



Dr. A.V.S SWATHI

Associate Professor

Department of Electronics & communication Engineering

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Interests: Antennas, Evolutionary Computing Tools, Nanotechnology, Electro magnetic, VLSI Design.

Course Taught Previously

UG

- Electromagnetic waves and Transmission lines (EMWTL)
- Antenna Wave Propagation (AWP)
- Microwave Engineering (MWE)
- Switching Theory And Logical Design (STLD)
- Analog Communication (AC)
- Digital Electronics (DE)
- Optical Fiber Communication (OFC)
- Digital Communications (DC)
- Electronic Measurement and Instrumentation (EMI)
- Digital Integrated Circuits Application (DICA)
- Bio-Medical Engineering (BMI)
- Digital Logic Design (DLD)
- Embedded Systems (ES)
- VLSI

Laboratories Handled

- Analog Communications Lab
- Microwaves & Optical communication Lab
- Digital Electronics Lab
- Microprocessor Lab
- Electronic Devices Lab
- DICA lab
- Digital Communication Lab
- VLSI Lab

Publications

- Swathi A.V.S., V.V.S.S.S Chakravarthy, M. Vamshi Krishna, “A Review on Multiobjective Optimisation of Circular Antenna Array Using Evolutionary Computing Tools.” *International Journal for Research in Engineering Application & Management* ,Vol-04, Issue-02, May 2018.
- Swathi A.V.S., V.V.S.S.S Chakravarthy, M. Vamshi Krishna “Circular Antenna Array Optimization using Modified Social Group Optimization Algorithm”, *Soft Computing*, Springer. (Accepted-In Press)
- Swathi A.V.S., V.V.S.S.S Chakravarthy, M. Vamshi Krishna “Techniques of optimizin circular array using novel evolutionary computing tools” *Test Engineering and Management (TEM-2020, Scopus)*, Volume 83 Page Number: 14188 – 14192, May - June 2020.
- Swathi, A. V. S., &Chakravarthy, V. V. S. S. S. (2020). Synthesis of constrained patterns of circular arrays using social group optimization algorithm. In *Smart Intelligent Computing and Applications* (pp. 453-459). Springer, Singapore.
- Swathi A.V.S., V.V.S.S.S Chakravarthy, M. Vamshi Krishna, “Pattern Restoration in Circular Antenna Array Using Modified Social Group Optimization Algorithm”, *International Conference on Analytical & Interdisciplinary Research – 2021, 05-06 February, 2021, SANGAM UNIVERSITY, BHILWARA (Rajasthan) INDIA.*
- Swathi A.V.S., V.V.S.S.S Chakravarthy, M. Vamshi Krishna., “Optimizing Alternate Design Parameters For Pattern Restoration In Circular Antenna Arrays Using Nature Inspired Techniques”. *Intelligent Decision Techniques*, IOS Press. (Accepted-In Press)
- Swathi A.V.S., V.V.S.S.S Chakravarthy, M. Vamshi Krishna., “Amplitude only pattern restoration using MSGOA in CAA”. *Frontiers of Intelligent*

Computing: Theory and Applications (FICTA 2021), Springer SIST series, June 25 - 26, 2021. (Accepted)

- Performance of Firefly Algorithm for Null Positioning in Linear Array
Proceedings of 2nd International Conference on Micro-Electronics,
Electromagnetics and Telecommunications (pp.383-391)
- Design Of USB Encoder and Decoder Using Vivado Software in Industrial
Engineering Journal, Volume:52, Issue 5, May:2023.
- Implementation Of OFDM in XILINX Vivado Software in Industrial
Engineering Journal, Volume:52, Issue 5, May:2023.

Workshops/Conferences/FDPS

- Participated as a delegate in one week DST funded 7 day Training program on Lab View REAL-TIME APPLICATIONS at Maharaj Vizianagaram Gajapati Raj (MVGR) College of Engineering (A) Vizianagaram in collaboration with GITAM Deemed to be University under STUTI Program 2021.
- Completed Innovation Ambassador (IA) training 'Foundation Level' conducted in online mode by MoE's Innovation Cell & AICTE during the IIC calendar year 2021-2022
- Attended a "One day workshop on Embedded Systems" in GVP Degree College on Feb.13 2010.
- Attended a "One day workshop on Embedded Systems" in GVP Degree College on Feb.13 2010.
- Attended "AICTE sponsored Two Day National Seminar on Recent Developments in Multi-Objective Optimization Techniques in the field of Engineering", conducted by Department of Mechanical Engineering, Raghu Engineering College, Visakhapatnam on 8th and 9th may 2014.
- Attended "Faculty Development Program on Lab VIEW for Teaching and Research Applications" organized by Department of Electronics and Communication Engineering, MVGR College of Engineering in collaboration with National Instruments, Bangalore during 23rd– 27th June, 2014.
- Attended a Two day Faculty Development Programme on "Advanced Digital Signal Processing applications(ADSP-A)" organized by Department of Electronics and Communication Engineering, Velagapudi Ramakrishna Siddhartha Engineering College, Vijayawada. On 12-13 Sep, 2015.
- Attended "A NATIONAL WORKSHOP ON Advanced Antenna Design(NWAAD-2K16)" under TEQIP-II, on Oct 19th -21st, 2016 organized by Department of E.C.E, Andhra University College of Engineering (A).
- Attended one week Faculty Development programme(FDP) on "Advances in practical Antenna Design" organized by E & ICT Academy, NIT Warangal at Department of ECE Raghu Engineering College, Visakhapatnam.
- Attended "NATIONAL WORK SHOP ON CST Microwave Studio Organized by Department of E.C.E, Vignan's Institute of information Technology (Autonomous), Duvvada, Visakhapatnam, on 22nd and 23rd June 2017.
- Attended the NI Engineering Education & Research Seminar at Welcome Hotel Grand Bay, Beach Road, Visakhapatnam on 11 September 2017
- Attended a one week Faculty Development Program on "Real Time Embedded Systems and IoT,Its Applications" on 2nd to 8th June,2018

organized by Department of Electronics and Communication Engineering at Raghu Institute of Technology, Visakhapatnam.

- Attended and successfully completed the C04 – IPR Professional primer course on 23rd April,2019 at Raghu Institute Of Technology
- Attended a 3days workshop on “Antenna-EMI/EMC effects on environment” at CENTURION UNIVERSITY Visakhapatnam on 28-30th May 2019
- Attended AICTE Sponsored two week FDP on “Engineering challenges for making Digital India IOT & Applications” at ANITS College on 11th to 24th June, 2019

Visit to outside institute/organization:

- Conducted many social activities as smiles coordinator in many orphanages, old age homes and many needy people in collaboration with students.
- Delivered a talk on orientation session on innovation in offline mode at Raghu Institute Of Technology on 3 Feb,2023.
- Delivered a talk on the significance of Atal schools and its association with Innovation Council at Pallavi Vidhya Mandir at Vizianagaram, on 20 Feb,2023.
- Presented a guest lecture on “INNOVATION ENTERPRENUER AWARENESS PROGRAM” at Sanketika Institute Of Technology and Management dated 03/05/2023.

Activities Involved:

- Actively involved in implementing various academic programs like seminars, group discussions and encouraging the students to participate with concentration on weaker sections.
- Encouraging and helping the students to participate in national level seminars, social activities, cultural competitions at various prestigious institutions.
- Presently serving as IQAC coordinator.
- Presently serving as Innovative Ambassador in Institute Innovation Council.
- Acting as Smiles Coordinator

Certification Courses:

- **NPTEL**
 - Completed a NPTEL course on “Antenna Design” conducted by IIT Madras.
 - Completed a NPTEL course on “Introduction to Research Methodology” with Elite certification conducted by IIT Madras.
 - Completed a NPTEL course on “Pedagogy in Teaching Methodology” conducted by IIT Roorke.
- **Coursera Campus Connect**
 - AI for Everyone by deeplearning.ai on 29th July, 2020.
 - Machine Learning for All by University of London on 9th August, 2020.

- **Udemy**

- The Teacher and Social and Emotional Learning (SEL) on April 11th, 2020.
- Fostering Grit As Teachers on April 12th, 2020.
- Innovation in School Education Through Remote Learning on April 19th, 2020.
- 100 Kaizen Practices Towards Excellence on April 20th, 2020.
- Tech Wonders For Teachers on April 27th, 2020.
- Complete Python Programming Fundamentals and Sample Projects on July 25th, 2020.

Memberships :

1. IEEE
2. IRED
3. IAENG
4. IETE
5. WAMS

Hobbies:

- Listening Music
- Reading Books
- Listening to motivational speeches

Declaration

I hereby declare that the above mentioned information is correct up to my knowledge and I bear the responsibility for the correctness of the above-mentioned particulars.

(A.V.S SWATHI)