



Dr.B SWAPNA RANI

Ph.D,

Professor, ECE Department.

Areas of interest:

VLSI

#### Academic Qualification:

- Ph.D. in VLSI, SSSUTMS, Sehore, Madhya Pradesh (2019).
- M.tech in DSCE (ECE), JNTUA, Anantapur (2010).
- B.E. in EIE, GITAMS, Visakhapatnam.(2005)

#### Professional Experience:

- Professor TKR College of Engineering & Technology (2019November –till date)
- Associate Professor, TKR College of Engineering & Technology (2010-2019 October)
- Assistant Professor, TKR College of Engineering & Technology (2006-2010)
- Assistant Professor, Indur Institute of Engineering & Technology (2005-2006)

#### Paper publications:

- A Research paper entitled “*Integration of Benes switching and Cell Scheduling algorithm for Fabric using VLSI*” is selected for publishing in “**International Journal of Advanced Research Foundation (IJARF)**” Volume 3, Issue 8, August 2016 ISSN: 2394-3394.
- A Research paper entitled “*Estimation and Analysis of switching activities in VLSI circuits*” is selected for publishing in “**International Journal of Enhanced Research in Management and Computer Applications (IJERMCA)**” Volume 6, Issue 11, NOV 2017 ISSN: 2319-7471.
- A Research paper entitled “*Study on Scheduling algorithm for Fabric using VLSI*” is selected for publishing in “**Research Review on International Journal(RRIJ)**” Volume 4, Issue 5, May 2019 ISSN: 2455-3085.
- A Research paper entitled “*Design & characterization of Combination & Integration of Benes switching and Cell Scheduling algorithm for Switching Fabric using VLSI*” is selected for publishing in “**International Journal of Scientific Research and review(IJSRR)**” Volume 3, Issue 8, May 2019 ISSN: 2279-543X.
- A Research paper entitled “*An Area Delay Efficient Design Of Fam Using Modified Booth Recoder*”, IJOEET, July 2015
- A Research paper entitled “*Design and Development of AFDX Transmitter Scheduler*”, IJMETR”, June 2015.

#### Conferences:

- Presented paper entitled "*Reliability study and Analysis of Nanoscale Circuits and Systems*" in "*International Conference on Advance Studies in Engineering and Sciences*" held on Dec 2<sup>nd</sup> 2017.
- Presented paper entitled "*Combination & Integration of Benes switching and Cell Scheduling algorithm for Switching Fabric using VLSI*" in "*ICRTEPSTHM 2018*" held on 30<sup>th</sup> SEP 2018 organized by IJAMSR.
- Presented paper entitled "*Comparative study of Benes switching and Cell Scheduling algorithm for Switching Fabric using VLSI*" in "*ICRTEPSTHM 2019*" held on 27<sup>th</sup> Jan 2019 organized by IJAMSR.
- **Participated FDP:**
  - Teaching Pedagogy, programme "Education Objectives" TKRCET, 2018 December.
  - Design of Experiments using Taguchi Approach, TKRCET, 2018 December.
  - ANN for Misuse Detection, TKRCET, 2017.
  - Virtual Retinal Display, TKRCET, 2016
  - Research Awareness in Advanced VSI Design, TKRCET, 2015.
  - Modern Teaching Trends in Scientific and Technical Education, TKRCET, 2014.
  - Electro Magnetic Theory & Transmission Lines with Emphasis on MATLAB & ANSYS, Geethanjali College of Engg.& Tech. ,2014.
  - Research Methodology, Gitam , 2013.
  - ARM CortexM3 Architecture, SNIST, 2013

#### Participated workshops:

- Two day workshop on IoT based Home Automation using RASBERRY-Pi, TKRCET 2018
- Digital System Design using FPGA & Simulink, CVRCoE, 2017.
- Two day workshop on PCB Design. TKRCET 2017
- One day workshop on PYTHON,. TKRCET 2017.
- Robo Genesis, TKRCET 2016.
- Data Networking, Routing & Switching, TKRCET 2015.
- Embedded & VLSI Design, TKRCET 2014.
- Digital Image Processing using MATLAB, TKRCET 2013
- PCB Design, TKRCET 2013
- Aniamtion & Game Design, TKRCET 2013.

#### Organized:

- Organized and attended workshop on "ARM based Embedded Processing" in August, 2015.
- Organized ECTA in October, 2016 & 2017.

### Teaching:

Electronic Devices and Circuits, Analog Electronics, Microprocessors and Microcontrollers, LDIC, DICA, LICA, EMI, MPI,.

### Positions held at TKRCET:

- Annual day coordinator since 2012.
- Bathukamma coordinator since 2017.
- BoS member since 2017.
- UG Project coordinator since 2012.

### Projects guided:-

- 30+ projects were guided under UG level
- 5+ projects were guided under PG level

### Contact:

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Electronics and Communication Engineering,

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