|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **Curriculum Vitae** | | | | | |
| **Name:** |  | **Dr. Makkena Madhavi Latha** | | | | | |
| **Mother’s Name:** | | Smt. Makkena Devaki Devi | | | | | |
| **Father’s Name:** | | Late Sri. Makkena Krishna Murthy | | | | | |
| **Husband’s Name:** | | Sri. Lavu Tirumaleshwara Prasad | | | | | |
| **Date of Birth:** | 01-06-1966 | |  |  |  |  |  |
| **Address for** | **Communication** | | **Permanent Address** | | | | |
| **Dr. Makkena Madhavi Latha** | | | **Dr. Makkena Madhavi Latha** | | | | |
| Professor in ECE & | |  | W/o. L. T. Prasad | | | | |
| Former Director, Innovative Technologies | | | Villa No:49, Aparna County | | | | |
| JNTUniversity Hyderabad | |  | Mathrusri Nagar | | | | |
| Kukatpally, Hyderabad – 85 | |  | Miyapur, Hyderabad-500084 | | | | |
| Telangana State, INDIA | |  | Telangana State, INDIA | | | | |
| **Email:** |  | mlmakkena@yahoo.com, mlmakkena@ieee.org, | | | | | |
|  |  |  | |  |  |  |  |
|  |  | mmadhavilatha@jntuh.ac.in | | | |  | |
| **Phones:** |  | 040 – 23048589 (R), 09848506611 (Cell) | | | | | |
| **Personal:** | Dynamic, Ambitious, Computer savvy, Adaptive & a keen learner, | | | | | | |
|  | Optimistic Personality with a positive outlook, Hardworking, | | | | | | |
|  | Honest & Humble. | |  |  |  |  |  |



**Educational Qualifications:**

1. Ph. D (Wavelet Transforms & Their Applications to Various Types of Signals) - JNTU – 2002
2. M. Tech ( Digital Systems & Computer Electronics) – First Class with Distinction – JNTU – 1993
3. B. E ( E. C. E) –First Class – Nagarjuna University - 1986

**Awards Received:**

**National:**

1. Received **State Best Teacher** Award from Govt. of Andhra Pradesh in 2013- First Woman Professor in Engineering in united Andhra Pradesh.

**International:**

1. IEEE Women in Engineering Appreciation
2. Exchange Visitor Award, USA
3. Best Paper Presentation Award-WAIRCO, Sri Lanka, 2015
4. External Examiner to Harare Institute of Technology, Zimbabwe

**Other Qualifications:**

* Certificate Course in UNIX & C Languages
* Certificate Course in VHDL Programming
* MATLAB Programming and development of various algorithms related to SDR, Beamforming, 5G, Image processing etc
* Knowledge on Verilog Programming and FPGAs
* Practical knowledge on TMS320C54xx & 6711 Processors
* Knowledge on Python Programming
* Hands-on knowledge on NI Labview & ELVIS-II

**Experience:**

1. Worked as Lecture in C. R. Polytechnique, Ch'Pet, Guntur for 3 years
2. Worked as Engineer in Powertronics, Hyderabad for 1 year
3. MID-Field Steels Pvt. Ltd., Hyderabad for 1 year
4. Worked as Graduate Engineer in E. C. I. L, Hyderabad for about 1 year
5. Joined as Assistant Professor in JNTU on 4th October, 1994
6. As Assistant Professor in JNTU, Hyderabad from 4th Oct 1994 31st May 2003
7. As Associate Professor in JNTU, Hyderabad from 31stMay 2003 – 9th November 2006
8. Guest Faculty for UG Course at I.I.I.T, Hyderabad during 2002 & 2003
9. Working as Professor in JNTU CEH from 9th November 2006 to till date

**Total experience: 28 Years**

* **In teaching: 25 years 2 Months (JNTUH)**
  + **3 (CR Polytechnique College) years&**
* **In Industry: + 3 years.**
* **Research Experience: 18 Years**

**R & D Projects Handled/Handling: 09**

**Sanctioned Projects Executed - 4 (Four) Projects**

* AICTE Projects Handled: Principal Investigator for AICTE Sponsored TAPTEC

Project on “Digital Signal Processing” – 2000 for **Rs 3** **–** **00 Lakhs.**

* Principal Investigator for AICTE MODROBS Project on Communication Laboratory for **Rs. 8-00 Lakhs.**
* Coordinator/Principal Investigator for DST-FIST Project for **Rs. 55 - 00Lakhs** during November 2012 in ECE Department, JNTUH CEH.
* *Linneaus Palme project for Bilateral Faculty Exchange,* funded by Swedish Councilfor Higher Education, Sweden - **80000 SEK** (sanctioned in 2014 duration of 2 years).

**Ongoing Projects - 5 (Five) Projects**

* Principal Investigator for AICTE RPS Project on Design of MIMO Hardware Platform to implement Software Defined Radio for **Rs. 12.50 Lakhs,** 2017-2020.
* Principal Investigator for AICTE MODROBS Project on Design and development of Digital Beam-forming System, funded by AICTE-MODROBS - **Rs. 12, 50,000** (2017-2019 for duration of 2 years).
* Principal Investigator for a Project on Design and Implementation of Integrated L & S Band Patch Antenna, funded by TEQIP-III, JNTUH CEH - Rs. 8,00, 000-00 (sanctioned in 2018 duration of 2 years).
* Principal Investigator for a Project on Implementation of High Data Rate Communication based on low power FFT Architecture and Compression Technique, funded by RCI, DRDO, Hyderabad - Rs. 22, 19,500-00 (sanctioned in 2018 duration of 2 years).
* Principal Investigator for AICTE RPS Project on MIMO Software Defined Radio for 4G/5G real time Applications for **Rs. 12,39, 215 Lakhs,** 2018-2019.

**New Laboratories and Centre of Excellences established:**

1. **CVED**
2. **CEAT**
3. **ICC**
4. **BS Lab**
5. **BEE Lab**
6. **e-LSDM studio**

**R & D Consultancy:**

* Development of Solar Desalination System with M/s. Oorja Energy Engineering Services, Hyderabad.

**Research Experience / Field of Interest:**

Guiding Ph. D Students in the area of:

* Signal Processing
* Image Processing
* Speech Processing
* Biomedical Signal Processing
* Wavelet Transform Applications
* Mojette Transform Applications
* VLSI
* Analog & Mixed Signal Design
* Low Power VLSI
* Embedded Systems
* DSP Processors & Controllers
* Communications

**Membership of Professional Bodies:**

1. Life Member MISTE
2. Fellow of IETE – F169872
3. Member of IEEE
4. Chairperson, IEEE Women in Engineering Society, Hyderabad Section, 2010

**Subjects Taught:** **47 Subjects**

1. Electronic Devices & Circuits
2. Electronic Circuits
3. Pulse & Digital Circuits
4. Power & Industrial Electronics
5. Basic Electronics
6. Network Theory
7. Optimization Techniques
8. Computer Organization
9. "C" Programming & Data Structures
10. C++ Programming
11. Programming Methodology & Data Structures
12. Microprocessors & Digital Electronics
13. Systems Programming
14. Advanced Operating Systems
15. Linear & Digital IC Applications
    1. Networks, Signals & Systems
    2. Signals & Systems
    3. Transform Techniques
    4. Digital Signal Processing
    5. Digital Image Processing
    6. Pattern Recognition
    7. Digital Signal Processors & Architectures
    8. VLSI Technology & Design
    9. Speech Processing
    10. Biomedical Signal Processing
    11. Random Processes and Time Series Analysis
    12. MATLAB Programming
    13. Low Power VLSI Design
    14. CMOS Analog Mixed Signal Design
    15. Adaptive Signal Processing
    16. CMOS Analog IC Design
    17. CMOS Digital IC Design
    18. Advanced Digital Signal Processing
    19. 4G Technologies
    20. Digital Systems Design Laboratory
    21. Digital Communications Laboratory
    22. Signal Processing Laboratory
    23. Simulation Laboratory
    24. CPDS Laboratory
    25. Digital Signal Processing Laboratory
    26. EDC Laboratory
    27. LDIC Laboratory
    28. PDC Laboratory
    29. Electronic Circuits Laboratory
    30. C++ Laboratory
    31. E-CAD Laboratory
    32. Digital System Design Laboratory
16. **Tech Projects Guided: 228 (List Enclosed)**

**Ph.Ds Guided: 25**

* 1. Ms. Arti Khaparde- Independent Component Analysis for Images and its Application to Content Based Image Retrieval (2008)
  2. Ms.G. Lakhmi Madhumati – Design and Modelling of Two-Step Flash ADC in 180nm CMOS Technology – 2010-11
  3. Mr. M. Satya Sairam – Hybrid Vector Quantization for Low Bit-rate Speech Coding Applications – 2010-11
  4. Mr. V. Venkat Rao – Development of Multipolynomial, Minkowski Function based Navigation Solutions and the Analysis of Satellite Clock and Relativistic Error Impact on the Navigation Solution for Precise Position Applications – 2011
  5. Ms. S. M. Usha –Modeling and Simulation of Biosensor Arrays for Automated Cancer Detection - Dec 2012
  6. Mr. Kesavan Pillai –Hardware Implementation of Video Water Marking Algorithms, March 2013.
  7. Ms. Esther Rani – Design of Modified Self-Sleep Buffer For Distributed MTCMOS Technique in Arithmetic and Fast Computations- 11-03-2014
  8. Mr. M. Suman – 10304004 - - Enhancement of Compressed Noisy Speech Signal”- 3 July, 2014- KL university, Vaddeshwaram
  9. Mr. K. Hari Kishore – 10304008 – Fault Free Error Coding Technique for Memory Applications- 21 July, 2014- KL University, Vaddeshwaram
  10. Mr. Ch. Raja-0503PH0817 – Off-line Analysis and Estimation of Radar Signal Parameters for creating Electronic Order of Battle Record - 8th Aug, 2014

1. Ms. K. Padma Vasavi – 0803PH0877 – Multi Scale Multi Directional Edge Detection using Statistical Thresholding – August, 2014.
2. Ms. A. G. Padma – 410845EC/PH -ECG Monitoring System for Detection of Arrhythmias and Minimization of Storage requirements using Compression Techniques – November, 2014
3. Mr. M. Manoj Kumar - 0603PH0849 -Real Time Optical Logical Controller using Fuzzy Systems - September, 2015.

14. Ms. P. A. Harshavardhini - 0703PH0858 - "High Performance and

Reconfigurable On-chip Sigma Delta ADC Architecture for Next Generation FPGA Applications", September, 2015.

1. Mr. A. Satish - 0803PH08A46 - Efficient Technique to Minimize Dynamic Power and Crosstalk Delay on On-Chip Data Bus in Deep Submicron Technology - October, 2015.
2. Mr. Dathatreya - 0803PH0899 - Intelligent Image Compression and authentication using Artificial Neural Networks, November, 2015.
3. Ms. L. Leela Rani - 1103PH0827 - “Investigations on Optimization of Leakage Power using Efficient Leakage Power Reduction Techniques for CMOS VLSI Circuits” , 27 May, 2017.
4. Mr. Alimelu Manga - 0803PH08A32 - "Optimal Word Length Algorithm using Multiple Word Length Approach based on SNR Constraints for Low Power" , 25 May, 2017.
5. Mr. N. Udaya Kumar - 0803PH08A16- Multi Scale and Multi Directional Region of Interest Based Scheme for Image Compression, 26 May, 2017.
6. Mr. Anwar Basha Pattan- 1203PH0802 - “Optimization of Single-path Delay Feedback FFT Architecture for Low Power”, 1 September, 2017.
7. Ms. Anitha Arumalla - 10022P0480 - "Partial Dynamic Reconfigurable 2D Parallel Filter Architecture for Image Processing Applications"- JNTUK, 5-10-2018.

##### **Patents Filed / Published:**

1. Dr. MMLet al,Ref No. 201841002292, Application No. TEMP/E1/1408/2018-CHE, CBR No. 1734 - "Physiological Data Monitoring and Notification System and Method Employed thereof"- Dr. K. Hari Kishore, Dr. Habibulla Khan,KLU and Dr. M. Madhavi Latha, JNTUH*,*Controller General of Patents, Designs & Trade Marks, India, 2018.
2. *Dr.* MML et al,Ref No. 201841002291, Application No. TEMP/E1/1412/2018-CHE, CBR No. 1733 - "Implantable Medical Device Actuated by Piezoelectric effect"- Dr. K. Hari Kishore, KLU and Dr. M. Madhavi Latha, JNTUH*,* Controller General of Patents, Designs & Trade Marks, India, 2018.

**Ph. D Thesis Submitted: 01**

1. Ms. Jayasree -

**No. of Ph.Ds Guiding: 01**

1. Mr. G. Kumaraswamy Rao, Retd. Sci. 'G', DLRL/DRDO

**Administrative Experience: 24**

1. **Officer In-charge Examinations** from October, 2003 to March 2007 for 3.5years**–** **First Woman** Officer in Examinations
2. Coordinator, **Center for VLSI and Embedded Systems Design (CVED)**, JNTUH CEH from 2010 to till date
3. **Professor I/c Library** for two years during 2010 to 2012
4. **Head of the Department of Electronics & Communication Engineering** from13 September 2010 to 26 September 2012 - **First Woman ECE Head** **in** JNTUH.
5. **University Coordinator** between JNTUH & Blekinge Institute of Technology,Sweden for MOU course.
6. **Chief Superintendent for conducting EAMCET-2010 in JNTUH CEH**
7. Conducted **EAMCET, ECET, PGECET and many competitive Examinations** as Officer In-Charge Examinations
8. **Convener, Forest Department Recruitment Test (FDRT) -2014, JNTUH,** which is very complex test as 4 times EAMCET Examination, for the posts of FSO, FBO, ABO, TH, BW & TA**- First Woman Convener** in the state.
9. **Co-Convener, EAMCET-2014- First Woman Co-Convener** in the state.
10. **Convener for Regular Faculty Recruitment Test (FRT)-2014 in JNTUH, 2014 - First Woman Convener** in the state.
11. **Convener for e-LSDM Project for implementing e-Learning Solutions & 2-way HD delivery Mechanism for Faculty and Students, at JNTUH - First Woman Convener** in the state.
12. **Chairperson, Board of Studies for ECE & ETM board, JNTUH**
13. **Standing Council Member for JNTUH for grant of JNTUH affiliation.**
14. **Expert member for many of Competitive Examinations like Orissa PGCET, AP PGECET, APPSC and other CETs.**
15. Established **Centre of Excellence in Automation Technologies (CEAT)** in collaboration with Bosch Rexroth, Germany, first time in the state.
16. Established **Innovative Computational Centre** at D-IT, JNTUH.
17. Established **Centre of Excellence in VLSI Design & Embedded Systems** **Design (CVED)** in collaboration with Cadence Design Systems, Bangalore,Synopsys, USA, Mentor Graphics, Bangalore at JNTUH CEH.
18. **In-Charge** for infrastructure facilities in Class Room Complex, JNTUH
19. **Established e-LSDM studio for on-line interactive video lectures** to thestudents of JNTUH affiliated Colleges.
20. **Chairperson, Board of Studies for BME/EIE/ICE/ECM board, JNTUH-Present.**
21. **Chairperson, Board of Studies for ECE & ETM board, JNTUH- 2012-2014.**
22. Design Contest Chair in an Silver Jubilee International Conference on VLSI Design conducted during 7-11 January, 2012.
23. Co-Chairman of Tutorials in PrimeAsia 2015-An International conference on Post Graduation Research in Microelectronics and Electronics, a joint conference of CAS & EDS and IEEE Hyderabad Section organized at Vasavi College of Engineering, Hyderabad during 27-29 November, 2015.
24. **Director, Innovative Technologies,** JNTUH from 2013-2016**.**

**Conferences Conducted: 07**

1. Organized SPOORTHI‟05, a National Level Technical Student Paper Contest on 2-03-2005
2. **Design Contest Chair** in an Silver Jubilee International Conference on VLSI Design conducted during 7-11 January 2012
3. Organized SPOORTHI‟13, a National Level Technical Student Paper Contest on

14-03-2013 & 15-03-2013.

1. **Convener** for a 3-day 2ndInternational Conference on Recent Advances inDesign, Development and Operation of Micro Air Vehicles (**ICRAMAV-2013**) during 21-23 November 2013 (Chief guest: **Dr. Avinash Chander, SA to Raksha Mantri, Govt. of India**).
2. **Convener** for a 2-day First National Conference on Robotic, Automation andMechatronics (**NCRAM-2014**) during 12-13 March 2014.
3. **Convener** for a 3-day 3ndInternational Conference on Recent Advances inDesign, Development and Operation of Micro Air Vehicles (**ICRAMAV-2014**) during 5-7 November 2014 2013 (Chief guest: **Dr. G. Sateesh Reddy, Director, RCI, Hyd**.).
4. **Convener** for a One day National Seminar on Innovative Technologies (**NSIT**)-2014 on 7th October, 2014 (**Chief Guest: Bharat Rant Padmasri Dr. A.P.J. Abdul Kalam, Former President**).

**Academic Council Member/ Board of Studies Member**

1. BOS Chairperson- ECE/ETM, JNTUH, 2012-2014
2. BOS Chairperson- BME/EIE/ICE/ECM, JNTUH, 2014-2016
3. BOS member for ECE & ETM, BME,during 2007-2012, JNTUH
4. BOS member for ECE , JNTUH CEH, 2008-2010
5. JNTUH CEH BOS Chairperson for ECE during 2010-2012
6. Academic Council member for KL University, Guntur
7. Academic Council Member of SNIST, Ghatkesar
8. BOS Member for ECE , KL University & E.Comp.E, KL University
9. BOS Member for E.Comp.E, KL University
10. BOS Member for Satya Bhama Deemed University, Chennai during 2014
11. BOS Member for GRITE, SR Engg. College, JBIT.
12. Governing Body Member of JBIET, Chilukuru, Hyd.
13. **/Subject Expert Member:**
14. Judge for Research Category in NI's Educators Day conducted during 16-17 October 2012 at Chennai
15. Subject Expert for DRDO interviews
16. Subject Expert for RCI interviews
17. Subject Expert for NRSC interviews
18. Subject Expert for APPSC interviews
19. Subject Expert for UPSC interviews
20. External Member in the Screening Committee for JRF Recruitment at DLRL, Hyderabad, Feb 2018.

**Advisory Member:**

1. Two day National Conference on Emerging Trends in Signal Processing Embedded Systems, 9-10 February, 2012

**International Exposure & Activities:**

1. University Level Coordinator between JNTUH and Blekinge Institute of Technology, Sweden since 2007.
2. Nominated by the U. S Consulate general Hyderabad for the proposed exchange program to promote better cooperation between educational institutions in the U.S. and India on the Institute on '**Industry-Private Sector** **Linkages & Innovation ’**.
3. Visited Foreign Universities/countries for academic and R&D interaction:
   * Blekinge Institute of Technology, Sweden
   * University of California, Berkeley
   * San Jose University, USA
   * Stanford University, USA
   * Linköping University, Sweden
   * University of Rome, Rome
   * Innsbruck, Austria for paper presentation
   * Bosch Rexroth, Germany
   * Denmark, Venice, Finland, Singapore, China, Hongkong, Bangkok as visitor
4. MOU with Bosch Rexroth, Germany for establishing Centre of Excellence in Automation Technologies (CEAT) at JNTUH worth **INR 4.00 Crores** on 50:50 sharing base.
5. MOU with Synopsys Inc, USA, for Software donation worth **$150 million**.
6. Appointed as External Examiner to The Harare Institute of Technology, Zimbabwe by its Executive Board.

**National MOUs Established:**

1. Cadence Design Systems, Bangalore –Rs. 20-00Lakhs worth EDA software as free to CVED
2. Mentor Graphics, Bangalore - Rs. 20-00Lakhs worth EDA software as free to

CVED

**International MOUs Established with:**

1. Bosch Rexroth, Germany for establishing Centre of Excellence in Automation Technologies (CEAT) at JNTUH
2. Synopsys, USA – USD 150 Million worth EDA software as free to CVED.
3. Texas Instruments, USA – Established First Digital Signal Processing Laboratory for IV ECE – Received 5 DSKs as donation
4. Analog Devices, USA - Received 5 DSKs as donation

**Ph. D. Adjudicator/Evaluator/Reviewer:**

1. Reviewer of IC on Signal Processing, Pattern Recognition and Applications (SPPRA 2012) June 18-20, 2012, Crete, Greece.
2. Ph. D adjudicator for:
3. Anna University
4. Punjab University
5. Andhra University (AU)
6. Hyderabad Central University (HCU)
7. Osmania University
8. Sri Krishnadevaraya University (SKU)
9. Karunya University.
10. Gitam University, Vizag
11. Sri Venkateswara University, Tirupathi Satya Bhama Deemed University
12. Sri Satyasai Deemed University
13. JNTUK, Kakinada

**Book Chapter: 01**

1. K. Padma Vasavi, Dr M. Madhavi Latha, Dr E.V.Krishna Rao, N. Udaya Kumar

“Combining Multi Scale and Multi Direction Analysis in Edge Detection Using Statistical Thresholding”, book chapter in the research book titled “Intelligent Automation and Systems Engineering”, **Springer Veralag, 2011.**

2. G. Kumara Swamy Rao and M. Madhavi Latha - " Protection Against IED (An

Improvised Explosive Device) a Dreaded and Fearful Weapon of Terrorist - Problems, Solutions and Challenges - Springer-2019, in Advances in Decision Sciences, Image Processing, Security and Computer Vision, P. No. 218-225.

**Books Authored: 01**

1. Signals, Systems and Communications – B. P. Lathi & M. M. Latha, BSP Publications, 2012.

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| --- | --- | --- | --- |
| **Total No. of Papers (Journals & Conferences): 179** | | |  |
| **National Journals:** | **07** | **International Journals:** | **81** |
| **National Conferences:** | **23** | **International Conferences: 68** | |

**Refresher Courses / Workshops / Short Term Programs Conducted: 32**

1. Coordinator for a 3-Week UGC Sponsored Refresher Course on „VLSI Design‟ during 13-11-02 to 2-12-02
2. Coordinator for a one-Week UGC ASC self-supported Course on „VLSI Design
   * Embedded Systems‟ during 26-05-03 to 31-05-03
3. Coordinator for a 3-Week UGC Sponsored Refresher Course on „VLSI Design
   * Embedded Systems‟ during October 29th – 18thNovember „03
4. Coordinator for a 3-day workshop on Digital Signal Processing during 13th – 15th December 2004
5. Coordinator for a 3-week refresher course on Digital Signal Processing during 17th November – 7th December 2004
6. Coordinator for a One-day workshop on “ EDA Tools for VLSI”, 27th Sep, 2006
   * 1. Coordinator for a 5-day workshop on “ MATLAB Programming and its Applications”, Jan-Feb, 2007 2006
     2. Coordinator for a One-day workshop on “ CMOS VLSI and ASIC Design”,10th -11th August, 2007 in collaboration with Micro wind & Ni2 designs
     3. Coordinated a 3-day workshop on “Holistic systems Management”- September, 2007
     4. Coordinator for Women Student Congress – 08 during 11th-12th, July 2008 under IEEE – Hyderabad Section
     5. Dr. M. Madhavi Latha and Dr. D. Srinivasa Rao Coordinated for Three – day workshop on “Cellular and Wireless Technologies”during 29th- 31st July 2008 in collaboration with Motorola (Inc)International
     6. Dr. M. Madhavi Latha and Dr. T. Satya Savitri Coordinated for one-day work shop on “Tanner Tools” on 10-02-09
     7. Dr. M. Madhavi Latha and Mrs. V. Vijaya Laxmi organized “Mega Bloodonation Camp” at JNTUH in association with Lions Club, Banjara Hills
     8. Image Processing and its Applications – 3 day workshop, March 2009
     9. Short Term Course on “XILATHON” FOR b. Tech 2nd and 3rd Year Students (20th May to 30th June, 2009)
     10. A Three-day workshop on “Analog Mixed Signal Design” during 19th-21stAugust 2009 (CVED)
     11. A Two-day workshop on Low Power VLSI Design Methodologies-2009 during 11th-12thDecember 2009 (CVED)
     12. One-day Advanced VLSI Program on 12th March 2010 (CVED)
     13. A Three-day workshop on “Signals & Signal Processing” during 28th-30th

July, 2010

* + 1. A Five-day workshop on “VLSI Design Methodology using Mentor Graphics

Tools” during 9th-13th August, 2010

* 1. A one-day work shop on RF System Design & Testing on 21December 2011 at

JNTUH CEH

* 1. A Three –Day work shop on Digital Signal Processing &Programming during 27-29 January 2012 in collaboration with Physitech Electronics, Hyderabad

1. Coordinator for a 6days workshop on “VLSI Design Using CADENCE Tools” during 26-31 march 2012.
2. A One-day workshop on Electronic Hardware Design and Implementation during May 2012 in collaboration with Physitech Electronics Pvt. Ltd.
3. A Three-Day finishing school program on VLSI Design using Cadence Tools from 9-11 August 2012.
4. A Two-day Workshop on “Antenna Simulation using ANSYS HFSS Tools”,

(Under TEQIP II), May 2-3, 2014

1. A 4-Day workshop on “PERL & Python Programming” under TEQIP-II during 22-25 December, 2015.
2. A One-Day Workshop on "Advanced Programming Techniques with MATLAB" on

16th September, 2016 under TEQIP-II in collaboration with Mathworks India Pvt.,

Ltd., Bangalore.

1. A Two-Day workshop on "Graphical System Design with LABVIEW", 21-22 October, 2016 under TEQIP in collaboration with NI Systems India Pvt., Ltd., Bangalore & Techlabs, Hyderabad.
2. A One-Day workshop on "Research Trends in VLSI and Embedded Systems", 5-1- 2017.
3. A Two-Day workshop on “Internet of Things (IOT) Using MSP430 F5529

ULP MCU” 29-30 July, 2017 in collaboration with Edgate Technologies, Bangalore.

1. FDP on “Analog IC Design (AICD) - Circuit and Layout Design Methodologies

using Cadence Design Flow” 23-27 June, 2017 In collaboration with M/s. Edgate

Technologies, Bangalore.

**Refresher Courses / Workshops / Short Term Programs Attended: 19**

1. One-day Workshop on “MATLAB Programming and Applications to Automation and Control Systems”during October at Hyderabad organized by Cranes Software

International

1. Co-ordinator/ Participated in a Two-day workshop on “CMOS VLSI AND ASIC

DESIGNS “by UGC at JNTUCEH, during Aug- 2007.

1. Attended an INDO-US Collaborative program on Signal Processing during 7th-12th July 2008 at Infosys, Mysore campus
2. Attended an INDO-US Collaborative program on VLSI Design during 14th- 19th July 2008 at Infosys, Mysore campus
3. Attended a one day Tutorial on Analog VLSI Filters & Mixed Signal Design on 12th September 08 at JNTU conducted by C-DAC, Hyderabad
4. Attended 18th Faraday memorial Lecture on “Enabling Rural India through innovation in ICT by Dr. Ashok Jhunjhunwala on Monday 22nd Sep 08 organized by IEEE Hyderabad section.
5. Attended Prepare Future program on “Embedded Software” conducted by C-DAC, Hyderabad, 02-11-2009 to 13-11-2009.
6. Attended a one-day tutorial on “ Video Streaming Technologies” 04th November 2009, C-DAC-Hyderabad
7. Attended Prepare Future program on “ System Design on FPGA” conducted by

C-DAC, Hyderabad, 2009

1. Dr. M. Madhavi Latha – has participated in the Faculty updation Training on

“ Hands-on with ARM: Programming Embedded Systems” organized by C-DAC Hyderabad with JNTUH as a part of Prepare Future project, HRD Division, Department of Information Technology, GOI for the period of Two- weeks from 02-11-2009 to 13-11-2009.

1. Acted as Judge for Research Category in NI‟s Educators Day conducted during 16-17 October 2012 at Chennai.
2. Participated in MATLAB Academic Summit held on 3-11-2015 at Bangalore organized by Matworks India Ltd.
3. Participated in NIDays held on 19-11-2015 at Bangalore organized by National Instruments, Bangalore.
4. Participated in NIDays 2016 Conference, Bangalore, October 19, 2017.
5. Participated in MATLAB EXPO 2017, 27 April 2017, HICC, Hyderabad.
6. Attended in training program on "Analog IC Design Circuit and Layout Design Methodologies Using Cadence Analog Design Flow", 22-26 May, 2017.
7. Mathworks Training on "DSPs for FPGAs", 19-21 June, 2017 conducted by Mathworks Inc., at Hyderabad.
8. Mathworks Training on "Generating HDL Code from Simulink", 24-25 July, 2017 conducted by Mathworks Inc., at Hyderabad.
9. Mathworks Training on "Programming Xilinx Zynq SoCs with MATLAB and Simulink ", 26-27 July, 2017 conducted by Mathworks Inc., at Hyderabad.

**Guest Lectures Delivered: 36**

1. Delivered Lecture on Industry Institute Partnership Cell Workshop on VLSI Design on the topic „CPLD & FPGA Architecture‟ during March 10-12, 2004 at RVR JCOP CE, Guntur
2. Delivered Lecture on „Wavelets in Image Processing‟ on AICTE-ISTE Sponsored short term training program on „Remote Sensing and Satellite Image Processing‟ on 5th July 2004 at CBIT, Hyderabad
3. Delivered Lecture on UGC ASC Self supported course on the topic „Application Specific ICs‟ conducted during April/May, 2005
4. Delivered Lecture on „MATLAB Programming applicable to Image Processing‟ on a 3-week refresher course conducted by UGC-ASC during November 2004
5. Delivered Lecture on „Wavelet Transforms applicable to Electrical Engineering‟ on a 3-week refresher course conducted by UGC ASC during Aug/ Sep 2005
6. Delivered Lecture on „MATLAB Programming applicable to Image Processing‟ on a 3-week refresher course conducted by UGC-ASC during November 2005
7. Delivered Lecture on a 3-day workshop on Digital Image Processing” conducted by GNITS, Hyderabad during December 2005 on „ Digital Image Enhancement in frequency Domain‟
8. Acted as Expert to evaluate Projects on project exhibition conducted by DVR CE, Kandi, Hyderabad during 2005
9. Acted as Expert on Srujana – 2006 – A technical student paper presentation conducted by ABVP
10. Expert Lecture on Rectifiers and Filters at St. Peters Engg college, Hyderabad, October 2007
11. Judge for a 2-day National Level Technical Festival, CIENCIA ‟07 on 8th& 9thMarch, 2007 at CVR CE, Hyderabad
12. Keynote Speaker for a National Level Technical Festival, TECHNOSMEC ‟07 on 7th March, 2007 at St. Martins Engg. College, Hyderabad
13. Delivered Lecture on Digital Image Processing in a National Level workshop at Siddharth Institute of Engineering & Technology, Puttur in 2007
14. Expert member for the recruitment of staff at Mannan Institute of Science & Technology during 30th June – 1st July, 2007
15. Expert Lecture on Signals and systems at St. Martins Engg.College- Oct 2007
16. Chaired tutorial session on Over sampling ADCS at International Conference on VLSI Design & Embedded Systems (**VLSI 2008**)during 4th-8th 2008)
17. Expert lecture on Sigma-Delta ADCS and applications to ECG Monitoring Systems – 22nd January 2008
18. Chaired the session on TECHNOVISTA 2008 – A technical student paper contest conducted by Sri Venkateswara Engg. college, Suryapet on 31-01-08
19. Chaired the session on Signal Processing –I at an International conference on RF & Signal Processing (**RSPS** **–** **2008**) on 1-2-08
20. Co-chaired the session on Signal Processing –II at an International conference on RF & Signal Processing (**RSPS** **–** **2008**) on 2-2-08
21. Design Contest Chair in an Silver Jubilee International Conference on VLSI Design conducted during 7-11 January 2012
22. Chaired a session on 8-01-2012 for the Tutorial on Analog & Mixed Signal Design
23. Delivered expert lecture on “Fourier Transform and Sampling Techniques” in a three day workshop on DSP and applications using MATLAB at CMR College of Engg., Hyderabad
24. Delivered expert lecture on “Introduction to Wavelets and its Transforms”” in a two day workshop on “Applications of Wavelets and Multi Wavelets in Image Processing” at Lords Institute of Engg. & Technology, Hyderabad during 13th-14th August 2008
25. Chaired the session in National Level Conference on “Recent Trends in

Communication Technologies and VLSI Design (RTCTV)” – organized by Vardhaman College of Engineering, Shamshabad, Hyderabad during 2-3 June 2010.

1. Chaired the session on 11th June 2010 in 1st International Conference on

“Emerging Trends in Signal Processing & VLSI Design”– organized by

Gurunanak Engineering College, Hyderabad during 11-13 June 2010.

1. Delivered a lecture on “ Digital Signal Processors & Architectures and programming” at CMRCET on 7-6-10
2. Expert Member and delivered lecture on “ Computational Accuracies in DSPs” in a 5-day workshop conducted by RCI, Hyderabad to train the faculty of Defense (DLRL/RCL) of various centers conducted during 9th-13th August 2010
3. Expert Member and delivered lecture on “Digital Signal Processors &

Architectures” in a 5-day workshop conducted by RCI, Hyderabad to train the faculty of Defense (DLRL/RCL) of various centers conducted during 9th-13th August 2010.

1. Delivered an Invited Lecture on “Wavelet Transforms”, in 3rd IC on “Trends in Information Sciences & Computing” organized by Satyabhama University, Chennai during 8-9 December, 2011.
2. Delivered an Invited Lecture on “Wavelet Transforms and their Applications”,

2014, RCI, DRDO.

1. Delivered an Invited Lecture on “Research Methodology” at Vignan Institute of

Engg., & Technology under IEEE Students Chapter during October, 2014.

1. Co-Chairman of Tutorials in PrimeAsia 2015-An International conference on Post Graduation Research in Microelectronics and Electronics, a joint conference of CAS & EDS and IEEE Hyderabad Section organized at Vasavi College of Engineering, Hyderabad during 27-29 November, 2015.
2. Chaired the session in an IC on Micro-Electronics, Electromagnetics and Telecommunications (ICMEET) - 2017 at Hyderabad organized by BVRIT Hyderabad Engineering College for Women during 9-10 September, 2017.
3. Delivered a lecture on VLSI Design Tools on 12 June, 2017 at Tirumala Engg., College, Narasaraopet, Andhra Pradesh.
4. Chaired a session in an IC on ............... at Jagruthi Institute of Engineering and Technology, Hyderabad.

**Educational Tours Organized: 05**

* Conducted a to Visit Team Asia Greaves Semiconductors Pvt Ltd, Patancheru, Hyderabad for II B. Tech – ECE on 12-04-2000
* Organized a Visit to Satellite Earth Station, Shadnagar, on 28-04-2000for UG & PG students
* Tour to North India for IV B.Tech – ECE during 2002
* Educational Visit to Satellite Earth Station, Shadnagar, during 2013 for UG & PG students
* Organized an Educational Visit to Research Centre Imarat (RCI), DRDO during 2014 for UG students

**Extra Curricular Activities: 12**

1. Athletic champion in Intermediate for 2 Years
2. Athletic champion in B. Tech for 4 Years
3. Winner of Chess, Carroms, Tenni-coit in Intermediate And B. Tech Level
4. As Secretary of JNTU women Employees Association from 2001- 2003
5. As Vice – President of JNTU women Employees Association from 2003- 2007
6. Active Participant and Winner of games conducted for Employees of JNTU CE, Hyderabad
7. Active Participant of Summer camps conducted by LION‟S CLUB at Pedanandipadu, Guntur (D.T), AP.
8. Organized a camp to visit to Old age homes and donation in the form of clothes, Water filter & Fans
9. Organized Blood donation camp on behalf of JNTU Women Employees Association in 2006
10. President of JNTU Women Employees Association from 7-2-08
11. Dr. M. Madhavi Latha and Mrs. V. Vijaya Laxmi organized “Mega Blood Donation Camp” at JNTUH in association with Lions Club, Banjara Hills.
12. Conducted “Lead India – 2020” program for the students of JNTUH CEH in the Department of ECE, JNTUH CEH.

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**PG Projects List**

**Guided by**

**Dr. M. MADHAVI LATHA, PECE, JNTUH CEH**

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| --- | --- | --- | --- |
| **S. No** | **H. T. No** | **Name of the Student** | **Title of the Project** |
|  | 98011D0612 | M. Ramana Redy | Implementation of Sampling Rate Conversion for Multistage FIR Filters and Ploy phase Networks |
|  | 98011D0607 | D. Rama Krishna | Implementation of Codebook Search on Carmel DSP Processor |
|  | 98011D0601 | G. N. Srinivas | Voice Activity Detector |
|  | 97011D0604 | Dhiraj Sunera | Image Thinning using Artificial Neural Networks |
|  | 98011D0604 | K. Saritha | Implementation, Simulation & Verification of Position Loop Compensator using ‘C’ Language in PC using Data Acquisition Add-on Card for Tracking RS Satellite |
|  | 97011D0607 | K. Obulesh | Modeling of Stack Computer using VHDL |
|  | 99011D0605 | G. Shyam Prasad | Altitude Detection using 128-pt FFT and DSP Filter – Its ASIC Implementation |
|  | 99011D0608 | B. Subramanyeswara Rao | Simulation of Stochastic Gradient based Algorithms (ASP) |
|  | 00011D0616 | Ch. Subramanyam | Development of S/W Algorithms for Carrier Recovery & I-Q Detection of Digitally Modulated Signals |
|  | 00011D0606 | M. Ramakalavathi | Development of Direction Finding Algorithm |
|  | 00011D0619 | K. Mallikarjuna | Development of FPGA based Fast Algorithms for Velocity Estimation and Pattern Recognition |
|  | 01011D4518 | Shashi P. Deshmukh | Coded Waveforms Generator using DSP TMS320F240 |
|  | 01011D4510 | Vishnu Sankar. S | Video Segmentation Technique for Multimedia Applications |
|  | 01011D4501 | D. Narendra | Image Coding using DWT & Implementation on DSP Processors |
|  | 01011D4514 | L. Ram Mohan Rao | Implementation of JPEG2000 Standards o DSP Processor |
|  | 01011D4503 | B. Chinna Rao | Noise Cancellation using Optimum Filters |

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| **S. No** | **H. T. No** | **Name of the Student** | **Title of the Project** |
|  | 01011D4509 | B. Meenakshudu | Transform Image Coding with Adaptive Fuzzy Systems |
|  | 01011D4516 | G. Bal Kishan | Implementation of JPEG Codec using DCT Algorithm |
|  | 01011D4502  (2004) | P. Anna Purna | Speech Coding using Conjugate Structure Algebraic –nCELP |
|  | 01011D4504 | M. Indira Chakravarthi | Digital Implementation of the 4-D Wigner Distribution Function Application to Space Invariant Processing of Real Images |
|  | 01011D0616 | Ch. Srinivasa Rao | Design & Synthesis of High Speed RISC Microcontroller |
|  | 01011D0618 | S. Srinivasa Rao | Multiuser Channel Estimation and Detection in W-CDMA Receiver |
|  | 01011D4521 | T. Rama Krishna | Script Identification from Document Images using Wavelet Transform Techniques |
|  | 01011D0606 | V. Venkatesh | Motion based foreground Segmentation |
|  | 01011D4520 | B. Satish Chandra | Digital Audio compression by using Perceptual & Huffman Coding |
|  | 01011D4505 | K. Venkateswara Rao | Implementation of Max. Log-Map Algorithm in Turbo codes |
|  | 01011D4512 | Ch. Pamuleti | A Study of Wavelet Theory and its Applications to Document Image Analysis |
|  | 02011D4524 | G. Srilakshmi | Portable Control Device |
|  | 01011D0607 | A.Sunitha | Link Adaptation & Receiver Design for Enhanced General Packet Radio Wireless Communication |
|  | 02011D4510 | P. Syama Sunder | Audio Signal Processing using TMS320C6711 DSP |
|  | 02011D0603 | K. Praveen Kumar | Design of Digital Pulse Compression System for Airborne Radar |
|  | 02011D4505 | G. Amara Jyothi | Automatic Image Registration using Genetic Algorithm |
|  | 02011D4514 | V. Pulla Reddy | Wavelet based Image Compression using FPGA Realization |
|  | 01011D0604 | K. Durga Prasad | Simulation of Line Path Detection and Location using Phase Path Method for FPGA |

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| **S. No** | **H. T. No** | | **Name of the Student** | **Title of the Project** | |
|  | 01011D4523 | | Ch. Mahesh | Automatic Speech Recognition using HMM | |
|  | 02011D4525 | | S. Syamala | Bit Plane Extraction of Multi Special Images | |
|  | 01011D4513 | | S. A. Neelkanth | Design and Implementation of Image Processing Polyphase FIR Filter | |
|  | 02011D4519 | | B. Tulai Soujanya | Real Time Denoising and Shaping of Audio Signals in Wavelet Domain | |
|  | 01011D4525 | | V. Krishna Naik | Speech Encryption and Decryption using TMS320C5402 DSP | |
|  | 02014D0610 | | R. Padmaja | Content based Image Retrieval | |
|  | 02011D4508 | | N. Bhadri Prasad | Video Stabillization | |
|  | 01011D4506 | | A.Rajaiah | VHDL Realization of Fast WT for Speech Processing Analysis | |
|  | 03011D4512 | | D. Sneha Latha | Denoising of Images | |
|  | 02014D0601 | | B. Ramesh | VLSI Design and Simulation of JPEG baseline Encoder model using VHDL | |
|  | 03011D4516 | | G. Raghavaiah | Analysis and Decoding of MPEG-4 | |
|  | 03011D4504 | | M. N.G.V Kumar | Multiplicative Lateral Inhibition Models for Sharpening & Smoothing of Images | |
|  | 03011D4501 | | A.Syedu Ibhrahim | Digtal Water Marking | |
|  | 03011D45104 | | M. Veena Kumari | Characterization of MEMS Gyro sensor Noise using Wavelets | |
|  | 03011D4506 | J. Vishwanadh | | | Image Compression with Bit Map and JPEG Standards |
|  | 01011D4511 | V. Jagadeshwara Reddy | | | Implementation of 4.8 Kbps Low Bit Rate Speech Coding System |
|  | 04011D4516 | D. Saritha | | | Implementation of 1024-point Complex FFT on DSP Processor and FPGA |
|  | 01014D0619 | S. Jagadeesh | | | Image Recognition using Fourier Melon Transform |
|  | 03011D0612 | S. Praveena | | | Enhancement to Moving Image Transmission |
|  | 04011D4519 | P. Lakshmi | | | Multiple Wavelet Image Denoising using Besov Ball Projection |
|  | 04011D4517 | Sandhya Sami Reddy | | | Embedded Image Compression based on Wavelet Pixel Classification and Sorting |
|  | 03011D4523 | B. Hari Krishna | | | Implementation of Edge Detection based on Statistical Properties |
|  | 04011D4502 | U. N. Sateesh | | | Implementation of FET based Restoration with out Boundary Artifacts |
|  | 03011D0620 | B. Vishala Raja Zakaria | | | Zacharias Session Initiation Protocol (VOIP-SIP) |
|  | 03014D0614 | K. Jagadeesh Babu | | | Test Data Compression |
|  | 02011D0624 | V. Amareswar | | | Lossy Image Compression using DCT Burrows Wheeler Transform and Arithmetic Coding |
| **S. No** | **H. T. No** | **Name of the Student** | | | **Title of the Project** |
|  | 04011D4512 | N. Siva Prasad | | | Performance Analysis of Different Packet loss Concealment Algorithms for VIOP Applications and Implementing of G.711A PLC Scheme on MIPS Lexra Core |
|  | 02011D0614 | S. Shafiulla Basha | | | Implementation of Morphological Iage Processing Operations |
|  | 04011D4525 | V. Mallikarjuna Reddy | | | Implementation of FFT based Time Delay and Doppler Acquisition |
|  | 04011D4503 | Ch. Kesava Rao | | | Performance Comparison of 2 families DSPs for Image Tracking Applications |
|  | 04011D4513 | K. Ravi Kumar | | | Embedded Wavelet Video Codec using 3-D SPIHT |
|  | 02014D0604 | D. Ravi Kiran Babu | | | Design of Dual Channel Spread Spectrum Receiver for CDMA Applications using VHDL |
|  | 04011D4524 | V. Srinivas | | | Image Compression using Block Matching Algorithm |
|  | 04011D4508 | P. Anil Kumar | | | Implementation Flexible Sampling Rate Conversion on Blockfin ADSP BF533 Processor |
|  | 04011D4521 | P. Lakshmi | | | Implementation of GT11 Speech Codec on ADSP 21533 Processor |
|  | 01014D0602 | N. Srinivas Chakravarthy | | | Rotation Scale and Translation Invariant Digital Image Water Marking using Fourier Mellin Transform |
|  | 04014D0612 | K. Padma Vasavi | | | Edge Detection using Local Thresholding Statistical Approach |
|  | 04014D0607 | V. Leela Rani | | | H/W Implementation of AEL Algorithm |
|  | 05011D4507 | V. Sudheer Kumar | | | Biometric Security using Finger Print Verification |
|  | 05011D4514 | Ch. Jayakar | | | Enhancement of Fire Modules |
|  | 05011D4510 | K. Arun Kumar | | | VLSI Implementation of PC Balanced aB/10B Endec |
|  | 05011D4503 | A.Prasanth | | | Image Compression using Multi Wavelets |
|  | 04012D0608 | Syed Karim Saheb | | | Implementation of VME Bus Slave Controller |
|  | 04012D0613 | P. Sreenivasa Rao | | | Implementation of Internet Low Bit Rate CODEC Algorithm for VOIP Applications |
|  | 04012D0605 | S. Latha | | | VLSI Implementation of PI/4 QPSK |
|  | 04012D0614 | N. Alivelu Manga | | | FPGA Implementation of Direct Digital Frequency Synthesizer based on CORDIC Algorithm |

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| **S. No** | **H. T. No** | **Name of the Student** | **Title of the Project** |
|  | 05012D0613 | B. Satish | High Throughput and Low Power Implementation of AES Algorithm using Cadence Tools |
|  | 05012D0630 | R. Bramaramba | Implementation of Pipelined Aray Based FIR Filter Folding using Verilog HDL |
|  | 05012D0614 | S. Srividya | A Fast Wavelet Deconvolution and Fourier Wavelet Regularized Deconvolution for Image Deblurring |
|  | 04012D0609 | B.S.Prasada Rao | Implementation of 32-bit Floating Point RISC Processor using VHDL |
|  | 05012D0627 | P. Surya Kumari | A Low Bit Rate DSP based Modulator using High Performance 32-bit DSP |
|  | 04012D0601 | T. Santish Kumar | Hardware Implementation of FEC in Spartan-3E FPGA for Advanced Ground Radio |
|  | 04012D0604 | K. Yakaiah | Implementation of FPGA based Radar Signal Simulator |
|  | 04012D0615 | K. Panduranga Chary | Session Initiation Protocol based Soft Phone |
|  | 04012D0610 | P. Jayasimha Reddy | Real time Streaming Protocol based Mobile TV |
|  | 05012D0607 | B. Sridevi | Lossless Steganography for AMBTC Compressed Images |
|  | 05012D0629 | P. Venkatapathi | FPGA Implementation of Extended Tiny Encryption Algorithm (XTEA) using VHDL |
|  | 06012D0629 | D. Hari Babu | FPGA Implementation of Direct Digital Frequency Synthesizer |
|  | 06012D0603 | P. Haneef Saheb | ASIC Implementation of Hardware Grid Routing Accelerator |
|  | 06012D0612 | A.Anitha | A Multistage Motion Estimation Scheme for Video Compression |
|  | 06012D0614 | B. V. Rajani | Audio Denoising by Time Frequency Block hresholding |
|  | 06012D0607 | B. Niraimathi | ESM Simulator |
|  | 06012D0625 | K. Mamatha | FPGA Implementation of STBC Decoder |
|  | 06012D0610 | S. Rajani Kumari | Simulation of ireless Sensor System using HDL |

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| **S. No** | | **H. T. No** | | **Name of the Student** | **Title of the Project** | |
|  | | 05012D0603 | | P. Pragathi | Implementation of ISP with RTOS based for Industrial Automation | |
|  | | 06012D06179 | | P. Satyanarayana Goud | Neighshrink Window based Double Haar Wavelet Transform for Image Processing | |
|  | | 04012D0622 | | J. Srinivas | Reconstruction Algorithms for Remote Sensing Image Enhancement | |
|  | | 05012D0605 | | P. Nalini | Color Histogram feature based Image Classification in Content based Image Retrieval Systems | |
|  | | 07012D4530 | | G. Jyothi | Image Segmentation using Information Bottleneck Method | |
|  | | 04012D0611 | | M. Kailachandra | Target Tracking Systems using GPS Module | |
|  | | 04012D0611 | | Kailachandra Mahapatra | Target Tracking System using GPS Modula | |
|  | | 08012D04521 | | D. Subhashini | Lossless Steganography based on AMBTC Compressed Images | |
|  | | 08012D04516 | | G. Sahitya | 32-phase Code design using MSAA | |
|  | | 09012D4515 | | N. Saritha | Object based Video Retrieval using Scale Invariant Feature Transform algorithm | |
|  | | 03014D0618 | | S. Balaiah | DSCE | |
|  | | 05014D0603 | | P. Srinivasulu | Face Recognition using Canny, Sobel, Prewitt Edge Detection Algorithms and Principle components analysis | |
|  | | 05014D0618 | | K. H. Murali | Implementation of Data Encryption for Bluetooth security using VHDL | |
|  | | 06014D0614 | | M. Suman | Linear Prediction coding of speech signals using Multistage Vector Quantization | |
|  | | 05014D0609 | | R. Prasanth | Performance Evaluation & Simulation of Routing Protocols in Ad Hoc N/Ws | |
|  | | 03014D0607 | | D.Nagendra Prasanna | Data Compression using BWT & Arithmetic Coding | |
|  | | 04014D0618 | | M. Vijaya Laxmi | Morphological Text Localization using DWT | |
|  | | 06014D609 | | B. V. S. L. Bharathi | Low Power Programmable Embedded Controller (LP2EC) Design | |
|  | | 06014D0625 | | N. Vijaya Sankar | Lossless Compression of Color Map Image by Context Tree Modeling | |
|  | | 01014D0615 | | G. Mallikarjun | Integrated Approach in the Detection of Vacant Parking Space | |
|  | | 07014D4505 | | B. Swapna | Content Based Image Retrieval | |
|  | | 07014D4522 | | G. Indira Priyadarshini | Implementation of Communication Coprocessor using Wormhole Routing | |
|  | | 07014D4516 | | R. Leelavathi | Reversible Data Hiding based on Histogram Modification using Pixel Differences | |
|  | | 07014D4501 | | B. Malleswari | FPGA Implementation of RS (235, 239) Encoder and Decoder | |
|  | | 06014D0619 | | Sk. Khadar Basha | Eye Controller Computer Interaction | |
|  | | 04012D0613 | | P. Srinivasa Rao | Implementation of Internet Low Bit Rate CODEC algorithm for VOIP Applications | |
| **S. No** | **H. T. No** | | **Name of the Student** | | **Title of the Project** |
|  | 05011D4507 | | V. Sudheer Kumar | | Biometric Security using Finger Print Verification |
|  | 05011D4514 | | Ch. Jayakar | | Enhancement for the fire modules |
|  | 05011D4503 | | A.Prasanthi | | Image Compression using Multi wavelets |
|  | 03011D0606 | | Ch. Padmaja | | Image Coding Techniques – A Comparative Analysis |
|  | 02011D0622 | | K. Rama Swamy | | Image Deniosing using Spatial Filtering Techniques |
|  | 06011D4519 | | V. Hari Priya | | Reconstruction of Rx3i Ethernet module to comply with the direction of restriction on Hazardous substances |
|  | 06011D4520 | | M. Goutham Aro | | Implementation of 2x1 Space Time coding |
|  | 06011D4513 | | S. Dhana laxmi | | Low Bit Rate Satellite Demodulator for Brust mode |
|  | 06011D4507 | | B. Pradeep Naik | | Digital Design of TMS320LF2403A based board for BLDC Motor Control |
|  | 06011D4518 | | G. Appa Rao | | Programmable Digital Frequency Synthesizer |
|  | 07011D4510 | | D. Anitha Rani | | Impleentation of Industrial Communication Protocols |
|  | 07011D4511 | | A.Shanker | | Alias Free Sub-band Adaptive Filtering with Critical Sampling |
|  | 07011D4517 | | B.Pavan Kumar | | Post Processing Low Bit Rate Block DCT coded Images based on Fields of Expert Prior |
|  | 07011D4502 | | G. Janardhan Reddy | | Dual Microphone Speech Enhancement |
|  | 07011D4509 | | B. Varahala Babu | | Compression Domain Color Image Enhancement |
|  | 04011D4504 | | K. Raju | | Robust Linear Prediction Analysis for Low Bit Rate Speech Coding |
|  | 07011D4501 | | M.V.S.S. Prasad | | Estimation of Instantaneous Pitch of the Speech Signal |
|  | 07014D4505 | | B. Swapna | | Content Base Image Retrieval |
|  | 08011D0623 | | N. Kameswara Rao | | Low Power VLSI Architecture for Lifting based |
|  | 08011D4517 | | J. Amarendra | | Adaptive Noise Cancellation using modified Dynamic Fuzzy Neural N/Ws |
|  | 08011D0613 | | M. Rajesh | | High Performance Low Power and Optimum area 2-D DCT architecture |
|  | 08011D4509 | | Ch. Babji Prasad | | Fast LMS Algorithm for Stereophonic Acoustic Echo Cancellation |

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| **S. No** | **H. T. No** | **Name of the Student** | **Title of the Project** |
|  | 07011D4504 | S. Eswar Kumar | ECG Feature Extraction using Multi resolution Wavelet Transform |
|  | 08011M0609 | Paidi Ganag Mohan | Image Processing via Bessel Transformation |
|  | 09011D4521 | Mazaiyar Khosravi | Face Detection based Rejection Classification in MATLAB |
|  | 09011D0625 | Mohammad Golabi D | An Effective Approach of Clustering for abnormal MR Brain Image Segmentation |
|  | 09011D0611 | J. Neelima | A New VLSI Architecture of Parallel Multiplier Accumulator based on Modified Booth Algorithm |
|  | 09011D0601 | S. Khader Bhasha | Design and Implementation of 64-bit RISC Processor using VHDL |
|  | 09011D5502 | A.Archana | Developing Firmware for Industrial HMI Panel |
|  | 09011D0606 | P. Santhosh | FPGA based Advanced Sowing and Planting Equipment Controller Design |
|  | 09011D0625 |  |  |
|  | 10011D4518 | D. Sudheer | Moving Target Detection in Video Surveillance |
|  | 10011D0612 | S. Vijaya Kumar | Cryptography and Steganography for Audio Applications |
|  | 10011D0606 | Ramesh Dandu | Satellite Image Resolution Enhancement |
|  | 10011D4514 | Sesha Sai. M | Determining Human Entity in Video Surveillance |
|  | 05012D0613 | B. Satish | High Throughput and Low Power Implementation of AES Algorithm using Cadence Tools |
|  | 05012D0630 | R. Bramaramba | Implementation of Pipelined Aray Based FIR Filter Folding using Verilog HDL |
|  | 05012D0614 | S. Srividya | A Fast Wavelet Deconvolution and Fourier Wavelet Regularized Deconvolution for Image Deblurring |
|  | 04012D0609 | B.S.Prasada Rao | Implementation of 32-bit Floating Point RISC Processor using VHDL |
|  | 05012D0627 | P. Surya Kumari | A Low Bit Rate DSP based Modulator using High Performance 32-bit DSP |
|  | 04012D0601 | T. Santish Kumar | Hardware Implementation of FEC in Spartan-3E FPGA for Advanced Ground Radio |
|  | 04012D0604 | K. Yakaiah | Implementation of FPGA based Radar Signal Simulator |
|  | 04012D0615 | K. Panduranga Chary | Session Initiation Protocol based Soft Phone |

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| **S. No** | **H. T. No** | **Name of the Student** | **Title of the Project** |
|  | 04012D0610 | P. Jayasimha Reddy | Real time Streaming Protocol based Mobile TV |
|  | 05012D0607 | B. Sridevi | Lossless Steganography for AMBTC Compressed Images |
|  | 05012D0629 | P. Venkatapathi | FPGA Implementation of Extended Tiny Encryption Algorithm (XTEA) using VHDL |
|  | 06012D0629 | D. Hari Babu | FPGA Implementation of Direct Digital Frequency Synthesizer |
|  | 06012D0603 | P. Haneef Saheb | ASIC Implementation of Hardware Grid Routing Accelerator |
|  | 06012D0612 | A.Anitha | A Multistage Motion Estimation Scheme for Video Compression |
|  | 06012D0614 | B. V. Rajani | Audio Denoising by Time Frequency Block hresholding |
|  | 06012D0607 | B. Niraimathi | ESM Simulator |
|  | 06012D0625 | K. Mamatha | FPGA Implementation of STBC Decoder |
|  | 06012D0610 | S. Rajani Kumari | Simulation of ireless Sensor System using HDL |
|  | 05012D0603 | P. Pragathi | Implementation of ISP with RTOS based for Industrial Automation |
|  | 06012D06179 | P. Satyanarayana Goud | Neighshrink Window based Double Haar Wavelet Transform for Image Processing |
|  | 04012D0622 | J. Srinivas | Reconstruction Algorithms for Remote Sensing Image Enhancement |
|  | 05012D0605 | P. Nalini | Color Histogram feature based Image Classification in Content based Image Retrieval Systems |
|  | 07012D4530 | G. Jyothi | Image Segmentation using Information Bottleneck Method |
|  | 04012D0611 | M. Kailachandra | Target Tracking Systems using GPS Module |
|  | 04012D0611 | Kailachandra Mahapatra | Target Tracking System using GPS Modula |
|  | 08012D04521 | D. Subhashini | Lossless Steganography based on AMBTC Compressed Images |
|  | 08012D04516 | G. Sahitya | 32-phase Code design using MSAA |
|  | 09012D4515 | N. Saritha | Object based Video Retrieval using Scale Invariant Feature Transform algorithm |

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| **S. No** | **H. T. No** | **Name of the Student** | **Title of the Project** |
|  | 11011D4514 | B. Rajender Reddy | Partial Adaptive block based super resolution method. |
|  | 11011D4510 | D. Praveen Kumar | Video Analytics using background subtraction and object tracking |
|  | 11011D4503 | T. Rama Krishna | Implementation of Data embedding methods using optimal pixel adjustment process and adaptive pixel pair matching. |
|  | 11011D0613 | D. Raghavender | Design of energy efficient logic circuits using adiabatic technique |
|  | 11011D0628 | M. Sadhu Sunder Singh | Design of optimal adder for low power and high speed applications |
|  | 12011D0624 | K. Pramod Kumar Reddy | Leakage reduced low power VLSI design using Lector, Galeor and Stacked sleepy techniques |
|  | 12011D4519 | V. Bhanu sai prakash | Improved accuracy, specificity, sensitivity in segmentation of tissues in MR Images using modified spatial fuzzy C-means algorithm. |
|  | 12011D4516 | A. Prasad | Secret key based QR image video watermarking scheme for copyright protection |
|  | 12011D4512 | Sailesh Gajwel | Steganography using wavelet families and statistical methods |
|  | 11012D4507 | S. Ravi Kumar | Dualtree complex wavelet transform based image denoising through partial difference |
|  | 11012D4503 | A. M. Sai Sunetha | DCT Statistics model based Blind Image quality Assessment |
|  | 10012D4507 | B. Ravindra Naidu | Implementation of audio denoising using time frequency block threshold |
|  | 10012D4503 | G.Joy | Portal Radiation Acquisition monitoring System |
|  | 10012D425 | E. Rani Priscilla | Enhancement of Universal Demosaicing Algorithm |
|  | 09012D4528 | N. Kavitha | Nonlinear Transform for reduction in PAPR & Impact of Timing Jitter & I/Q imbalance in OFDM |
|  | 13011D4501 | G.V. Bharath | A Secure image transmission technique using reversible color transformations. |
|  | 13011D4502 | V. Ram Chandra Reddy | Robust image dehazing and matching based on transmission MAP estimation and sift descriptor. |
|  | 13011D4508 | D. Sandeep | An effective video watermarking using color histogram analysis and bit-plane image arrays. |

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| **S. No** | **H. T. No** | **Name of the Student** | **Title of the Project** |
|  | 13011D4510 | Y. Rangaswamy | Aircraft recognition in high resolution satellite images. |
|  | 10012D4513 | Babu RamYadav | Performance Evaluation of Direction of Arrival (DoA) Estimation using MATLAB |
|  | 12012D4502 | Bhavana Gowlikar | A Novel Scheme for Rejection of Narrow Band GPS Jamming |
|  | 14011D0619 | M. Santhoshi | Image Watermarking using Mojette Transform |
|  | 14011D0607 | M. Guravaiah | Design and Analysis of Bus Bridge interface between AXI & OCP protocols using Verilog HDL |
|  | 14011D0603 | G. Ram Prasad | Design of UART with BIST capability |
|  | 14011D0602 | Ch. Naresh | Design and Implementation of DSITC on FPGA |
|  | 13012D4501 | K. Chakradhar | Implementation of efficient delayed least mean square adaptive filter and its application |
|  | 12012D4523 | K. Kurma Rao | Analysis and Design of digital Servo loops for Antenna control |
|  | 12012D4507 | Vedrithi Tiwari | Binarization of degraded document using adaptive image control |
|  | 13012D4521 | Md. Raunaque Hasan | Novel based LS and MMSE Channel Estimation Techniques for OFDM Systems |
|  | 12011P0403 | H. Ayesha Anjum | Data Transmission using Software Defined Radio |