



**DHANEKULA INSTITUTE OF ENGINEERING & TECHNOLOGY**  
(Approved by AICTE Affiliated to JNTU Kakinada)

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**FACULTY PROFILE**

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|-------------------------------|--|
| <b>Name of the Faculty</b>    | Naga Prasanthi Yerneni   |
| <b>Designation</b>            | Assistant Professor  |
| <b>Email &amp; Phone No</b>   | <a href="mailto:nagaprasanthi@diet.ac.in">nagaprasanthi@diet.ac.in</a> & 9441786778  |
| <b>Department</b>             | Electronics and communications Engineering   |
| <b>Educational Background</b> | Registered PhD Program in KL Deemed University on Jan 2021<br>M.Tech From JNTU, Kakinada affiliated college with <b>79.64%</b><br>B. Tech From JNTU, Kakinada affiliated college with <b>70.14%</b><br>Intermediate with 89%<br>SSC with 86.6% |
| <b>Specialization</b>         | Embedded Systems   |
| <b>Experience</b>             | 11 Years   |
| <b>Industrial Experience</b>  | Nil  |

| Sl. No | Institute   | Designation | Period           |
|--------|---|-------------|------------------|
| 1      | DhaneKula Institute of Engineering and Technology | Asst.Prof   | 2013 - till date |
| 2      | QIS Institute of technology, Ongole               | Asst.Prof   | 2012 - 2013      |

**Research area:**

Infrared Non-Destructive Testing, Signal Processing through Deep Learning

**Subjects Taught:**

- Switching Theory and Logic Design
- Pulse and Digital Circuits
- Linear IC Application
- Linear and Digital IC applications
- Microprocessors and Microcontrollers
- Professional Ethics and Human Recourses
- Computer Organization and Architecture
- Electronic Switching systems
- Embedded systems
- Introduction to Machine Learning

- Analog Communications

### **Laboratories Handled:**

- Linear IC Applications lab
- Pulse and digital circuits lab
- Microprocessors and Microcontroller lab
- Digital Signal Processing Lab
- Digital Communications Lab

### **List of Publications**

- **Yerneni, Naga Prasanthi**, V. S. Ghali, and G. T. Vesala. "Feature Recognition in Quadratic Frequency Modulated Thermal Wave Imaging for Subsurface Defect Detection in Fiber-Reinforced Polymers." *Russian Journal of Nondestructive Testing* 59, no. 11 (2023): 1177-1190.
- Vesala, G. T., V. S. Ghali, S. Subhani, and **Y. Naga Prasanthi**. "Material characterisation by enhanced resolution in non-stationary thermal wave imaging." *Insight-Non-Destructive Testing and Condition Monitoring* 63, no. 12 (2021): 721-726.

### **Conference Proceedings**

- **Prasanthi, Y. Naga**, V. S. Ghali, G. T. Vesala, and B. Suresh. "Convolutional neural network for automatic defect detection in composites." In *AIP Conference Proceedings*, vol. 2512, no. 1. AIP Publishing, 2024.

### **National/International Conferences**

- Participated in three-day international conference on "**Non-Destructive Evaluation**" during 24-12-2022 to 26-12-2022 organized by Indian Society for Non-Destructive Testing, Gandhinagar, Gujarat. "**Unsupervised Deep Learning in Infrared Thermography for Automatic Defect Detection**".
- International Conference on Signal Processing & Communication Engineering Systems Organized by Department of Electronics and Communication Engineering, Koneru Lakshmaiah Education Foundation (Deemed to be University) Vaddeswaram, Guntur (Dist.), A.P - India, 11<sup>th</sup> to 12<sup>th</sup> June 21 "**Convolutional Neural Network for Automatic Defect Detection in Composites.**"
- Attended INTERNATIONAL CONFERENCE on **Allied Electrical and Communication Systems** 8-10 December 2016.

### **Faculty Development Programs/Workshops/STTPs**

- Participated in the AICTE Recognized Faculty Development Programme on "**Antenna Design Techniques and Tools**" Conducted by Electronics and communications department from 11/09/2023 to 15/09/2023 (One Week) at Dhanekula institute of engineering and technology in association with NITTTR, Chandigarh.

- Attended one week National level Faculty Development Program on “ **Recent advances in Electronics and communications engineering –An approach through AI and ML**” organized by Vignan’s Nirula Institute Of Technology And Science For Women,Guntur,AP held during 21<sup>st</sup> to 26<sup>th</sup> Aug 2023.
- Participated in Five day **Faculty development program on "Foundations of Data Structures Using Java "** from 12/06/2023 to 16/06/2023 at Dhanekula Institute of Engineering and Technology, Vijayawada, Ganguru.
- Participated in **Three-day hands-on training (FDP) on "VLSI Training on Symica EDA tool”** from 17/04/2023 to 19/04/2023 at Dhanekula Institute of Engineering and Technology, Vijayawada, Ganguru.
- Participated in six-day online FDP on "**Hands-on Deep Learning Architectures for Data Classification Using Python**" during 26-09-2022 to 01-10-2022 organized by DHANEKULA INSTITUTE OF ENGINEERING & TECHNOLOGY, Ganguru, Vijayawada in association with AIQUANTUM Smart Solutions Pvt. Ltd, STEP, NITK Surathkal.
- Participated in the AICTE Recognized Faculty Development Programme on **Nano sensors & Devices** Conducted by Applied Science Department from 22/08/2022 to 26/08/2022 (One Week) at Dhanekula Institute of Engineering and Technology, Ganguru, Vijayawada, Andhra Pradesh.
- Participated in the AICTE Recognized Faculty Development Programme on **Machine Learning and Predictive Analysis using Python** Conducted by Computer Science and Engineering Department from 11/07/2022 to 15/07/2022 (One Week) at NITTTR, Chandigarh.
- Participated in the AICTE Recognized Faculty Development Programme on **Preparing Students for Job Interviews** Conducted by Education and Educational Management Department From 18/07/2022 to 22/07/2022 (One Week) at NITTTR, Chandigarh.
- Attended Five-day online Faculty Development Program on “**Advances in Signal Processing**” , organized by Department of Electronics & Communication Engineering, Lakireddy Bali Reddy College of Engineering, Mylavaram, Krishna District held during 04.04.2022 to 08.04.2022.
- Attended one-week online STTP on “**Internet of Things (IOT) Machine Learning (ML)**” Organized by Department of Electronics and communications Engineering GPREC, Kurnool during 20/09/2021 and 25/09/2021.
- Attended International Workshop on “**Signal Processing Using Machine Learning Applications & Hands-On (Online)**” Technically Sponsored by IEEE Guntur Subsection, Date: 28th August to 1st September 2021 (Saturday to Wednesday)
- Attended FDP on “**Recent Trends in Next Generation Communication Technologies**” from 16th-20th August,2021 organized by BAPATLA college of engineering
- Attended STTP on **APPLIED MACHINE LEARNING ALGORITHMS AND APPLICATIONS (PHASE-III)** from 14<sup>th</sup> to 19<sup>th</sup> December 2020 organized by Annamacharya institute of Technology and Sciences: Tirupati
- Attended FDP on **APPLIED MACHINE LEARNING AND DEEP LEARNING** from 15<sup>th</sup> June to 20<sup>th</sup> June 2020 Organized by APSSDC

- Conducted a faculty development program on ASLK kits which are sponsored by Texas Instruments in 2017 at our ECE Department, Dhanekula institute of Engineering and technology.
- Attended FDP for three days on **Custom IC design and ASIC Implementation** using cadence EDA Tools from on 3rd ,4th, and 5th August 2016.
- Attended FDP for two days on **Analog system design using ASLK Pro** from 16th and 17th Feb. 2016.
- Attended Embedded workshop conducted in Dhanekula Institute of Engineering and Technology for the academic year 2014-15
- Attended Advanced Trends in Embedded Systems, ATES – 2014 ON 28<sup>TH</sup> Feb – 1<sup>st</sup> March 2014, Conducted by PVPSIT, Kanuru, Vijayawada.

**Professional Development programs:**

- Attended Five-day online Professional Development program on **“REFLECTIVE TEACHING FOR EFFECTIVE TEACHERS** “conducted by the **National institute of technical teachers training and research (NITTR), Ministry of Education, Government of India** Chennai held during 25.04.2022 to 29.04.2022.

**Achievements / Awards:**

- Received certificate of Appreciation as **BEST MENTOR** for the academic year 2017-18 from Department of ECE.

**Certification courses:**

- Successfully completed a course “Basics of AI and ML” on Infosys springboard Platform.
- Successfully completed a course “Basics of Python “on Infosys springboard Platform.
- AI For Everyone on Coursera Platform
- Introduction to Electronics on Coursera Platform
- Introduction to the Internet of Things and Embedded Systems on Coursera Platform.

**Declaration:**

I hereby declare that the information furnished above is true to the best of my knowledge.

**Place:**

Naga Prasanthi Yerneni

**Date:**