

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

Name of the Faculty	Dr.S.MALLIKHAR	JUNA RAO		
Designation	Associate Professo	or		
Department	ELCTRONICS AND	COMMUNICATIO	ON ENGINEERING	
Date of Joining the Institution	13-06-2011	13-06-2011		
	PhD: Vel Tech University			
Qualification with Class/Grade	PG: M.Tech with 1st Class with Distinction from AU			
	UG: B.Tech with First	Class from JNTU	н	
Employee ID	ALIET-11-02	ALIET-11-02		
E-Mail	smr.aliet@gmail.com,	smr.aliet@aliet.ac	.in	
Blogger/ website/ webpage	smallikharjun.blogger	.com		
Total Experience in Years	Teaching: 11+ years	Industry: 0 year	rs	
Papers Published	National: 00 International: 17			
Papers presented in Conferences	National: 00 International: 03			
Projects Guided	Projects at Masters Level: 05			
1 Tojects Guided	Projects at UG Level: 19 Batches			

IE, IFERP, IAENG
Acted as coordinator for MAYUKHA, a student national level
technical symposium held in ALIET in AY 2011-12.
Acted as coordinator for MAYUKHA, a student national level Acted as coordinator for MAYUKHA, a student national level
technical symposium held in ALIET in AY 2012-13.
• Acted as coordinator for EPISTEMICON , a student national
level technical symposium held in ALIET from the AY 2013-
14 till date.
• Organized a "FOUR DAY WORKSHOP ON NI-Lab VIEW" from 19 th to 22 nd September 2016.
 Organized and acted as a Speaker in a Two day Workshop on "A Role of Transducers & Programmable devices in control & Medical Applications using IOT" from 30th June to 31st June 2017.
 Organized and acted as Speaker in a Three day Workshop on "A Role of Transducers & Programmable devices in control & Medical Applications using IOT" from 12th December to 14th December 2017.
• Organized a Three day Workshop on "RF Antenna Design" from 27 th June to 29 th June 2018.
 Organized and acted as Speaker in a Two day Workshop on "A Role of Transducers & Programmable devices in control & Medical Applications using IOT" from 13th Feb to 14th Feb 2019.
Organized a National Conference On "Innovative"
Technologies And Data Communications Engineering" on 22 nd April 2017.
• Act as a Co-Convener for National Conference On "Communication, Electronics, Instrumentation and Computing" on 15 th March 2019.

Other Responsibilities	 College NBA coordinator College SC-ST Cell Coordinator ACADEMIC coordinator for ECE department. NBA coordinator for ECE department
Whether Ratified by University (Yes/No)	YES

Faculty Development Programmes attended: 2019-20

Sl No	Title	No of days	Da	ate	Orgnizer
1	FDP on Digital image processing using Matlab	4	24-04-2020	27-04-2020	skill to hire
2	Faculty Development Programme on SCILAB	5	29-04-2020	03-05-2020	PSCMRCET
3	Faculty Development Programme on Arduino	5	29-04-2020	03-05-2020	PSCMRCET
4	FDP online coolage mangement and online tools	3	30-04-2020	02-05-2020	Lala Lajpatrai College of Commerce & Economics & North Storm Academy.
5	FDP on Writing Quality Research Paper and Proposal	1	22-05-2020		International School of Management, Patna
6	FDP on Data Science and Machine Learning using Python	4	20-04-2020	23-04-2020	KLUniversity
7	7 FDP on Advanced Antenna Design Using HFSS		12-05-2020	17-05-2020	Santhiram Engg college
8	8 Faculty Development Programme on Arduino		20-05-2020	25-05-2020	Prakasam Engg College
9	FDP on Artificial intelligence and Its 6 25-05-2020 30-0 Applications		30-05-2020	Ramachandra coll of Engg, Eluru	
10	FDP on Microstrip Antenna for 2 15-05-2020 16-05- Advanced Wireless comunication		16-05-2020	Kallam haranadhareddy inst of tech	
11	FDP 6 22-05-2020 and Online Training on "R Programming"		28-05-2020	Prakasam Engineering College, Kandukur	
12			25-05-2020	29-05-2020	Usharama Coll of Engg & Tech
13	13 Faculty training program on cyber security		23-05-2020	27-05-2020	Srinivasa Ramanujan Institute of Technology
14	FDP on Online Teaching Etiquette and Best Practices	6	10-05-2020	15-05-2020	Santhiram Engg college

15	FDP on Data Science using Python	10	15-05-2020	24-05-2020	LBRC
16	FDP on ARTIFICIAL INTELLIGENCE		22-05-2020	26-05-2020	BVRIT Hyderabad
17	Challenges and avancement in the design of IoT, Embedded and VLSI systems		08-06-2020	13-06-2020	Gudlavalleru Engg Coll
18	18 Faculty Training Program (online) on "Cyber Security		23-05-2020	27-05-2020	Srinivasa Ramanujan Institute of Technology (Autonomous
19	FDP on IoT with Artificial Intelligence	3	27-05-2020	29-05-2020	Sri C R Reddy coll of Engg
20	20 Faculty Awareness Programme on NBA to keep in touch with NBA Accreditation		17-05-2020		PACE Int. Of Tech & Scienc
21	Faculty Awareness Program on "Research Methodology	6	20-05-2020	25-05-2020	Rajgad Dnyanpeeth's Shri Chhatrapati Shivajiraje College of Engineering, Pune
22	NAAC Awareness Programme for Faculty	7	08-05-2020	14-05-2020	Marathwada Mitra Mandal Institute of Technology (MMIT), Lohgaon, Pune
23	, 3		09-05-2020		Bharati Vidyapeeth College Of Engineering, Navi Mumbai
24	Faculty Awareness Programme on Outcome Based Education (OBE) and NBA Accreditation	1	14-05-2020		Sinhgad Institute of Technology and Science, Narhe,Pune
25	FDP on Digital Teaching Techniques	6	29-06-2020	04-07-2020	ICT Academy

Webinars attended: 2019-20

Sl No	Date	Title	Orgnizer
1	30-04-2020	Webinar on Artificial Intelligence & Machine Learning-Challenges, Opportunities and Emerging Applications"	K L University
2	15-05-2020	Digitalization	Srivenkateswaraa coll of engg & tech., pondicherry
3	24-04-2020	Webinar on Examination reforms to complement OBE requirements	K L University
4	25-04-2020	A Webinar on Machine Learning Techniques for detection and classification	K L University

5	14-05-2020	8 webinar on OBE	Vmedulife
6	16-05-2020	Renewable energy using Matlab	GCE, Thanjavur & Pantech solutions
7	11-05-2020	A Webinar on Virtual Classroom Management using Microsoft Teams	LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING
8	10-05-2020	Effective use of ICT Tools	Santhiram Engg coll
9	11-05-2020	THE NEED FOR CHANGE IN PEDAGOGY AND A SIMPLE WAY TO TEACH ONLINE WITH A SMARTPHONE FOR BEGINNERS	Usha Rama College of Engineering and Technology
10	01-05-2020	Enhancing Research Effectiveness using Scopus, Sciencedirect and Mendeley	FACULTY DEVELOPMENT CENTRE KURUKSHETRA UNIVERSITY, KURUKSHETRA
11	10-05-2020	Legal Challenges in Starting up a Buisness	Sri Venkateshwaraa College of Engineering and Technology, Puducherry
12	13-05-2020	What do we do on product based companies	Sri Venkateshwaraa College of Engineering and Technology, Puducherry
13	29-05-2020	Opportunities for Research with DRDO"	Defence Institute of Advanced Technology (DIAT), DRDO, Ministry of Defence, Govt. of India, A.V.C. COLLEGE OF ENGINEERING
14	11-06-2020	DESIGN OF MICROSTRIP PATCH ANTENNAS	Sri Venkateswara College of Engineering and Technology (Autonomous), Chittoor, Andhra Pradesh
15	18-06-2020 & 19-06-2020	Importance of Research and How to Prepare for Accreditation	Krishna Chaitanya Institute of Technology & Sciences, Markapur
16	17-06-2020	Research Issues in Bio-fabrication Systems	K.Ramakrishnan College of Technology, Samayapuram, Trichy
17	28-05-2020	5G Technology & Its Applications	Sri Vasavi Institute of Engg & Tech
18	10-06-2020	Antenna design: Recent trends and applications	Government Art College, Kulithalai, TN
19	29-05-2020	Webinar on " Use of OPEN STACK for Conducting Cloud Computing Focussed Research	K L University
20	24-04-2020	A Webinar on Examination reforms to complement OBE requirements	K L University
21	16-06-2020	Webinar on medical image processing using Python	Saveetha Engg Coll
22	14-06-2020	Webinar on medical video compression & its Applications Saveetha Engg Coll	
23	27-05-2020	Webinar on "Touching Sky Without Fear	PSCMR

24	08-06-2020 & 09-06-2020	Two days webinar on EM SIMULATION OF RF MODULES & ANTENNAS USING CST STUDIO SUITE	Delhi Technological University, Delhi
25	30-05-2020	webinar on Knowledge sharing on A to Z journals publications	IFERP
26	24-06-2020	webinar on Recent trends and techs in global communications	Saveetha Engg Coll
27	15-06-2020	Webinar on MEMS based sensor for chemical & biochemical sesnsing applications	Sri Vasavi Engg college, Tadepalligudem

Quiz attended: 2019-20

Sl No	Date	Title	Orgnizer
1		Awareness on _Covid-19	Coll of Engg Vizianagaram. JNTUK
2	25-05-2020	electronics	Holy mary Inst
3	09-05-2020	Quiz on basics of computer and IT skills	Shree L . R . Tiwari College of Engineering
4	09-05-2020	Quiz on Recent Trends in IT	Shree L . R . Tiwari College of Engineering
5	21-05-2020	E-Quiz on Numerical Methods	Avvaiyar Government College for Women, Karaikal
6	14-05-2020	Awareness Program on Intellectual Property Rights	Shri Chhatrapati Shivajiraje College of Engineering
7	14-06-2020	National Level Online Quiz on "E-Learning	Padmabhushan Vasantdada Patil Pratishthan's College of Engineering Sion Mumbai- 22.
8	29-05-2020	quiz on "Fundamentals of Computer Networks	Holy Mary Institute of Technology & Science
9		Quiz on Intellctual property Rights	AMET, Chennai
10	03-06-2020	Quiz on "Basics of Microprocessors & Microcontrollers	Holy Mary Institute of Technology & Science
11	31-05-2020	Quiz on "Digital System Design with ASM Charts	Holy Mary Institute of Technology & Science
12	31-05-2020	National Level Quiz on NBA	P.V.P.P. College of Engineering, Mumbai
13	28-05-2020	GATE Syllabus Based Technical Quiz Phase-I	Mahendra Institute of Technology

Workshops attended: 2019-20

Sl No	No of Days	Date	Title	Orgnizer
1	6	25-05-2020 to 30-05-2020	Robotics Powerd by ROS	G.Narayanamma Institute of Technology and Science
2	2	16-05-2020 & 17-05-2020	VLSI circuits analog & digital design perspectives	JNTUA
3	3	25-06-2020 to 27-06-2020	Workshop HANDS-ON EXPERIENCE WITH ARDUINO USING VIRTUAL TOOL	Potti sriramulu C M R Coll of Engg & Tech

Other Programs Attended 2019-2020

Program	No of Days	Date	Title	Orgnizer
International Conference	1 3 1 to		International E-Conference on "Strategies & Challenges in Higher Education during COVID-19 Lockdown Period in India with reference to the World"	Gov. Vidarbha institute of science & Humanities, Gov of Maharashtra
International Symposium	1	09-06-2020	Interdisciplinary international symposium COVID 19 socio economic and traumatic challenges impacting migrant workers	ALIET
Industry Focused progam	5	22-06-2020 to 26-06-2020	The role of engineers in Making India a five trillion dollars econamy	UNITIEUP

RESEARCH PUBLICATIONS:

List of Publications (Conferences):

- "IMAGE PROCESSING BASED INTELLIGENT TRAFFIC CONTROLLING AND MONITORING SYSTEM
 USING ARDUINO" 2016 International Conference on Control, Instrumentation, Communication
 and Computational Technologies (ICCICCT), 978-1-5090-5240-0/16 © 2016 IEEE.
- 2. "Fm0 and Manchester Encoding Using Sols Technique with Clock Gating & Power Gating Methods". International Conference on Communication and Signal Processing, April 6-8, 2017, India. 978-1-5090-3800-8/17 ©2017 IEEE.

3. "A CPW Fed Patch Antenna Design for Weather Monitoring, Air Traffic Control and Defence Tracking Applications". Proceedings of the Fourth International Conference on Computing Methodologies and Communication (ICCMC 2020)IEEE Xplore Part Number: CFP20K25-ART; ISBN:978-1-7281-4889-2

List of Publications (Journals):

- 1. "Multi Point Short Range Wireless Data Communication System Using Zigbee Network" International Journal of Research in Computer Engineering and Electronics. 1 ISSN 2319-376X VOL: 1 ISSUE:2 Oct'12.
- 2. "Design and Analysis of monopole Antenna With Two Layered EBGS at One Side"-International journal Of Advanced Research In Computer And Communication Engineering,, Volume 2, Issue 4, April 2013.
- **3.** "Energy Efficiency Of MIMO-OFDM Communication System" in International journal Of Engineering Research And Applications,, Volume 4, Issue.
- **4.** "Resource Allocation And Identification Of OFDM Signals In Distributive Antenna Systems" International Journal of Engineering In Advanced Research Science and Technology ISSN: 2278-256, November 2016, VOLUME -2, ISSUE-4, Page:7911-17.
- **5.** "Gesture and Joystick Controlled Multipurpose Automated Wheelchair" Indian Journal of Science and Technology, Vol 10(33), DOI: 10.17485/ijst/2017/v10i33/117230, September 2017, ISSN (Print): 0974-6846, ISSN (Online): 0974-5645.
- **6. "Design Of Low Power 4bit Synchronous Counter Using Adiabatic Logic",** SSRG International Journal of Computer Trends and Technology (IJCTT) Special Issue April 2017.
- 7. "Door Unlock using Face Recognition"- International Journal of Advanced Research in Electronics and Communication Engineering (IJARECE) Volume 6, Issue 4, April 2017.
- **8.** "A Novel Spectrum Sensing Method in Imperfect Channels" International Journal for Modern Trends in Science and Technology, Volume: 03, Issue No: 06, June 2017.
- 9. "Rotation Invariant Local Maximum Edge Binary Pattern (LMEBP) based Segmentation of Defocus Blur" IJRECE, VOL. 5, ISSUE 2 APR.-JUNE. 2017, ISSN: 2393-9028 (PRINT) | ISSN: 2348-2281 (ONLINE).
- **10.** "A Novel Method for Low Resolution Video Enhancement using Super Resolution Technique" International Journal of Advanced Scientific Research and Management, Vol. 3 Issue 7, July 2018: ISSN 2455-6378.
- **11. Reconfigurable Antenna using Micromechanical Actuation Switches for K and Ku-Band Applications.** International Journal of Engineering and Advanced Technology (IJEAT), Volume Volume 9, Year 2019, Pages 201-205.

- **12. Design and Implementation of IoT Based Smart Shopping Cart using RFID Technology.** IJRECE, Volume Volume 7, Year 2019, Pages 1359-1362.
- **13. Design and implementation of multipurpose agribot using python & raspberrypi.** IJRECE, Volume Volume 7, Year 2019, Pages 1394-1396
- **14. DESIGN A FREQUENCY RECONFIGURABLE MICROSTRIP PATCH ANTENNA For satellite communication.** International journal of recent technology and engineering (ijrte)., volume 8, year 2019, pages 2498 to 2504.
- **15.** A Novel Design And Simulation Of U-Shaped Microstrip Patch Antenna For Future 5G Mobile Communication. International journal of scientific & technology research. Volume volume 9, year 2020, pages 607-616

WORKSHOPS & SEMINARS:

- Participated in "EMPOWERS PROGRAMME-2012" from 8th to 15th Feb 2012.
- Participated in "SIX DAY WORKSHOP FOR FACULTY ON ANALOG SYSTEM DESIGN USING TEXAS INSTUMENTS ANALOG SYSTEM LAB KIT (ASLK)" form 4th to 9th June 2012.
- Participated in "FALCON ELECTRO-TEK PVT.LTD" on 22th June 2012.
- Participated in "TWO DAY WORKSHOP FOR FACULTY ON SYSTEM DESIGN USING XILINX FPGA" on 27th & 28th June 2013.
- Participated in an International Seminar on "The Unknowable and the Counterintuitive: The Surprising Insights of Engineering" on 6th July 2013.
- Participated in the National seminar on "TRAINING IN LAY COLLABORATION" from 4-6 October 2013.
- Participated in "ADVANCED TRENDS IN EMBEDDED SYSTEMS", ATES-2014 on 28th Feb-1st March 2014.
- Participated in "OVERVIEW ON LATEST TELECOM TECHNOLOGIES" by BSNL from 9-2-2015 to 11-2-2015.
- Participated in "ENGINEERING EDUCATION AND RESEARCH SEMINAR" on 19th

August 2015.

- Participated on "BIO-SIGNAL PROCESSING AND MEASUREMENTS AND COMPUTING EVERYWHERE" from 26-28 NOVEMBER 2015.
- Participated in "MATLAB, SIMULINK & RELATED TOOL BOXES FOR ENGINEERING EDUCATION" on 11th & 12th December 2015.
- Participated in "MATLAB, SIMULINK FOR ENGINEERING EDUCATION" on 5th February 2016.
- Participated in "A ONE DAY NBA ORIENTATION PROGRAM" on 6th June 2016.
- Participated in "Applications of Lab VIEW & MULTISIM" on 8th, 9th, 10th June 2016.
- Participated in the "NPTEL workshop" on 25-6-2016.
- Participated a three day FDP on "VLSI DESIGN TECHNIQUES USING XILINX & MENTOR GRAPHICS EDA TOOLS" on 23rd to 25th June 2016.
- Participated in "A Two Day workshop on Mentor Graphics EDA Tools" on 17th & 18th April 2017.
- Participated in "A Three Day FDP on Industrial IoT using NI Graphical System Design Platform" from 13th July to 15th July 2017.
- Participated in a six day FDP on "Machine Learning applications in Signal Processing" from 4-9th Feb 2019, held at Gudlavalleru college of Engineering, organized by E& ICT academy NIT Warangal.