Faculty Profile

Name: M N Sandhya Rani

About me:

M.N. Sandhya Rani joined in this institution on 04/06/2011. She had done her B.Tech from ECET and M.Tech in Power Electronics from SSRIET affiliated to JNTUH. She had overall experience of 9 years. She is familiar with softwares like MATLAB, LabVIEW, ARDUINO and Multisim, VISIM, Eagle etc. She had done projects like Voltage and Current Sensors Card using Eagle,Control of Stepper motor using PLC,Street lighting control using PLC, Static Var Compansator, Light Intensity measurement using Arduino etc.

Contact Details: 9949327772

Courses Taught: Basic electrical engineering, Computer methods in power system . Power system operation and control , Electrical technology, Basic Electrical and Electronics Engineering.

Sponsored Projects:

Ongoing Projects:

Completed Projects:

Publications:

Journal Publications:

1.V.V.S.Madhuri, P.Mallikarjuna Sarma**, M.N.SandhyaRani**, "Automatic Street Lighting using PLC", International Journal of Latest Trends in Engineering and Technology (IJLTET), ISSN: 2278-621X, PP no.353 to 357, Vol. 2, Issue 4, July 2013**.**

2.D. Anusha, PM.Sarma, **M.N. SandhyaRani**, "Appliance Remote Control Using Arduino" International Journal of Latest Trends in Engineering and Technology (IJLTET), ISSN: 2278-621X, Page no. 35 to 41, Vol. 2 , Issue 4 , July 2013.

3.M.N.Sandhya Rani, D.Prasada Rao, A.Vinay Kumar, "A Novel Method to Improve the Dynamic Response of a Single Phase PWM Rectifier by Implementing Digital Filter", International Journal of Scientific Engineering and Technology Research(IJSETR), ISSN 2319-8885, Vol.04, Issue.33, August-2015, Pages:6626-6633.

4.Sarfaraz Nawaz Syed, S. Radhika, **M.N. Sandhya** Rani Differential Current Protection of Transformer using Arduino with Voice Alert, International Journal of Innovations in Engineering and Technology (IJIET),Volume 6 Issue 2 December 2015 ISSN: 2319 – 1058.

5. " Speed Control of Induction Motor Using Arduino", Sakina Tabassum1, Syed Sarfaraz Nawaz2 and **M.N Sandhya Rani3** Volume 2, Issue 9, September– 2017 International Journal of Innovative Science and Research Technology ISSN No: - 2456 – 2165

6. Gate Driver Circuit Design, PWM signal generation using FEZ Panda III and Arduino for Inverter *Srinivasa Rao* D1, **Sandhya Rani** MN1, *Sarfaraz Nawaz* Syed2 and *Suresh Kumar* Tummala3,* 1.Assistant Professor, EEE Department, GRIET, Hyderabad ,2.Associate Professor, EEE Department, GRIET, Hyderabad, 3.Professor, EEE Department, GRIET, Hyderabad.

7. Speed Control of DC Motor using Fuzzy Logic Controller by PCI 6221 with MATLAB , *Anil Kumar* Rajagiri1, **Sandhya Rani** MN2*, Syed Sarfaraz* Nawaz3, and *Suresh Kumar* T4

8. P Srividyadevi, Rekha M, G. Sandya Rani, **M.N. Sandya Rani**, J. Sridevi "**Intelligent Multi-verse-based Fuzzy optimization for LFC mode"** International Journal of Advanced Science and Technology, ISSN: 2005-4238 IJAST Vol. 29, No. 6, (2020), pp. 4952 – 4964.

Conference Publications:

Research Interest: Power Electronics, Electrical Machines

Seminars:

Seminars/Workshops Attended:

1. AAKASH for education.

2. Introduction to Machine learning conducted by IIT Kharagpur.

3. A Two-week FDP on Open Source Software through TEL by spoken tutorials.

4. Use of ICT in Education for Online and Blended Learning(IIT-Bombay).

5. NI LABVIEW Core1&Core2

6. .Control Systems conducted by IIT-Kharagpur

7. Two-Week ISTE Workshop on Analog Electronics conducted by IIT-Kharagpur

8. Electric Power System by IIT Kharagpur

9. IDCEME-15

10. Microcontrollers

11. Accreditation quality enhancement through OBE Education

12. FDP on Entrepreneurship (NSTE DB)

13. National Conference on echo friendly innvotations and design challanges in Electrical Engineering

14. Technical talk on "Electrical Safety Hazards and Control"

15. Outreach programme for school students

16. One Day workshop on LINUX

17. Rural development through technical education

18. Impact of Autonomy in Higher Education Institutions

19. Moodle Learning Management System

20. SeFet 2019

21. SIGNALS & SYSTEMS

22. INTRODUCTION TO RESEARCH METHODOLOGIES

23. SMART GRID

Awards:

Invited Talks: