

**Dr. MADHUSUDHANA REDDY BARUSU**

**CURRICULUM VITAE**

**Residential Address**

Flat No: 304, Neha Residency-B, A-Camp, Kurnool, Andhra Pradesh

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**Email Address:**

madhu.barusu@ieee.org

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**CAREER SUMMARY:**

Seasoned assistant professor with eleven years of experience teaching undergraduate courses in Electronics and Communication Engineering. M.Tech (VLSI Design) and Ph.D (Electronics Engineering) holder with a vast experience in the educational sector and sound knowledge of VLSI design, Digital Electronics and Electronic circuits played a pivotal role in the development of the students in the electronics domain. Actively participate in continued learning through conferences and professional research. To the research credentials, have 14 research journals (5-SCI indexed), 8 conference papers. Visited the United Kingdom and Lithuania to present research papers. Believe in students’ abilities to learn and inherent thirst for knowledge with the right environment. Actively work to connect students to their material to transform lives.

**ACCOMPLISHMENTS SUMMARY:**

* ***NBA***  *- Achieved NBA accreditation for ECE of RCEW in the year 2021*
* ***National Awards*** *– Received ONE national Awards as Young Researcher Award from InSc.*
* ***Publications*** *- Having TWENTY international & national publications*
* ***Reviewer*** *for Journals-IET, IEEE, etc.*
* ***BOOK Chapters Published*** *- Published One national book chapter*
* ***Memberships*** *- SMIEEE, FIETE, LMISTE*
* ***Patent –*** *Published two patent*
* ***Conferences –*** *Co-Convener for the International Conference-ICACDS-2022*

**RESEARCH DURING Ph.D.:**

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| **Ph.D. Thesis Title** | **“A novel, non-invasive, high speed and Cost effective SPLL based condition monitoring of 3-phase Squirrel Cage Induction Motor (SCIM) with Ultra-Wide Band (UWB) radar signal analysis” under** the supervision of Dr. D. Meganathan, Associate Professor in the Department of Electronics Engineering, Madras Institute of Technology, Anna University, India.  The major objective of my Ph.D. is to investigate the vibration signal of the motor for condition monitoring. In this aspect, the key objectives of my Ph.D. work are.   * Design and implement a sensor module for vibration signal analysis with different signal processing algorithms such as FFT/STFT/Waveletes. * Analysis of various electrical and mechanical faults of induction motor * Implement a cost-effective technique to identify the faults. |

**ACADEMIC PROFILE:**

**QUALIFICATION: M.Tech (VLSI Design), Ph.D (Electronics Engineering)**

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| **Engineering (Doctorate)-Ph.D**. | Jan-2020  (Awarded) | Completed **Ph.D (Electronics Engg)** from **Anna University, Chennai**., India in **Department of Electronics.** |
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| **Engineering (PG)** | 2007-2009 | **M.Tech**., **VLSI design** from **Sathyabama University**, with First Class (Distinction) – 8.21 CGPA |
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| **Engineering (UG)** | 2003-2007 | **B.Tech**., (Electrical and Electronics Engineering), Narayana Engineering College, Nellore, **JNTU-Hyderabad** with First Class (Distinction) -74.34 % |
|  |  |  |
| **+2** | 2001-2002 | JNVK - Banavasi, **CBSE board**, New Delhi with First class (Distinction) – 79.8% |
|  |  |  |
| **10th** | 1999-2000 | JNVK - Banavasi, **CBSE board**, New Delhi with First class (Distinction) – 85.2% |

**WORK EXPERIENCE: 12 Years 11 Months Cumulative**

* **Professor and HOD,** Dept of Electronics and Communication Engg **28-Aug-2021 (AN) - till date,** Ravindra College of Engineering for Women, Kurnool, Andhra Pradesh
* **Professor,** Dept of Electronics and Communication Engg **26-Aug-2020- 28-Aug-2021(FN),** Ravindra College of Engineering for Women, Kurnool, Andhra Pradesh
* **Asst. Professor,** Dept of Electronics and Communication Engg **11-Apr-2011- 31-Jul-2020** Vel Tech High Tech Dr.Rangarajan Dr.Sakunthala Engineering College, Chennai, Tamil Nadu.
* **Asst. Professor,** Dept of Electronics and Communication Engg **01-Apr 2009 – 07-Apr 2011** Dr. K.V. Subba Reddy College of Engineering for Women, Kurnool, Andhra Pradesh.

**FUND RECEIVED:**

* Received a grant of Rupees **14000/-** from **Texas Instruments Innovation challenge India design Contest 2015** for project “MULTI PURPOSE PATIENT MONITORING SYSTEM,”
* Received a grant of Rupees **34500/-** from **Engineer infinite 2014 edition student project contest (Electrama-2014)** for project “CONSERVATION OF ENERGY FROM ELECTROMAGNETIC WAVES” conducted during 8-12, January, 2014 at Bengaluru.

**PUBLICATIONS:**

1. **Madhusudhana Reddy Barusu** , [Meganathan Deivasigamani](https://plus.google.com/u/0/107161024293219861403?prsrc=4), **IEEE Sensors Journal**, “Non-invasive Vibration Measurement for Diagnosis of Bearing Faults in 3-Phase Squirrel Cage Induction Motor Using Microwave Sensor”. vol. 21, no. 2, pp. 1026-1039, 15 Jan, 2021 **(SCI-E Indexed, IF-3.076) DOI: 10.1109/JSEN.2020.3004515.**
2. **Madhusudhana Reddy Barusu**, [Meganathan Deivasigamani](https://plus.google.com/u/0/107161024293219861403?prsrc=4), **IETE Journal of Research**, “Diagnosis of Multiple Rotor Bar Faults of Squirrel Cage Induction Motor (SCIM) Using Rational Dilation Wavelet Transforms”. **(SCI-E Indexed, IF-1.125) DOI:10.1080/03772063.2020.1816223**
3. **Madhusudhana Reddy Barusu**, Umamaheswari Sethurajan, [Meganathan Deivasigamani](https://plus.google.com/u/0/107161024293219861403?prsrc=4), **Elektronika ir Elektrotechnika**, “Diagnosis of Bearing Outer Race Faults Using a low-cost non-contact method with Advanced Wavelet Transforms”. Volume 25, Issue 1, February 2019, p.44-53 **(SCI-E Indexed, IF-1.08) DOI:** [**10.5755/j01.eie.25.1.22735**](https://doi.org/10.5755/j01.eie.25.1.22735)
4. **Madhusudhana Reddy Barusu** , Umamaheswari Sethurajan, [Meganathan Deivasigamani](https://plus.google.com/u/0/107161024293219861403?prsrc=4), **IET Power Electronics**, “Low-Cost SPLL Based Electrical Faults Identification for Three-Phase Squirrel Cage Induction Motor Using Handheld Doppler RADAR Signal Analysis**”.** Volume 11, Issue 7, June 2018, p. 1205 – 1216 **(SCI-E Indexed, IF-** **2.839) DOI:**[**10.1049/iet-pel.2017.0267**](https://doi.org/10.1049/iet-pel.2017.0267)
5. **Madhusudhana Reddy Barusu** , Umamaheswari Sethurajan, [Meganathan Deivasigamani](https://plus.google.com/u/0/107161024293219861403?prsrc=4), **IET -The Journal of Engineering**. “A non-invasive method for rotor bar fault diagnosis in three-phase squirrel cage induction motor with advanced signal processing technique”. Vol. 2019 Iss. 17, pp. 4415-4419 **–(ESCI-Indexed) DOI:**[**10.1049/joe.2018.8242**](https://doi.org/10.1049/joe.2018.8242)
6. **Madhusudhana Reddy Barusu,** Priyadharshini.K **,** Monika.R,, **International Journal of All Research Education and Scientific Methods (IJARESM),** **“**Comparative Analysis of Wallace Tree Multiplier With Fast Adders Using Xilinx ISE”. **ISSN: 2455-6211 Volume 8, Issue 11, pp: 20-27, November-2020,**  **(UGC Indexed-ISSN: 2455-6211)**
7. **Madhusudhana Reddy Barusu**, G.V.S. Sri Charan, M. Deekshith, N. Rajesh,  **International Journal of All Research Education and Scientific Methods (IJARESM),** “Realization of Different High-Speed Adders Using Quantum-Dot Cellular Automata (QCA) - A Review”. **ISSN: 2455-6211 Volume 8, Issue 11, pp: 65-72, November-2020, (UGC Indexed-ISSN: 2455-6211)**
8. N.Prabhakaran, **Madhusudhana Reddy Barusu**, S.Krishnakumari, JXAT-**“**Design of switched capacitor based ring modulator using differential voltage current conveyor and Op-Amp 180-90 nm technology” , Volume XII, Issue IV, April-2020, pp. 3051-3063. (**Scopus Indexed) DOI: 10.37896/JXAT12.04/1043**
9. **Madhusudhana Reddy Barusu,** Muni Reddy, K.Shanmuga priya & R.Srividhya **International Journal of Mechanical and Production Engineering Research and Development** (IJMPERD)– “Irrigation, fertilizing and weed cutting in the row crops with IOT controlled robot”- ISSN (P): 2249-6890; ISSN (E): 2249-8001, Vol. 8, Special Issue 3, Dec 2018, pp.512-518 (**Scopus Indexed)**
10. Sivasaravanababu.S, **Madhusudhana Reddy Barusu**, Siva Priya. G.S, Punitha.P, Shanmuga Priya.K, **International Journal of Pure and Applied Mathematics: “**Bronchogenic carcinoma identification with X-ray image using fuzzy C means” - Volume 119 No. 15, Pg.No. 727-730, ISSN: 1314-3395**,** 2018. (**Scopus Indexed)**
11. G. Vishnuvardhan Rao, **Madhusudhana Reddy Barusu**,PraveenKumar.E, Sakana.G: **International Journal of Pure and Applied Mathematics “**comparative analysis of eye detection and tracking algorithms for Surveillance" Volume 117 No. 22, Pg.No. 71-75,ISSN: 1314-3395**,**Dec’2017. (**Scopus Indexed)**
12. **Madhusudhana Reddy Barusu**, Praveen P Jose, Pasupulati Lokesh Babu, V. Logeshwaran: **International Journal of Applied Engineering Research** “CMOS Based Digital Controlled Oscillators (DCO)–A Review” ISSN 0973-4562 Vol. 10 No.20, 2015, pgno:18726-18730. (**Scopus Indexed)**
13. R. Mohamed niyas, N. Prabhakaran, N. Sathya, P. Vaishnavi, **B. Madhusudhana reddy**: **Journal of Theoretical and Applied Information Technology** “Error Compensated Fixed Width Modified Booth Multiplier for Multimedia Applications”31st December 2014. Vol.70 No.3, Pg No: 451-458. (**Scopus Indexed)**
14. **B.Madhusudhana Reddy**, R.Nisha, P.JeenathNabela, M.Sudheekshitha: **IOSR Journal of Electronics and Communication Engineering** “Restoration of Images Corrupted by High Density Salt & Pepper Noise through Adaptive Median Based Modified Mean Filter” e-ISSN: 2278-2834,p- ISSN: 2278-8735. Volume 5, Issue 5 (Mar. - Apr. 2013), PP 11-15

**MANUSCRIPTS UNDER REVIEW:**

1. **Madhusudhana Reddy Barusu**, Umamaheswari Sethurajan, [Meganathan Deivasigamani](https://plus.google.com/u/0/107161024293219861403?prsrc=4), **Electrical Engineering-Springer series:**  “Microwave Signal Analysis Using Constant-Q Wavelet Transforms for Diagnosis of Induction Motor Faults.”

**PAPERS PRESENTED IN CONFERENCE:**

### Aravind Madhav Uppara, **Madhusudhana Reddy Barusu**, **1st AICTE** – International Conference-**Advances in Mechanical Engineering** ICAME’21, Chennai, India, 27-01-2021 to 28-01-2021, “A survey on advantages and disadvantages, applications of electromagnetic damping”

1. **Madhusudhana Reddy Barusu**, [Meganathan Deivasigamani](https://plus.google.com/u/0/107161024293219861403?prsrc=4), **1st** **IETE** - International Conference-ICRTST-2020, Mysuru, India, 17-Jun-2020 to 18-Jun-2020, “Simultaneous Diagnose of Bearing and Rotor Bar Faults of Induction Motor Using Doppler UWB RADAR Signal Analysis”
2. **Madhusudhana Reddy Barusu** , Umamaheswari Sethurajan, [Meganathan Deivasigamani](https://plus.google.com/u/0/107161024293219861403?prsrc=4), **22nd****IEEE International Conference ELECTRONICS-2018, Palanga, Lithuania,**18-Jun-2018 to 20-Jun-2018, “Diagnosis of Bearing Outer Race Faults Using a low-cost non-contact method with Advanced Wavelet Transforms”.
3. **Madhusudhana Reddy Barusu** , Umamaheswari Sethurajan, [Meganathan Deivasigamani](https://plus.google.com/u/0/107161024293219861403?prsrc=4), **9th IET International Conference on Power Electronics, Machines and Drives (PEMD-2018), Liverpool, United Kingdom**, 17-Apr-2018 to 19-Apr-2018, "**A non-invasive method for rotor bar fault diagnosis in three-phase squirrel cage induction motor with advanced signal processing technique**"**.**
4. **Vishnuvardhan Rao. G, Madhusudhana Reddy Barusu** International Conference on **Intelligent Systems & Control – ISCO 2013** at Karpagam College of Engineering**, “**Clock Distribution Methods on Large Scale SOCs**”.**
5. **Madhusudhana Reddy Barusu**, Shivasubramanian. R, Vigneshwaran. V, **AICTE** - National Conference on Technology for Impactful and Sustainable Development of the Society (TISDS-2020), Kurnool, India – 15-Dec-20 &16-Dec-20 “ **Improved Wireless EEG Based Emergency Braking System”**
6. National level Technical conference CARCN-2010 at Sathyabama University, Chennai, **“Active Inductor based CMOS UWB LNA Design.”**
7. National Level Paper Presentation Contest Conducted by **NIT-CALICUT-2009, “Applications of Operational Transconductance Amplifier (OTA).”**
8. The National Level Paper Presentation Contest Conducted by **Sree Venkateshwara University, 2007, “Neural network controller for UPS inverter applications.”**

**PATENTS**

1. Dr. K E Sreenivasa Murthy, Mr. K Venkata Siva Reddy , Dr. **Madhusudhana Reddy Barusu**, Ms. M Jayalakshmi , Mr. P Kishor Kumar , Indian Patent- Application Number- 202241012281, “Autonomous medicine supply robot for hospitals based on wireless beacon network and 5g network” –applied on 07-Mar-2022 – **PUBLISHED on 25-03-2022**

**BOOKS/BOOK CHAPTERS PUBLISHED:**

1. **Madhusudhana Reddy Barusu**, “ **Green Audit for Sustainable Development of Educational Institutions in India**” Energy and Environment Management Audits, AkiNik Publications, New Delhi**, 1st Edition, ISBN:** 978-93-91538-26-2*,*  pg.no. 269-279, [**https://doi.org/10.22271/ed.book.1370**](https://doi.org/10.22271/ed.book.1370)**, Nov-2021.**

**Conferences/Workshop/FDP/STTP/Webinars/Online Quiz Organized**

1. Successfully organized 6th International Conference on Advances in Computing and Data Sciences (ICACDS – 2022) April 22-23, 2022 – **as a Co-Conveners**

**WORKSHOP/FDP/STTP/Webinars/Online Quiz ATTENDED:**

1. Completed One-week **Online Elementary** FDP on "Data Science" from 21-02-2022to 25-02-2022at **J C Bose University of Science & Technology, YMCA, Faridabad**. and **AICTE Training and Learning (ATAL) Academy**
2. **One-week** Online Training Programme on **"Circuit Simulation and PCB Design using Multisim"** from 26.07.2021 to 30.07.2021 by NITTTR, Chennai.
3. Completed One-week **Online Elementary** FDP on "**THE INTERNET OF THINGS & EVERYTHING – IOT/IOE**" from **2021-07-26** to **2021-07-30** at **University Institute of Engineering, Chandigarh University, Mohali** and **AICTE Training and Learning (ATAL) Academy**
4. **Two-weeks** online faculty development programme on “**Machine Learning Tools for IOT applications”** held on **12-Jul-2021 to 22-Jul-2021 by NIT Warangal and Institute of Aeronautical Engineering**
5. Completed “**Journal Citation Reports (JCR) certification series-2021**” conducted by Clarivate
6. **One week workshop on “R”** held on 21-Jun-2021 to 25-Jun-2021 conducted by **Vellore Institute of Technology, Chennai, India**
7. **Two days workshop on** “**Transformation Through NAAC Accreditation Process, A National Level Workshop for Higher Educational Institutions**” held on 21st & 22nd June 2021 conducted by "Institute for Academic Excellence, Hyderabad" in collaboration with "**Collegiate Education & Technical Education Department, Telangana State, India.**
8. **One week FDP on “Outcome Based Education”** conducted during21-Jun-2021 to 25-Jun-2021 by **Kallam Haranadhareddy Institute of Technology (KHIT), Guntur, Andhra Pradesh, India.**
9. **One week FDP on “Research and Application Perspectives in Artificial Intelligence and Machine Learning”** conducted during 21-Jun-2021 to 25-Jun-2021 by **Sridevi Women’s Engineering College (SWEC), Hyderabad, India**
10. **One week workshop on “Digital Design ff FPGA Through Verilog” conducted during 19th and 26th JUNE 2021 by Siddhartha Institute Of Engineering and Technology**, Ibrahimpatnam.
11. Received an appreciation certificate for the National Level Online Quiz on **‘PYTHON PROGRAMMING’** organized by Department of Computer Science and Engineering, **Annamacharya Institute of Technology & Sciences (Autonomous), Rajampet, India**
12. **One week FDP on “Intellectual Property Rights”** conducted during 08-Jun-2021 to 12-Jun-2021 by **Gate Institute of Technology, Gooty, India**
13. **Three days FDP on “IPR & fundamentals of patent filling and prosecution”** conducted during 08-Jun-2021 to 10-Jun-2021 by **B.V.Raju Institute of Technology, Narsapur, India Intellectual Property Rights**
14. **Workshop on “Outcome Based Education”** conducted on 28th May 2021 by **Siddhartha Institute of Engineering & Technology, Ibrahimpatnam, India**
15. **Five days FDP on “Latest Trends in VLSI Design and Implementation using EDA tools”** conducted during 06-Apr-2021 to 10-Apr-2021 by **Narayana Engineering College, Nellore, India**
16. **One week STTP on “ FPGA based Digital System Design with HDL (Phase-I) ”** conducted during 25-Jan-2021 to 30-Jan-2021 **by Vel Tech Multi Tech Dr. Rangarajan Dr. Sakunthala Engineering college, Chennai**
17. **Completed 30-days Webinar** on **“AI Master Class”** conducted during 05-Oct-2020 to 03-Nov-2020 **by Andhra Pradesh State Skill Development Corporation (APSSDC) and Pantech Prolabs India Pvt, Lab**
18. **Four-Weeks FDP** on **“Practical Quantum Computing using Qiskit and IBMQ**” conducted during 12-Sep-2020 to 04-Oct-2020 by **E&ICT Academy IIT Roorkee**
19. **Completed 30-days Webinar** on **“Matlab Master class series”** conducted during 01-Sep-2020 to 30-Sep-2020 **by IETE Mumbai and Pantech Prolabs India Pvt Lab**
20. **Webinar** on "**Organic Electronics”** conducted on 30-Sep-2020 by **The National Academy of Sciences, India (NASI) – Delhi.**
21. **Webinar** on "**Wireless AI: A New Sixth Sense to Deciphering our World”** conducted on 30-Aug-2020 by **The National Academy of Sciences, India (NASI) – Delhi.**
22. **One-week STTP** on “**Optimization techniques in machine learning for wireless & IOT applications**” from 24-Aug-2020 to 29-Aug-2020 by **Malla Reddy Engineering College for Women, Hyderabad**

# Online **short-term FDP** Course on “**ICT tools for teaching learning process - post pandemic educational strategies”** from 17 August to 23 August 2020, **by Sree Narayana College Kollam in association with Kerala State Higher Education Council.**

1. Completed **Online Summer School-cum-Faculty Development Program on “Advances in Signal Processing and Machine Learning”** from 20-Jul-2020 to 26-Jul-2020 **by MHRD-Institution Innovation Council, DDUC Chapter, Deen Dayal Upadhyaya College, University of Delhi**
2. **Webinar** on " **Physics Does Digital Optimization- for Machine Learning, Control Theory, Back Propagation”** conducted on 28-Jul-2020 by **The National Academy of Sciences, India (NASI) – Delhi.**
3. **Webinar** on " **BLDC Motor and Its Industrial Applications”** conducted on 26-Jul-2020 by **Vellore Institute of Technology, Chennai**
4. **Webinar** on " **Innovation: What, Why and How?**” conducted on 19-Jul-2020 by **IEEE Bangalore Section, Bangalore.**
5. **Two Weeks Online FDP** on **"Machine Learning for Computer Vision"** from 29-Jun-20 to 08-Jul-2020 by **EICT Academy, MNIT Jaipur.**
6. **Online FDP** on **" Deep Learning and its Applications"** from 22-Jun-20 to 30-Jun-20 by **EICT, IIT Roorkee.**
7. **Webinar** on **"Indo-German Bilateral Funding Programmes for Advanced Industrial Research"**conductedon 26-June-2020by **Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab.**
8. **Webinar** on " **AI Applications in Electrical Power Industry**” conducted on 23-Jun-2020 by **RMD Engineering College, Chennai.**
9. **Webinar** on “**The step-by-step guide how to write a journal article within 3 months**” conducted from 18-Jun-2020 to 23-Jun-2020 at **Chase technologies**.
10. **Online FDP** on **" Deep Learning and its Applications"** from 17-Jun-20 to 22-Jun-20 by **EICT, NIT Patna.**
11. **Webinar** on **“How to Write Effective and Successful Research Funded Projects”** conducted on 22-Jun-2020 by **Power Innovative Research Consultancy, Chennai**.
12. **Webinar** on **“Art and Challenges of Writing Papers for IEEE Transactions”** conducted on 08-Jun-2020 by **IEEE Bangalore Section, Bangalore.**
13. **Webinar** on **“Research Challenges & career Opportunities in VLSI”** conducted on 06-Jun-2020 at **NBKR Institute of Science & Technology, Nellore.**
14. **Online FDP** on “**AWS Cloud Computing Services**” conducted on 03-Jun-2020 at **JBREC, Hyderabad.**
15. **Online FDP** on "**Machine Learning and AI using Python**" from 27-Apr-20 to 06-May-20 by **EICT IIT Roorkee.**
16. **Online Course** on **“Programming for Deep Learning and Machine Learning Algorithms**” conducted from 02-Apr-2020 to 07-Apr-2020 at **Chase technologies**.
17. **National Seminar on “Recent Trends in Future 5G technology”** conducted from 10-Dec-2019 to 12-Dec-2019, at **Vel Tech High Tech Dr.Rangarajan Dr.Sakunthala Engg College.**
18. **Workshop on Intellectual Property Rights and Innovation** conducted on 08-08-2018, at **JERUSALEM College of Engineering.**
19. **FDTP on VLSI DESIGN** conducted from 06-12-2017 to13-12-2017, at Department of ECE, **Vel Tech Multi Tech Engineering College**.
20. **Workshop on “Succeeding in Research”** conducted from **09-Nov-2017 to 10-Nov-2017 in Vel Tech University**
21. **Workshop** on **Digital and Custom IC Design using CADENCE** conducted from 17-Oct-2014 to 18-Oct-2014 at **MIT Campus, Anna University,** Chennai.
22. **FDP on VLSI DESIGN** conducted from 09-12-2013 to 15-12-2013 at **MIT Campus, Anna University,** Chennai.
23. **SEMINAR** on **ANALOG IC DESIGN** from 14-09-2012 to 15-09-2012 at **MIT Campus, Anna University, Chennai.**
24. **WORKSHOP** on **Simulation of Advanced Networks using NS-2 (WSAN’11)** from 02-Dec-2011 to 03-Dec-2011 at **MIT Campus, Anna University, Chennai.**
25. **FDP** on **Advanced VLSI Design** from 17-Nov-2011 to 19-Nov-2011 at **SSN College of Engineering, Chennai**.
26. **FDP** on **Recent research areas in communication and networking** from 11-Nov-2011 to 12-Nov-2011 at **Vel Tech Multi Tech Dr.Rangarajan Dr.Sakunthala Engineering College**, Chennai.

**FIELD OF INTEREST:**

1. Digital Electronics
2. Electronic Circuits
3. Digital Signal Processing
4. VLSI Design

**AREA OF EXPERTISE:**

1. Electronic circuit simulation with SPICE software.
2. Signal Processing with MATLAB.
3. Time series analysis with Machine Learning and Deep Learning.

**CERTIFICATE COURSES:**

1. Completed **One-week** **Lead Auditor Course** on “Environment Management System, Green Campus Audit, Energy Audit and Hygiene Audit" to Educational Institutions and Industrial sectors organized by the Nature Science Foundation, Coimbatore, TamilNadu, India from 23-08-2021 to 27-08-2021.
2. Completed **one year** certificate course on **“ Introduction to Quantum Computing Course”** from IBM Quantum.
3. Completed a certificate course on **“Machine Learning with Python-From Linear Models to Deep Learning”** from **Massachusetts Institute of Technology (MIT).**
4. Completed a certificate course on “**Fundamentals of Deep Learning for Computer Vision**” from **NVIDIA Deep Learning Institute.**
5. Completed a certificate course on “**Fundamentals of Deep Learning for Multiple Data Types**” from **NVIDIA Deep Learning Institute.**
6. Completed IBM Data Science Professional Certificate Course on ***“***[**Machine Learning with Python: A Practical Introduction**](https://link.edx.org/click/5e981eb8724ca13f98cde0d1/aHR0cHM6Ly93d3cuZWR4Lm9yZy9jb3Vyc2UvbWFjaGluZS1sZWFybmluZy13aXRoLXB5dGhvbi1hLXByYWN0aWNhbC1pbnRyb2R1Y3Rpb24tMj91dG1fc291cmNlPXNhaWx0aHJ1JnV0bV9tZWRpdW09ZW1haWwmdXRtX2NhbXBhaWduPXRyaWdnZXJlZF9zaGFyZWl0/5e9739637e553f04e02340d4C4d70a6db)”.
7. Completed a certificate **Course on Python for Beginners by E&ICT Academy and IIT Roorkee.**
8. A Certificate **Course on“VLSI Design Engineering Specializing in Layout Design”** by **University of California Extension, Santa Cruz.**

**PROFESSIONAL MEMBERSHIP:**

1. IEEE Membership: Senior Member - 93949687
2. IETE Membership: Fellow - F-225108.
3. ISTE Membership: Life Member - LM 74537
4. InSc Membership: Life Member – InSc20210554
5. IAENG Membership: Life Member- 289797

**AWARDS AND RECOGNITIONS**

* **Selected as a volunteer of IEEE MOVE INDIA EDUCATION COMMITTEE - 2021**
* **Received a certificate of appreciation for guidance of student projects in “5th National Level IEEE Project Competition-2021”** Organized by IEEE Student Branch (STB17861), GSSSIETW in association with IEEE Bangalore Section and IEEE Mysore Subsection on **26th June 2021.**
* **Received “Young Researcher Award -2021” from Institute of Scholars, Bengaluru, India**
* **Recognized reviewer of following peer reviewed journals**
  + IET Electric Power Applications
  + IEEE Transactions on Instrumentation & Measurement
  + Advances in Science, Technology and Engineering Systems Journal (ASTESJ) (ISSN: 2415-6698) (Reviewer Code: RVELE0490)
  + Journal of Electrical and Electronic Engineering (JEEE); ISSN: 2329-1613 (Print); ISSN: 2329-1605 (Online); <http://www.sciencepublishinggroup.com/j/jeee>”.
  + International Journal of Electronics, Electrical and Communication Engineering-InSc
* **Acted as external reviewer for the following international conferences**
* **IEEE** International Conference on Distributed Computing and Electrical Circuits and Electronics ICDCECE- 2022 *Organized by* Ballari Institute of Technology and Management, **Ballari, Karnataka** during on 23rd-24th April, 2022.
* International Conference on Electrical, Computer and Energy Technologies (ICECET-2021) held on 9 Dec, 2021 – 10 Dec, 2021, **Cape Town, South Africa**.
* IEEE International Conference on Electrical, Computer, Communications, and  
  Mechatronics Engineering (ICECCME 2021), held on 07-08 October 2021, at **Mauritius.**
* 3rd IEEE Sponsored International Conference on Signal Processing and Communication (ICSPC 2021) held on 13, 14 May 2021 at Karunya Institute of Technology and Sciences, **Coimbatore, Tamil Nadu, India.**

**ACCOMPLISHMENTS:**

1. NPTEL Courses Completed

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S.NO** | **Name of the Course** | **Duration of Course** | **Sem/Year** | **Marks(%)** | **Certificate Received** |
| **1** | Python for Data Science | 4 Weeks | Jan-Jun/2021 | **70%** | **Elite** |
| **2** | Patent Drafting for Beginners | 4 Weeks | Jan-Jun/2021 | **56%** | **Pass** |
| **3** | Digital Electronic Circuits | 12 Weeks | Jan-Jun/2021 | **77%** | **Elite + Silver** |

1. Qualified in Faculty Eligibility Test (FET-2010) conducted by JNTU-Hyderabad.

**DECLARATION:**

I hereby declared that the above particulars about me are true to the best of my knowledge and belief.

Place: Kurnool

Date:

(**MADHUSUDHANA REDDY BARUSU)**