



# ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)


**Accredited by NAAC & An ISO 9001:2008 Certified Institution**

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## FACULTY PROFILE

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<b>Name of the Faculty</b>	Mr APPALA RAJU K		
Designation	Assistant Professor		
Department	ELECTRONICS & COMMUNICATIONS ENGINEERING		
Date of Joining the Institution	14/06/2014		
Qualification with Class/Grade	PG: M.TECH (VLSI&ES) FIRST CLASS WITH DISTINCTION		
	UG: B.TECH (ECE). FIRST CLASS		
Employee ID	ALIET-14-07		
E-Mail	<a href="mailto:kanakala61@gmail.com">kanakala61@gmail.com</a> <a href="mailto:kanakala61@aliet.ac.in">kanakala61@aliet.ac.in</a>		
Blog/ website/ webpage	rajuk0461.blogspot.com		
Total Experience in Years	Teaching: 08+ years	Industry: 06 months	Research:00
Papers Published	National: ---	International: 15	
Papers presented in Conferences	National: 02	International: 02	
PhD Guide? Give field & University	Field: ---	University: ----	
PhDs / Projects Guided	PhDs: 00	Projects at Masters Level: 02	
		Projects at UG Level: 17	
Professional Memberships	Institute of Engineers		
Whether Ratified by University (Yes/No)	YES		
Other Responsibilities	Attendance In-charge for Dept. of ECE Time Table In-charge for Dept. of ECE Extension Activities Coordinator for Dept. of ECE		

## WORK EXPERIENCE

- Working as an Assistant Professor in Andhra Loyola Institute of Engineering & Technology, Vijayawada affiliated to JNTUK Kakinada, from June 2014 to till date.
- Worked as an Assistant Professor in Paladugu Parvathi Devi College of Engineering & Technology, Vijayawada affiliated to JNTUK Kakinada from June 2010 to June 2014.
- Worked as a **Telecom Engineer** in NR SWITCH N RADIO SERVICES, NCR Region, for 6 months and did
  - NOKIA BTS Installation and Commissioning.
  - Huawei BTS Installation
  - Microwave Linking And Commissioning

## SUBJECTS TAUGHT

- **Microwave Engineering**
- **Antennas and Wave Propagation**
- **Electronic Devices and Circuits**
- **Electronic Circuit Analysis**
- **Electromagnetic Waves & Transmission Lines**
- **Random Variables & Stochastic Processes**
- **Control Systems**
- **Optical Communications**
- **Radar Systems**
- **Cellular Mobile Communication**
- **Signals & Systems**
- **Electronic Measurements & Instrumentation**
- **Pulse & Digital Circuits**
- **Linear IC Applications**

## JOURNALS

- Published a journal “**A Portable and wide banded High speed ADPLL using Novel Compensation Technique** ” in **International Journal of Engineering Trends & Technology(IJETT)**.
- Published a journal “**Implementation of an Adaptive-Dynamic Arbitration Scheme for the Multilayer AHB Busmatrix**” in **International Journal of Engineering Research and Applications (IJERA)**.
- Published a journal “**A Survey on Wide Band Patch Antennas**” in **IJBCC**.

- A journal on “ Design of 8T FIN FET Based SRAM Cell Design for Nanometer Regime with Leakage Power Reduction Techniques “in International Journal Of Research In Electronics And Computer Engineering (**IJRECE**) Vol.5 Issue 4 Jul.-Aug. 2017
  - A journal on “**Design And Implementation of Multiplier Circuits using Compression Technique** “ in International Journal of Science, Engineering and Technology Research (**IJSETR**) Vol.06,Issue.26 August-2017.
  - A journal on “**A COMPARATIVE STUDY OF CCSA AND OCCSA**” in International Journal of Engineering Science & Advanced Technology [**IJESAT**] Volume-7, Issue-2, 170-175.
  - A journal on “**Analysis of Radio Frequency and Mechanical Properties of Bridge Based Shunt Capacitive RF MEMS Switch**” in Journal of Advanced Research in Dynamical and Control Systems (**JARDCS**) Special Issue – 02 / 2017 Volume 9.
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- A journal on “**Analysis of Radio Frequency and Mechanical Properties of Bridge Based Shunt Capacitive RF MEMS Switch**” in International Journal of Pure and Applied Mathematics (**IJPAM**) Special Issue – Volume 117 No. 19, 2017.
  - A journal on “ **Design and Simulation of CMF with Three Conductor Model** “ in International Journal of Research In Electronics And Computer Engineering (**IJRECE**) Vol. 6 Issue 1 Jan.-Mar. 2018.
  - A journal on “**Design and Simulation of Loop and Dipole Antenna over Polarized AMC Surface**“ in International Journal of Research In Electronics And Computer Engineering (**IJRECE**) Vol. 6 Issue 1 Jan.-Mar. 2018.
  - A journal on “ **Secure Boot of Zynq Ultra Scale+ ZCU102 FPGA used in 5G Communications** “ in Journal of Information and Computational Science (**JOICS**) Volume 10 Issue 1 – 2020.
  - A journal on “**Evaluation of a novel approach for the diagnosis of BMD using CBIR and IOT** “ in International Conference of Advance Research and Innovation (ICARI-2020)

### CONFERENCES

- A Paper on “**Structural Analysis And Design Of Microstrip Antenna For S-Band Applications**” in 2016 International Conference on Control, Instrumentation, Communication & Computational Technologies **ICCICCT-2016** 16th and 17th December 2016.
- A paper on “**Single Layer Multi-Broadband Circularly Polarised Annular-Slot Antenna For WLAN Applications** “ in International Journal Of Research In Electronics And Computer Engineering (**IJRECE**) at National Conference On “Communication, Electronics Instrumentation and Computing (NCCEIC-19 ) on 15th March 2019.

- A paper on “**Simulation And Fabrication Of Compact Four Band hybrid Filtering Antenna Using Step Impedance Resonators And Tuning Stub Transition Structures** “ in International Journal Of Research In Electronics And Computer Engineering (**IJRECE**) at National Conference On “Communication, Electronics Instrumentation and Computing (NCCEIC-19 ) on 15th March 2019
- A technical paper on “ **Perforated serpentine membrane with IN as dielectric material shunt capacitive RF MEMS switch fabrication and characterization**” by Microsystem Technologies , Springer-Verlag GmbH Germany during January 2020

### SEMINARS

Attended a National Level seminar **NCER -2010** on free software moment

### WORKSHOPS/ FDPs Attended

- Attended a Three Day Workshop on “**ANSYS HFSS & 3D PRINTING**” by Dept. of ECE at Vignan’s University ,Vadlamudi,Guntur.
- Attended Three day Faculty Development Programme on “ **VLSI DESIGN TECHNIQUES USING XILINX & MENTOR GRAPHICS EDA TOOLS**” by CoreEL Technologies at Andhra Loyola Institute of Engineering & Technology, Vijayawada.
- Attended a One Day “ **NBA Orientation Programme**” conducted at Andhra Loyola Institute of Engineering & Technology, Vijayawada
- Attended a Four Day Workshop on “ **NI-Labview**” by National Instruments at Andhra Loyola Institute of Engineering & Technology, Vijayawada.
- Attended a Three Day Workshop on “**Labview & Multisim**” by National Instruments at Andhra Loyola Institute of Engineering & Technology, Vijayawada.
- Two-Days Workshop on **MATLAB** and Its Applications in Engineering by Capricot Technologies Pvt. Ltd. held at Andhra Loyola Institute of Engineering & Technology, Vijayawada.
- Attended a **National level workshop** on “**Research Methodologies in Electro Magnetics**” by **Dr.R S Raju**, Chief Scientist, MW Tubes Divison, **CEERI, PILANI** at **VVIT,Guntur**
- Attended workshop on “**OUTCOMES-BASED ENGINEERING EDUCATION FOR ENHANCED EMPLOYABILITY**” by Resource person **Dr. P G Sasthri** at Amritha Sai Institute of Science & Technology, Paritala.
- Two-Days Workshop on **MATLAB** and Its Applications in Engineering held at Andhra Loyola Institute of Engineering & Technology, Vijayawada

- FDP on "**Data Analytics & Tools**" held on **13.05.2020**.
- FDP on "**Drone Industry Insights**" held on **14.05.2020**
- FDP on “Modern Research Trends in Communication, Signal Processing and VLSI/MEMS”, from 19th to 23rd May 2020.
- FDP on "VLSI Technology and Hardware for AI &ML" during May 25-27,2020
- FDP on "Digital Image Processing Using MATLAB from 24th to 27th April,2020.
- FDP on "Digitalization" held on 15th may,2020.
- FDP on "**NAAC Awareness Programme for Faculty**" organized by Marathwada Mitra Mandal Institute of Technology (MMIT conducted online during the period 08/05/2020 to 14/05/2020.
- **Faculty Program on NBA** on 5/9/2020, with a passing score of 65% organized by Bharati Vidyapeeth College Of Engineering, Navi Mumbai.
- FDP on "**Legal Challenges in Starting up a Buisness**" on 10th May 2020 organized by Institution’s Innovation Council (IIC) of Sri Venkateshwaraa College of Engineering and Technology.
- **FDP on** “Awareness Program on Intellectual Property Rights” on 14-5-2020 , with score of 92%
- One Week Faculty Development Program on Online Teaching Etiquette and Best Practices from 10-05-2020 to 15-05-2020, Organized by Santhiram Engineering College, Nandyal
- **FDP on** “Faculty Awareness Programme on Outcome Based Education (OBE) and NBA Accreditation“ organised by Sinhgad Institute of Technology and Science, Narhe.

#### **ONLINE WEBINARS ATTENDED**

- Participated in the Online webinar Technology Programme on "LabVIEW", conducted by LabVIEW Academy, SJBIT, Bengaluru, from 04-05-2020 to 08-05-2020.
- Participated in the Online webinar on Classifications of Bio Medical Images using Whale Optimization Algorithm on 20th may,2020.
- Participated in the Online webinar on "Digital Circuits for VLSI Design" held on 25-05-2020.
- Participated in the Online webinar on “**FUNDAMENTALS OF SIGNALS AND SYSTEMS**” conducted by **Christ the King Engineering College, Coimbatore dated 25-5-2020**.
- Participated in the Online webinar on “**WEBINAR ON MACHINE LEARNING FOR REAL WORLD APPLICATIONS**” conducted during **25-28, May 2020**.
- Participated in the Online webinar on “**Opportunities for Research with DRDO**” held on **29.05.2020**

- Participated in the Online webinar on **“Overview of Machine Learning, Deep Learning and Natural language Processing using Python”** organized by Department of Electronics and Communication Engineering of Kings College of Engineering, Pudukkottai on 27th May 2020
- Participated in the Online webinar on **“Recent Trends of ICT & 5G towards Sustainable Development Goals”** organized by Department of Electronics & Communication Engineering, Poornima College of Engineering on Saturday, 30 May, 2020.
- Participated in the Online webinar on **Effective use of ICT Tools Organized by Department of CSE, SANTHIRAM ENGINEERING COLLEGE, Nandyal on 10-05-2020.**
- Participated in the Online webinar on **“Smartphone Security Issues in The Digital World” on 16/05/2020**
- Participated in the Online webinar on **“A Webinar on Virtual Classroom Management using Microsoft Teams”**, an online training program offered remotely on 11/05/2020.
- Participated in the Online webinar on **THE NEED FOR CHANGE IN PEDAGOGY AND A SIMPLE WAY TO TEACH ONLINE WITH A SMARTPHONE FOR BEGINNERS**, organised by Usha Rama College of Engineering and Technology, Telaprolu, Andhra Pradesh, India on 11th May, 2020.

#### **Online Quiz Programmes Attended**

- Completed **National Level Quiz on NBA** on 1-6-2020, organized by the Department of Computer Engineering, P.V.P.P. College of Engineering, Mumbai
- Completed "Electronic Quiz" on 02-06-2020 with passing score 100%.
- Completed **National Level Quiz on "Fundamentals of Signal Processing"** conducted on **02-06-2020 with score of 100%**
- completed an Online Quiz on **“Research Metrics in Scientific Publications”** conducted on 27-05-2020 with a score of 100%
- Completed **National Level Quiz on NAAC** on 27-5-2020, organized by Department of Computer Engineering, P.V.P.P. College of Engineering.
- Completed Quiz on MATLAB SKILL TEST organized by Department of Electronics & Communication Engineering, Raghu Engineering college for enhancing the Knowledge on Matlab tool from 15th may to 17th may 2020
- Completed **“Quiz on basics of computer and IT skills ”** Organized by Information Technology Department of Shree L . R . Tiwari College of Engineering on 5/9/2020.
- Completed **“Quiz on Recent Trends in IT ”**Organized by Information Technology Department of Shree L. R. Tiwari College of Engineering on 5/9/2020