



FACULTY PROFILE

Faculty Name: Dr. A. Swetha

Faculty Photo:



Faculty Description:

Dr. A. Swetha has received her B. Tech degree in Electronics & Communication Engineering from Dr. K. V. Subba Reddy Institute of Technology JNTUA, Anantapur, Andhra Pradesh, India, and M. Tech degree in digital electronics and communication systems from G Pullaiah College of Engineering & Technology, JNTUA, Anantapur, India. She has obtained Ph.D in the field of wireless communications, Department of ECE, JNTUA Anantapur, Ananthapuramu, Andhra Pradesh, India. She has published more than 10 International/ National journals and conferences in various SCI/ SCIE/ ESCI/ SCOPUS indexed journals and also as a reviewer for various SCI/ SCIE/ SCOPUS indexed journals like IJE, AEJ and MOTL. Her passion lies in inspiring young minds and harnessing their abilities to achieve remarkable success. An accomplished author, she has published one book and holds one patent in the field of antennas for 6G applications. Her contributions to the field significantly enhance the academic landscape. She has supervised over 10 projects at undergraduate level and also participated in many Faculty Development Programs, short term courses at IIT Kharagpur. Additionally, she has taken on the responsibility of setting question papers for several autonomous institutions. Currently she is working as Assistant Professor in the department of ECE, Dr. K. V. Subba Reddy Institute of Technology, Kurnool, Andhra Pradesh, India. Her research interests on design of microstrip patch antennas, UWB antennas, MIMO, CMA, metamaterial, frequency selective surfaces, DGS structures, DRA antennas, flexible and multi-band antennas for 5G and 6G applications.

Profile Tab:

Qualifications

Course	University/Board	College/Institution	Year of passing	Percentage
Ph.D	JNTUA	Jawaharlal Nehru Technological University Ananthapuramu	10-03-2023	--
M.TECH (DECS)	JNTUA	G.Pullaiah College of Engineering and Tech, Kurnool(Dt)	2012-14	84.50%
B.TECH (ECE)	JNTUA	DR.K.V.Subba Reddy IT of Tech, Kurnool (Dt)	2008-12	84.90%



Dr. K. V. Subba Reddy Institute of Technology

(Autonomous)

(Approved by AICTE, New Delhi & Permanently Affiliated to JNTUA, Ananthapuramu)

Accredited by NBA Recognized under Section 2 (f) and 12B of UGC Act, 1956

Website: www.drkvsrit.ac.in Email: drkvsr.principal@gmail.com

ISO 9001: 2015 & ISO 14001: 2015 Certified Institution



Intermediate	Board of Intermediate Education	Sri Krishna Jr college, Kurnool (Dt)	2004-05 2007-08	94.3%
S.S.C	Board of Secondary Education	ST Joseph's EM school, Kurnool (Dt)	2003-04	86%

Experience: Total 6 years of teaching Experience

Designation	College	From	To
Assistant Professor	Dr K. V. Subba Reddy Institute of Technology, Kurnool	01-11-2024	Till date
Assistant Professor	G Pullaiah College of Engineering & Technology, Kurnool	01-01-2015	30-09-2019
Assistant Professor	G Pullaiah College of Engineering & Technology, Kurnool	15-06-2012	30-09-2012

Awards / Achievement

- Got Ratified as an Assistant professor from JNTUA, Anantapur.
- Received Pratibha award from the state government of A. P on behalf of M.Tech degree in the year 2015.
- Qualified in UGC NET Exam as an Assistant Professor in 2016 under Electronic Science.
- Acting as Reviewer for various SCI/ SCIE/ SCOPUS indexed journals like IJE, AEJ and MOTL

Responsibilities Tab:

Responsibilities

✓ Working as a faculty

The following responsibilities are carried out as a faculty

- Teaching regular Course Work
- Mentoring the Students
- Continues research

Teaching Tab:

Expertise / List of subjects handled

- Electromagnetic Fields Waves and Transmission lines



- Switching Theory and Logic design
- Pulse and Digital Circuits
- Analog Electronic circuits
- Radar systems
- Electronic Devices and circuits
- Antennas and wave Propagation
- Microwave Engineering
- Electronic and circuit Analysis
- Linear IC circuits

Research Tab:

Research Interest

- Microwave antennas & its applications
- Electromagnetic numerical modeling Techniques of an antennas for IOT, 5G and 6G applications by using HFSS, ADS, CST tools.
- Familiar with Xilinx software, multi sim, Lab view for Digital circuits, all UG labs also.

Publications Tab:

Text Book Authored:

1.Title: Next Generation Antenna Technology for 6G

ISBN :978-81-994173-1-1

Publishers: Technical Press

Patents:

1. Design No : 202541010620 A
Invention : METAMATERIAL BASED ANTENNAS FOR ENHANCED SIGNAL PROPAGATION
Filing Date : 07-02-2025
Published Date :14-02-2025

Journal Publications:

[1] "DESIGN OF CONICAL HORN ANTENNA FOR UWB APPLICATIONS"

Published in IJRECE Vol.3 Issue 4 Oct.-Dec., 2015. It has received Impact factor from GIF, SJIF, I2OR(2.285)



- [2] "PRS Based Microstrip antenna for Beam Steering Applications" in International Journal of Emerging Technology and Advanced Engineering Volume 4 Issue 7 July 2014
- [3] "Single Feed Circular Polarized Circular Patch Antenna with C – Shaped Slots for Mobile Applications" Elixir Elec. Engg. 97 (2016) 41948-41952
- [4] Swetha A., Vanidiviyatha M. (2020) "CPW Fed Antenna Inspired by a Broad Side Coupled Hexagonal SRR for X-Band Applications". In: Satapathy S., Raju K., Shyamala K., Krishna D., Favorskaya M. (eds) Advances in Decision Sciences, Image Processing, Security and Computer Vision. Learning and Analytics in Intelligent Systems, vol 4. Springer, Cham
- [5] **A. Swetha** and K. R. Naidu, "Gain enhancement of an UWB antenna based on a FSS reflector for broadband applications," *Prog. Electromagn. Res. C*, vol. 99, pp. 193-208, 2020.: **(Scopus Indexed)**
- [6] **A. Swetha** and K. R. Naidu, "Miniaturized antenna using DGS and meander structure for dual-band application," *Microw. Opt. Technol. Lett.*, vol. 62, no. 11, pp. 3556-3563, 2020.: **(SCI Indexed)**
- [7] **A. Swetha**, and K. Rama Naidu, "Miniaturized planar antenna with enhanced gain characteristics for 5.2 GHz WLAN application," *International Journal of Electronics*, vol. 108, no. 12, pp. 1-18, 2021.: **(SCI Indexed)**
- [8] **A. Swetha** and K. R. Naidu, "Fractal Koch curve MSA array based on SRR with enhanced radiation characteristics for 5.24 GHz WLAN application," *2021 Fourth International Conference on Electrical, Computer and Communication Technologies (ICECCT)*, 2021, pp. 1-7, doi: 10.1109/ICECCT52121.2021.9616664.: **(Scopus Indexed)**
- [9] **A. Swetha**, V N Koteswara Rao Devana, B Naga Prasanna, A. Lakshmi Narayana, "Enhanced Radiation Characteristics of Plano Concave-Shaped Series-Fed Antenna based on Metamaterials for 5G Application," 2025, International Conference on Inventive Computation Technologies (ICICT) ISBN: 979-8-3315-1224-8/25 IEEE, DOI: 10.1109/ICICT64420.2025.11005258.: **(Scopus Indexed)**

Faculty Development Programs and Workshops Attended:

- 1) Attended a two-day Workshop on Design of microwave antennas using HFSS



tool at CMR Technical Campus, JNTUH, Hyderabad.

- 2) Attended a one-week Workshop on Advances in Microwave Antenna Design using HFSS & FEKO tool organized by the E & ICT Academy, National Institute of Technology, Warangal at K.L. University, Vijayawada from 8th May – 13th May 2017.
- 3) Attended a one-week short term course on „Metamaterial and Applications“ at IIT, Kharagpur from 14-12-2017 to 20-12-2017.
- 4) Attended a one-week short term course on „Design and analysis of antennas in cylindrically and spherically layered media“ at IIT, Kharagpur from 17-06-2019 to 22-06-2019.
- 5) Attended a one-week short term training on „Electromagnetics, Microwave, RF & Antenna Design using ANSYS HFSS tool flow“ at Entupule Technologies private limited, Bangalore from 25 -03-2019 to 29-03-2019.
- 6) Attended online class on “Waveguide Modes and Antennas” conducted by BENNETT UNIVERSITY by using TARANG software on 26 may 2020.
- 7) Attended a two-weeks online FDP on “IOT & Applications” organized by Meity, Govt of India, from 14-25 February, 2022.
- 8) Attended five-days online FDP on “VLSI for Beginners” organized by NIELIT, Calicut, Kerala, from 10-14 july, 2024.
- 9) Attended six-days online FDP on “Antennas & RF Circuits for Radio Frequency Energy Harvesting Applications for energizing low power devices” organized by AICTE Training and Learning (ATAL) Academy at Tripura University from 24/02/2025 to 01/03/2025.
- 10) Attended five-days online FDP on “Advanced Antenna Design for Emerging IoT Applications” organized by Bharath Institute of Higher Education and Research, Chennai, School of Electrical Engineering, held from July 14, 2025 to July 18, 2025.

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Scopus Id: 57214913879

Google Scholar Id: [1vzOSb0AAAAJ&hl](https://scholar.google.com/citations?user=1vzOSb0AAAAJ&hl)



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ISO 9001: 2015 & ISO 14001: 2015 Certified Institution



Citations (Scopus): 64

H-Index: 03

Citations (Google): 79

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i-10 index: 03

Dr A Swetha

Assistant Professor in ECE

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