

ABOUT ACET

Aditya College of Engineering & Technology was established in the year 2004. It is approved by AICTE, recognized by Govt. of Andhra Pradesh, permanently affiliated to Jawaharlal Nehru Technological University Kakinada (JNTUK). The college received UGC recognition under Sections 2(f) & 12(B) of the UGC Act. The college is Autonomous, NBA and NAAC A+ with CGPA 3.40. The college proudly offers 4 Diploma, 8 UG and 4 PG programs in engineering, MCA, MBA with 15 years of rich standing in the educational era. Besides, the college has added many feathers in its cap which include AA+ Grade by Careers 360, South India 4th rank by Digital Mailers, South India 6th rank by Silicon India, 13th rank out of top 25 engineering colleges by 4Ps, a niche in Asia top 100 colleges by WCRC leaders, Best Placement Award by ASSOCHAM, All India 98th rank-DQ CMR top T-School survey by DATA Quest and 13th position in Top 20 colleges of India by the Sunday Indian. These districts recognitions speak volumes of the institute's objective to promote engineering excellence. The total student strength is 5052 with faculty strength of 355 thus giving rise to healthy faculty student ratio.

PROGRAMS OFFERED BY ACET

Diploma Programs

1. Diploma in Civil Engineering
2. Diploma in Electrical & Electronics Engineering
3. Diploma in Mechanical Engineering
4. Diploma in Electronics & Communication Engineering

UG Programs

1. Civil Engineering
2. Electrical & Electronics Engineering
3. Mechanical Engineering
4. Electronics & Communication Engineering
5. Computer Science & Engineering
6. Artificial Intelligence & Machine Learning
7. Data Science
8. Information Technology

PG Programs

1. Power Electronics & Drives
2. Thermal Engineering
3. Embedded Systems
4. Computer Science & Engineering

CHIEF PATRON

Dr. N. Sesha Reddy,
Chairman, Aditya Educational Group.

PATRON

Dr N. Satish Reddy,
Pro-Chancellor, Aditya University
Vice-Chairman, Aditya Educational Group.
Dr. M. Srinivasa Reddy,
Deputy Pro-Chancellor, Aditya University.

CO PATRON

Dr. A Ramesh,
Professor & Principal,
Aditya College of Engineering & Technology(A).

PROGRAM EVALUATION COMMITTEE

1. Dr R. V. V. Krishna, Professor & HOD
2. Dr Ch. Ravi Kumar, Dean- Academics
3. Dr Y. K. S. Subba Rao, Dean- Administration
4. Dr G. Sanjeev Rao- Dean IQAC
5. Dr K. Manoj Kumar - Dean Evaluation
6. Dr Ch.V. Raghavendran, Dean- R&C
7. Dr D. Kishore, Dean-Career Guidance
8. Dr G. A. Arunkumar, Associate Professor
9. Dr R. Anil Kumar, Associate Professor

ORGANIZING COMMITTEE

1. Dr.V Vijayasri B, Associate Professor
2. Dr. Venkata Lalitha Narla, Associate Professor
3. Dr. Inakoti Ramesh Raja, Associate Professor
4. Dr. A. Rama Vasantha , Associate Professor
6. Dr. G. Srilakshmi, Associate Professor
7. Mr. G. Sattibabu, Associate Professor
8. Mr. P.Ramesh Kumar, Associate Professor
9. Mr. T.Anjaiah, Associate Professor
10. Mrs. P. A. Sravanthi, Associate Professor
11. Mrs.V.Preethi, Associate Professor
12. Mr. K. L. V. Prasad, Associate Professor
13. Mrs. Sneha M Joseph, Sr Assistant Professor
14. Mrs. K.Kalyani Sr Assistant Professor



ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY(A)

(Approved by AICTE-New Delhi & Permanently Affiliated to JNTUK)
Accredited by NAAC & NBA

AICTE SPONSORED ATAL

Faculty Development Program (FDP)
on

*"Multicarrier Modulation Techniques for 6G
Wireless Communications"*

08th – 13th December, 2025



Program Coordinator

Dr. R. V. V. Krishna

Program Co-Coordinator

Dr. R. Anil Kumar

Organized by

Department of ECE



ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY(A)

(Permanently Affiliated to JNTUK KAKINADA and Approved by AICTE, New Delhi, accredited by NAAC), Recognized by UGC under section 2(f) & 12(B) of Act 1956, NAAC, NBA. Aditya Nagar, ADB Road, Surampalem – 533437, Andhra Pradesh,

Phone: +91 90002 76662, Email: principal@acet.ac.in

Website: www.acet.ac.in

ABOUT THE DEPT. OF ECE

The ECE department was established in the year 2004 with an intake of 60 students and now it has been expanded to an intake of 240 students. The Department got accredited by NBA. The Department is recognized as Research Centre by JNTUK, Kakinada. The Department has IETE, IEEE student forum, under which the department organizes professional activities. We have Modern state of the art and well-furnished labs like Advanced MATLAB, M&OC Lab, High configuration Lab with Cadence tool, Xilinx Vivado Modern Communication Lab and Research lab etc. with excellent laboratory facilities and dedicated faculty. We have received funds from IEL, SERB, IETE, MHRD etc.

ABOUT THE FDP PROGRAM

The aim of the offline FDP on "Multicarrier Modulation Techniques for 6G Wireless Communications" is to provide educators, researchers, and professionals in the field of wireless communication with an in-depth understanding of the latest advancements and paradigms that go beyond traditional Wi-Fi technologies. The program aims to equip participants with the knowledge and skills needed to address the challenges and opportunities presented by the evolving landscape of wireless networks.

TOPICS FOR THE SESSIONS

Date	Time	Topics to be covered
08-12-25	9:30-12:0PM	5G and beyond
	1.30-4.00PM	Multicarrier Modulations
09-12-25	9:30-12:0PM	Transceiver SoCs
	1.30-4.00PM	Channel Estimation in 5G
10-12-25	9:30-12:0PM	Role of signal processing WC
	1.30-4.00PM	5-Nines Radio - 5G Testbed
11-12-25	9:30-12:0PM	Security & Resilience in WC
	9:30-12:0PM	Evolution of Wireless Communications: 1G to 6G
12-12-25	9:30-12:0PM	VLC for 5G and beyond
	1.30-4.00PM	Industrial Visit
13-12-25	9:30-11:0PM	6G Challenges BSNL case study
	11.15-12.30PM	Research Methodologies
	12:30 – 1:0PM	Articles Summary Discussion
	1.30 – 5:30PM	Quiz, Feedback & Valedictory

Resource Persons



Dr. Bijayananda Patnaik
Associate Professor in ECE dept.
NIT-Rayagada,
Odisha.



Prof. G Sasi Bhusana Rao
Principal, College of Engineering,
Andhra University,
Vishakhapatnam, AP.



Mr. I. B. Krishna Raju (Industry)
Senior Engineer Tessolve,
Semiconductor Pvt Ltd
Hyderabad, Telangana.



Mr. D. Sriramulu (Industry)
Research Engineer
Communication Dept.
Central for Development of
Telematics



Dr. Anil Kumar Vuppala
Associate Professor
IIIT Hyderabad
Expert in Signal Processing



Dr. Prabhu Chandhar
Director, Basig Wireless
Laboratories Private Limited,
Mayiladuthurai, Tamil Nadu, India.



Dr. Ravi Kumar J
Professor
Electronics and communication
Engineering,
NIT Warangal, Telangana,



Mr. B. Subbarao (Industry)
Sub Divisional Engineer
Digital Transmission Center
Guntur, Vijayawada.



Prof. Venkata Mani V
Professor in ECE dept.
NIT-Warangal.
Telangana.



Mr. N. Venkata Satish (Industry)
Sub Division Engineer Incharge
Bhanjanagar,
Berhampur division,
Orissa.



Dr. Ch. Srinivasa Rao
Principal & Professor of ECE,
UCEN, Narasaraopet,
Andhra Pradesh.

Registration Fee

No Registration Fee for the participants

Maximum no. of Participants: 50

Selection will be based on **First-Come-First Serve basis**

The presentations will be conducted in offline. Certificate will be provided to the participants based on attendance and offline quiz

Registrations:

Academicians, Professionals and Research Scholars, who have a passion and interest in an Integrative approach to advanced multicarrier modulations in wireless communications can register on or before **28th November 2025**.

Registration steps to FDP:

Sign up at: <https://atalacademy.aicte.gov.in/signup>

After, log in here: <https://atalacademy.aicte.gov.in/login>

On the left side, click FDPs.

In the search options: Type: ATAL Offline, Month:

December, Thrust Area: All, Mode: Offline

Search for Application No. 1743744256.

Click the plus (+) button to apply and upload the NOC.

The selected participants will be intimated through an email on or before **01st, December 2025**.



Contact Details



Dr. R. V. V. Krishna
Professor & HOD in dept of ECE.
Aditya College of Engg. & Tech(A)
Phone No: 77310 81166
E-mail: ece1_hod@acet.ac.in



Dr. R. Anil Kumar
Associate Professor in dept of ECE.
Aditya College of Engg. & Tech(A)
Phone No: +91 9494954969
E-mail: anidecs@gmail.com

Schedule of BASIC FDP

FDP Application Number: 1743744256

Title of the FDP: Multicarrier Modulation Techniques for 6G Wireless Communications

FDP Start Date: 08-12-2025

FDP End Date: 13-12-2025

Day 1(08-12-2025)	Day 2(09-12-2025)	Day 3(10-12-2025)	Day 4(11-12-2025)	Day 5(12-12-2025)	Day 6(13-12-2025)
9:00 – 9:30 Inauguration					
9:30 – 12:00 Name of the Expert: Dr. Bijayananda Patnaik, Associate Professor, Electronics & Telecom. Engineering, NIT Raipur, Chhatisgarh. Experience in Years: 22 Topic: 5G and beyond and Inter-Satellite Optical Wireless Communication	9:30 – 12:00 Session 3 Name of the Expert: Mr. Balarama Krishna Raju Indukuri (Industry) Senior Engineer Tessolve, Semiconductor Pvt Ltd Hyderabad, Telangana. Experience in Years: 24 Topic: Design-for-Testability Challenges in 6G Transceiver SoCs	9:30 – 12:00 Session 5 Name of the Expert: Dr. Anil Kumar Vuppala Designation: Associate Professor Organization: IIIT-Hyderabad. Experience in Years: 13 Topic to be taught: Role of signal processing in wireless communications with ML/DL	9:30 – 12:00 Session 7 Name of the Expert: Dr. Ravi Kumar J Professor Electronics and communication Engineering, NIT Warangal Telangana, Experience in Years: 24 Topic: Security and Resilience in wireless communications	9:30 – 1:00 Session 9 Name of the Expert: Prof. Venkata Mani V Professor, Department of Electronics and Communication Engineering, NIT, Warangal, Telangana. Experience in Years: 27 Topic: VLC for 5G and beyond	9:30 – 11:00 Session 10 Name of the Expert: Mr. N. Venkata Satish (Industry) Sub Division Engineer Incharge Bhanjanagar, Berhampur division, Experience in Years: 11 Orissa.Topic: Deployment challenges of 5G in India with BSNL case study
12:00 – 1:00 1.Title of the Research Paper: Create teams, assigning research articles, a small discussion on reading article 2. Name of the journal: IEEE Journal of Emerging and Selected Topics in Power Electronics 3. Year of Publication: 2024	12:00 – 1:00 Article Discussion 1.Title of the Research Paper: Testbed for a Novel Approach to Minimizing the PAPR of 5G Systems 2.Name of the journal: IEEE Access 3. Year of Publication: 2024	12:00 – 1:00 Article Discussion Title of the Article: An LED modelled GFDM for optical wireless communications Journal: International Journal of Electronics and Communications (AEÜ) 3. Year of Publication: 2024	12:00 – 1:00 Article Discussion Title of the Article: Maximizing secure communication in SWIPT- NOMA with SIC and CSI errors Journal: AEU-International Journal of Electronics and Communications Year: 2025	12:00 – 1:00 Article Discussion 1.Title of the Research Paper: DCO-OFDM based NOMA visible light communication systems 2. Name of the journal: Optics & Laser Technology 3. Year of Publication: 2023	11:15 – 12:30 Name of the Expert: Dr. Ch.Srinivasa Rao, Principal & Professor of ECE, University College of Engineering Narasaraopet. Experience in Years: 26 Topic: Research Methodologies
1:00 – 1:30 Lunch	1:00 – 1:30 Lunch	1:00 – 1:30 Lunch	1:00 – 1:30 Lunch	1:00 – 1:30 Lunch	1:00 – 1:30 Lunch
1:30-4:00 Session 2 Name of the Expert: Prof. G Sasi Bhusana Rao, Principal. College of Engineering. Andhra University, Vishakapatnam, AP. Experience in Years: 30 Topic: Multicarrier Modulations	1:30-4:00 Session 4 Name of the Expert: Mr. D. Sriramulu (Industry) Research Engineer Communication dept Central for Development of Telematics Experience in Years: 4 Topic: Channel Estimation in 5G Communication Systems	1:30-4:00 Session 6 Name of the Expert: Dr. Prabhu Chandhar (Industry) Director, Basig Wireless Laboratories Private Limited, Mayiladuthurai, Tamil Nadu. Experience in Years: 12 Topic: 5-Nines Radio - 5G Testbed	1:30-4:00 Session 8 Name of the Expert: Mr. B Subbarao (Industry) Sub Divisional Engineer Digital Transmission Center Guntur Vijayawada. Experience in Years: 26 Topic: Future Trends & Research Directions of Wireless Communications	1:30 – 5:00 Session 10 Industrial visit Industry: BSNL Transmitter and Receiver section. Address: Rajahmundry, East Govari, Andhra Pradesh, India 30 Kilo meters from the host institute.	1:30-4:00 MCQ & Reflection Journal, Exam followed by feedback from participant
4:00 – 5:00 Practical Session Signals generation and adding noise to the signal using MATLAB/Python	4:00 – 5:00 Practical Session BER calculations for different modulation schemes, Channel estimation MATLAB	4:00 – 5:00 Practical Session Machine learning algorithms in wireless networks	4:00 – 5:00 Practical Session OFDM, GFDM, and NOMA implementations		4:00 – 5:30 Valedictory Session

Co-Coordinator

Coordinator