECE, MITS |
| 30.3.2016 | One day guest lecture on “Super Capacitors and their Applications” | Dr. I. Gopinath, BE, MS, Ph.D, working under SHAR center of ISRO. | Department of ECE, MITS |
| 6/4/2016 | One-Day Guest Lecture on “Microcontrollers & Applications (Coordination with the Industry Institute Interactive Cell (IIC) and sponsored by TEQIP-II) | Mr. Chetan R P, Director, ERT Tech. Services, Bangalore. | Department of ECE, MITS |

List of Conferences organized:

| Date | Name | Resource Person Name and Address | Organizer Name |
|---------------------------|--|---|----------------------------|
| 27th – 28th January, 2016 | A Two-Day National Conference on Wireless Communication Systems (Sponsored by DST-Science and Research Engineering Board, New Delhi) | Dr. M.Thamarai, Convenor NCWCS'16, Chief Guest Dr K R Venugopal, Chair Person: Dr. T Lalith Kumar, Associate Professor, Annamacharya Institute of Technology and Sciences, Kadapa Dr.T.Selvaraj, Associate Professor, Panimalar Institute of Technology, Chennai, Mrs V Komaladevi Yogananda Institute of Technology and Science, Tirupathi | Department of ECE, MITS |

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List of Symposiums organized:

| Date | Name | Resource Person Name and Address | Organizer Name |
|-------------|---|---|-----------------------|
| 29.03.2016 | One Day National Level Technical Symposium & Project Expo | ECE Department, MITS | ECE Department, MITS |

List of Workshops organized:

| Date | Name | Resource Person Name and Address | Organizer Name |
|--------------------------|-----------------------------------|--|---|
| 30/05/2016 to 04/06/2016 | A Six Day Workshop on VLSI Design | Dr. M. Thamarai, Convener of the workshop, Professor, ECE department MITS, Dr. V. Sreehari, and Mr. Sai Phaneendra P, BITS Pilani, Hyderabad Campus. | Dr. M. Thamarai, Professor and Mr. M. Karthikeyan, Assistant Professor, Dept. of Electronics & Communication Engg, MITS |