# Faculty Profile

## Name: M. Rekha

## About me:

M.Rekha, Assistant Professor of Electrical and Electronics Engineering, pursuing her Ph.D. at KL University, Vijayawada has over eight years of academic experience in GRIET. She had earned Bachelor of Engineering in Electrical and Electronics engineering from Andhra University and Master of Technology in Power Electronics from JNTUK. She is familiar with software's like MATLAB, LabVIEW, ARDUINO and PSPICE etc. She guided several B.Tech and M.Tech projects.

## Contact Details:9032351775, rmudundi@gmail.com

**Courses Taught:** Power Electronics, Control Systems, Utilization of Electrical Energy, Switchgear and protection, Basic Electrical Engineering, Computer Organization, Power Electronics Lab, Control Systems Lab, Electrical Machines-I lab, AEC Lab, Microprocessors and Microcontrollers Lab, Constitution of India

## Sponsored Projects:

### Ongoing Projects: Nil

### Completed Projects: Nil

## Publications:

**Journal Publications:**

- **Mudundi Rekha**, Malligunta Kiran Kumar "Variable frequency drive optimization using torque ripple control and self-Tuning PI controller with PSO" International Journal of Electrical and Computer Engineering" (IJECE), Vol.9 No.2 April-2019

- **M. Rekha** and K. P. Swaroop, "An Electromagnetic Vibrational Energy Harvesting Using Boost and Buck-Boost Converter," International Journal of Engineering Research & Technology (IJERT), Vol. 1 Issue 7, September – 2012, ISSN: 2278-0181.

- **Mudundi Rekha,** Malligunta Kiran Kumar," Optimization of Single Phase fed three phase VFD using ANN", International Journal of Engineering and Advanced Technology (IJEAT),ISSN: 2249 – 8958, Volume-9, Issue-1, October 2019

- 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:

- Dr. D.V. Pushpalatha, P.SrividyaDevi , **M.Rekha**" IoT Based Security application using Raspberry Pi", International Conference on Soft Computing, Intelligent Systems and Applications, Springer Advances in Intelligent Systems and Computing Series,, April 8-9, 2016, Bangalore.

- Dr. D.V. PushpaLatha, **M. Rekha**, Dr. K.R.Sudha, "System identification of dc motor-generator set using matlab/labview", National Conference on Contemporary control and Soft computing in Electrical Engineering, Andhra University, Visakhapatnam, May, 2013.

## Research Interest: Power Electronics and Drives and Intelligence Control

## Seminars:

- AICTE Training And Learning (ATAL) Academy Online FDP on "Internet of Things (IoT)" from 21st to 25th Sep 2020 at Indian Institute of Technology (BHU).

- One week AICTE sponsored STTP on " Automative Technology for a sustainable future" organized by GRIET during 7th to 12th Sep 2020 Phase-I and 5th to 10th Oct Phase-II.

- A Two week course on "Digital Transformation in Teaching learning process" during Jan17th to Feb 7th 2020.

- One Week Online AICTE MARGDARSHAN FDP on Art of Writing Papers and Research Methodologies during 07th 13th May 2020.

- One week national level FDP on "Moodle learning management system" during 10th to 15th June 2020 organized by JNTUH college of Engineering , Sultanpur.

- NPTEL online certification for a four-week course in Electric vehicles part-1 during Feb-March 2019.

- NPTEL online certification for a twelve-week course in Control Engineering during January-April 2018.

- One day Workshop on "eSim, a First Course in the IoT Series for Teachers", organised by the Teaching Learning Centre ICT at IIT Bombay at GRIET on 21st Sep 2019.

- A Two-day workshop on "Smart and Green Technologies on Sustainable energy systems" conducted by KL University Vijayawada 19th Dec to 20th Dec 2017.
- A Two-day workshop on Introduction to Machine learning conducted by IIT Kharagpur from 16th Dec to 17th Dec 2017, attended at remote center, GRIET, Hyderabad
- A One-day Microsoft Education Workshop on Flip Your Class conducted by Microsoft on 7th December 2017 at Gachibowli, Hyderabad.
- A Three-day workshop on Smart Homes Measurements Grids using IoT conducted by GRIET from 10th to 12th October 2017.
- A Two-week ISTE STTP workshop on Electrical Power System conducted by IIT Kharagpur from 12th June to 15th July 2017, attended at remote center, GRIET, Hyderabad
- A one-week workshop on T4E Technology for Education Conducted by IIT Bombay from Nov 30th to Dec 5th, 2016
- A Two-week FDP on Open Source Software through TEL by spoken tutorials from 06th Sep to 17th Sep 2016, attended at remote center, GRIET, Hyderabad.

- A one-week workshop on NI LABVIEW Core-1 and Core 2 from 4th Jan to 8th Jan 2016
- A Four-week FDP on Use of ICT in Education for Online and Blended learning conducted by IIT Bombay from May 2nd to July 10th, 2016, attended at remote center, GRIET, Hyderabad.
- A Two-week ISTE STTP workshop on Technical Communication conducted by IIT Bombay from 8th October to 5th December 2015, attended at remote center, GRIET, Hyderabad.
- Two-day workshop on "TI C2000 MCU for Real –Time control Applications" on 11th &12th August 2015.
- Faculty Development Programme on "Guide to a Passionate Teacher" ,29th June to 4th July 2015. GRIET Hyderabad
- A Two-Week Main Workshop on Control Systems conducted by IIT Kharagpur under NMEICT, 2- 12 December 2014, GRIET, Hyderabad.
- Two-week workshop on Computer Programming, National Mission on Education through ICT (MHRD, Govt of India, $20^{th}$ May to $21^{st}$ June 2014, IIT Bombay attended at remote center, GRIET, Hyderabad.
- Two-week workshop on Signals and Systems, National Mission on Education through ICT (MHRD, Govt of India, Jan 2nd, 2014 to Jan 12th, 2014, IIT Kharagpur attended at remote center, GRIET, Hyderabad.
- National Conference on Contemporary Control, 31st May 2013, Andhra University, Visakhapatnam.
- Two-week Workshop on Analog Electronics, National Mission on Education through ICT (MHRD, Govt. of India), June 4th, 2013 to June 14th, 2013.
- One-day workshop on "SMART GRID TECHNOLOGY" on 9th Feb 2013 conducted by EEE Dept GRIET, Hyderabad.
- FDP on "Simulation of Electrical Systems" from 3rd and 4th August 2012 at SVECW, Bhimavaram. AP.
- A Two-day ISTE workshop conducted by IIT BOMBAY organized at GRIET, Hyderabad on "AAKASH for Education", 10th, 11th November 2012.
- A National level workshop conducted by IIT BOMBAY organized by GRIET Hyderabad on "Introduction to Research Methodologies" from June 25th to 4th July 2012.

## Awards:

- Received SAP award and Rs 5,000/- cash prize in Four-week AICTE approved FDP by IIT Bombay on Use of ICT in Education for Online and Blended Learning, 2nd May,2016 to 10th August 2016.
- Received Certificate of Appreciation from IIT Bombay for mentoring 39 Faculty on Use of ICT in Education for two FDP's Conducted in GRIET.