



Mrs.D.Monica Satyavathi

Assistant Professor

Department of Electronics & communication Engineering
Raghu Enginnering College - 531162, Visakhapatnam, INDIA

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Interests: wireless communication;IOT; Real-Time Embedded System;

Course Taught Previously

UG.

- Semiconductor diode and its Applications
- Digital Logic Design
- Electronic Devices
- Basic electrical and electronic devices
- Digital electronics
- Intellectual property rights
- Professional human values and rights

Laboratories Handled

- BEEE Lab
- Verilog HDL Lab
- Very large scale integrated lab
- Electronic Devices and circuits Lab
- PDC lab
- Digital electronics lab
- Electronic circuit analysis lab
- Semiconductor diodes and its applications lab
- Digital integrated circuits applications lab
- Digital communication lab
- Analog communication lab

Publications

International Journals

1. D.Monica Satyavathi, A.Rutwik, N.Atchut Kumar, M. Lokesh, N. Pavan Kumar,P.Karthik “**AI & IOT ENABLED SMART EXOSKELETON FOR REHABILITATION OF A FINGER FOR PARALYSED PEOPLE**”Vol. 38 April-2023
2. D. Monica Satyavathi, Sai Rohith.P.T. Sai Tarun,T. Bala Mahesh, P. Bala Vinod“**IMPLEMENTATION OF MULTIHOP PROTOCOL WITH COST FUNCTION FOR DECREASING ENERGY CONSUMPTION IN NODES**” Vol. 43, Issue-01, January-2023
3. D.Monica Satyavathi , B.Vandana Mala, Ch.Veera Vamsi, Ch.Chiranjeevi, Ch.Neeraj “**Real-Time Hidden Data Transmission Using Lora**” **EPR International Journal of Research and Development (IJRD)** Volume: 7 | Issue: 9 | September 2022
4. G.Ramesh Babu ,D.Monica Satyavathi ,M.Harish, A.Rutwik “**COUNTING CARS USING MACHINE LEARNING Mukd Shabd Journal** ,Volume XI, Issue II, FEBRUARY/2022
5. Ch.Naveen Kumar ,G.Ramesh Babu,D.Monica Satyavathi, V.Mohana Gandhi, “**SOCIAL DISTANCE**” **Mukd Shabd Journal**, Volume XI, Issue I, JANUARY/2022
6. Ch.srinivasu, D.Monica satyavathi, Markandeya Gupta “**Performance Evaluation of UWB Waveforms in High-Resolution Radar**” **Microelectronics, Electromagnetic and Telecommunications. Lecture Notes in Electrical Engineering**, volume 655. Springer, Singapore on 24th June 2020.
7. Chinthagada Naveen Kumar , D. Monica Satyavathi , Attada Rutwik, “**Design and Implementation of 4-Bit Comparator by using Win cell partition with efficient constraints in IJAEMA** in May 2020.ISSN.NO: 0886-9367
8. M.Pavan kumar, K.Chandra sekhar , D.Monica satyavathi, “ **Design And Implementation of UTMI with USB 2.0 SPECIFICATIONS in IJIRSET** in 2017.

PATENT PUBLICATION:

- Published patent on **Software Defined Networking System for the Automation of Network Security**, Application No.202041047517 A , (19) INDIA, Date of filing of Application :30/10/2020 , Publication Date : 06/11/2020

Conference Proceedings

1. Ch.srinivasu, D.Monica satyavathi, Markandeya Gupta “**Performance Evaluation of UWB Waveforms in High-Resolution Radar**” **Microelectronics, Electromagnetic and Telecommunications. Lecture Notes in Electrical Engineering**, volume 655. **Springer**, Singapore on 24th June 2020.
2. Participated in Two day international conference on **Innovative Mechanisms and Standards for Assuring Quality in HEL’s** Organized by Koneru Lakshmaiah education foundation under IAQHEI ON 11TH &12TH MARCH 2022.

PHDs Supervised

Name of Student	Area of Research	Remarks *
NILL		

Workshops/Conferences/Seminars/Symposiums organised

Conferences/Symposiums

S. No	Name of the Programme	Dates	Sponsored by	Role
NILL				

Seminars, Workshops and STTPs

S. No	Name of the Programme	Dates	Sponsored by
1	Participated in one day international workshop on Advances in Wireless Communications and Antenna Technologies for Space Vehicular and Ground Applications	12/06/2023	REC
2	Participated in one week FDP on Applications of computer vision using deep learning	20/02/2023 25/02/2023	to Seshadrirao Gudlavalluru Engineering College
3	Participated in FDP on Artificial Intelligence Machine Learning And Deep learning With Matlab And Simulink	23/11/2022 25/11/2022	to Capricot under REC
4	Participated in 5 day online FDP on Inculcating Universal Human Values in Technical Education	31/10/2022 4/11/2022	to AICTE
5	Analog And Digital IC Design Using Cadence Dsign Flow	26/10/2022 29/10/2022	to ENTUPLE Technologies
6	Big Data Emerging Technologies	25/07/2022 08/09/2022	to COURSERA
7	Accreditation and Outcome Based Education	19/07/2022 23/07/2022	to NITTR, CHENNAI
8	Wireless Communications for Everybody	04/06/2022 24/06/2022	to COURSERA
9	Machine Learning In Real Time Embedded And Iot Applicatipons	02/05/2022 12/05/2022	to Electronics & ICT Academy at Raghu Engg College
10	Peer –to –peer protocol and local area networks	22/03/2022 14/04/2022	to COURSERA
11	Innovative machanisems and standards for assuring quality in HEL's	11/03/2022 12/03/2022	to Organized by koneru lakshmaiah education foundation under IAQHEI
12	Research methodology	Feb to April 2022	Nptel Swayam
13	Communication Systems using Machine Learning Algorithms(CSMLA)	14/03/2022 19/03/2022.	to Annamacharya Institute of Technology and Sciences

14	Internet of Things	24/01/2022 30/01/2022	to	Electronics & ICT Academy at Gitam university
15	Recent advances in IoT and Machine Learning: Application and Hands-On	16/12/2021 18/12/2021	to	Raghu Engg College In Association With Robo-Coupler Pvt.Ltd
16	Opportunity, Challenges and Research Trends in WC (Wireless Communication)	23/04/2021 29/04/2021	to	AICTE-ISTE Guru Nanak Institutions Technical Campus, Hyderabad.
17	VLSI, Image Processing and Design of antennas” (COVID) Organized by UCEV	03/09/2020 04/09/2020	&	JNTUK
18	Global Navigation Satellite System	14/09/2020 25/09/2020	to	Indian Institute of Remote Sensing (IIRS),ISRO,Dehradun
19	Accelerating Research	27/08/2020 29/08/ 2020	to	Lendi institute of engineering and technology
20	High performance intelligent real time embedded systems design and IOT to accelerate Automation system into Autonomous system	03/08/2020 08/08/2020	to	R.M.K Engineering College.
21	Deep Learning for Business PN junction and Metal Semiconductor contact	22/07/2020 13/08/2020	to	COURSERA
22	TOT for TEACHER EDUCATORS	20/07/2020 24/07/2020	to	National Institute Of Technical Teachers Training And Research, Bhopal
23	Satellite Photogrammetry and its Applications	29-06-2020 03-07-2020	to	Indian Institute of Remote Sensing (IIRS),ISRO,Dehradun
24	Remote Sensing and GIS Technology and Applications for University Teachers and Government Officials	13-06-2020 01-07-2020	to	Indian Institute of Remote Sensing (IIRS),ISRO,Dehradun
25	Opportunities and challenges in next-generation semiconductor devices”.	16/06/2020 20/06/2020	to	ANITS College
26	Mobile Ad Hoc Networks - A Reliability Perspective	11/06/2020 13/06/2020	to	Bhimavaram Institute of Engineering & Technology
27	PN junction and Metal Semiconductor contact	05/06/2020 06/07/2020	to	COURSERA
28	Artificial Intelligence	25-05-2020 29-05-2020	to	AICTE
29	Micro strip antenna for advanced wireless communication.	15/05/2020 &16/05/2020		KHIT Guntur

30	Multi-carrier modulation in broad band communication and technology in 5G.	29/05/2020 30/05/2020	to	Raghu Engineering college
31	VLSI Technology in Hardware for AI & MI.	25/05/2020 27/05/2020	to	GMRIT
32	Embedded system design on 8-bit micro-controller using KEIL software	29.05.2020 & 30.05.2020		ANITS College
33	Cyber security	03/06/2020 05/06/2020	to	Anurag University
34	FPGA design for embedded systems	12/05/2020 31/05/2020	to	COURSERA
35	Completed the course in Design and Verification using Verilog	06/04/2020 11/04/2020	to	EXCEL VLSI Technologies, Bangalore.
36	IOT Wireless and Cloud Computing Emerging Technologies	18/03/2020 08/04/2020	to	COURSERA
37	Real time Embedded Systems & IoT, its applications	02/06/2018 08/06/2018	to	E&ICT academy NIT Warangal at RIT Visakhapatnam

Visit to outside institute/organization:

S. No	Instit. visited	Organization	Purpose of visit
NILL			

Continuing Education / QIP Short Term Lectures / Special Lectures given:

S. No.	Title of Lecture / Lecture Series	Place
NILL		

Details of professional training and research experience

S.No.	Title of the Course	Place	Year	Duration
NILL				

Projects

Sponsored R & D, Consultancy Projects:

S. No	Title of Project	Funding Agency	Financial Outlay	Project Period	Project Status
NILL					

Awards and Honors

NILL

Additional Responsibility

RESPONSIBILITIES WITHIN THE INSTITUTE:

1. Holding the authority as one of the faculty in charge for departmental library.
2. One of the faculty of news co-ordinator for the department.
3. Took charge as class in-charge to the 4th yr students.

POSITIONS HELD OUTSIDE THE INSTITUTE:

Nil