



LOYOLA – ICAM
COLLEGE OF ENGINEERING AND TECHNOLOGY (LICET)
 Loyola Campus, Nungambakkam, Chennai – 600034
 Department of ECE



6-Day AU Sponsored Physical Mode Faculty Empowerment Programme on “CEC331 – 4G/5G Communication Networks”

29/01/2024 – 03/02/2024

SCHEDULE

[Venue: F11 – smart Room]

Date/Time	09.00 a.m. -10.30 a.m.	10.30 a.m. - 10.45 a.m.	10.45 a.m. – 12.15 p.m.	12.15 p.m. – 1.30 p.m.	1.30 p.m. – 3.00 p.m.	3.00 p.m. – 3.15 p.m.	3.15 p.m. – 4.45 p.m.
29.01.24	Inauguration & Session-1 UNIT I EVOLUTION OF WIRELESS NETWORKS-	BREAK	Session-2 UNIT I EVOLUTION OF WIRELESS NETWORKS-	BREAK	Session-3 UNIT I EVOLUTION OF WIRELESS NETWORKS	BREAK	Session-4 UNIT I EVOLUTION OF WIRELESS NETWORKS
30.01.24	Session-5 UNIT II 5G CONCEPTS AND CHALLENGES		Session-6 UNIT II 5G CONCEPTS AND CHALLENGES		Session-7 UNIT II 5G CONCEPTS AND CHALLENGES		Session-8 UNIT II 5G CONCEPTS AND CHALLENGES
31.01.24	Session-9		Session-10		Session-11		Session-12

	UNIT III NETWORK ARCHITECTURE AND THE PROCESSES		UNIT III		UNIT III		UNIT III
01.02.24	Session-13 UNIT IV DYNAMIC SPECTRUM MANAGEMENT AND MM-WAVES		Session-14 UNIT IV		Session-15 Expt 1: 5G- Compliant waveform generation and testing Expt 2: Modeling of 5G Synchronization signal blocks and bursts		Session-16 Design of Experiments
02.02.24	Session-17 UNIT IV.		Session-18 UNIT IV		Session-19 HANDS ON Expt 3: Channel modeling in 5G networks-Viji Charles Expt 4: Multiband OFDM demodulation		Session-20 HANDS ON Expt 5: Perfect Channel estimation Expt 6: Development of 5g New Radio Polar Coding
03.02.24	Session-21 Outcome based education-Dr. Anitha		Session-22 Unit V Group Discussions		Test		Valedictory function & Certificate Distribution

Resource Person Details

Date/Time	09.00 a.m. -10.30 a.m.	10.30 a.m. – 10.45 a.m.	10.45 a.m. – 12.15 p.m.	12.15 p.m. – 1.30 p.m.	1.30 p.m. – 3.00 p.m.	3.00 p.m. – 3.15 p.m.	3.15 p.m. – 4.45 p.m.
29.01.2024	<u>Inauguration</u> Dr. R. Gayathri, Associate Professor, Department of ECE, Annamalai University, Chidambaram.	BREAK	Dr. R. Gayathri, Associate Professor, Department of ECE, Annamalai University, Chidambaram.	LUNCH BREAK	Dr. P. Madhumathy Associate Professor Department of ECE RV institute of Science & Technology Bengaluru	BREAK	Dr. P. Madhumathy Associate Professor Department of ECE RV institute of Science & Technology Bengaluru
30.01.2024	Dr C Arunachalaperumal Prof & Head Dept. of ECE Ramco Institute of technology Rajapalayam		Dr C Arunachalaperumal Prof & Head Dept. of ECE Ramco Institute of technology Rajapalayam		Dr. M. Bindhu Associate Professor Department of ECE Sri Venkateswara College of Engineering. Sriperumbudur		Dr. M. Bindhu Associate Professor Department of ECE Sri Venkateswara College of Engineering. Sriperumbudur
31.01.2024	Dr. S.R. Preethi, Associate Professor Department of ECE, SRM Valliammai Engineering College, Kattankulathur		Dr. S.R. Preethi, Associate Professor Department of ECE, SRM Valliammai Engineering College, Kattankulathur		Dr. M Kavitha, Assistant Professor, Department of ECE Sri Venkateswara College of Engineering, Sriperumbudur		Dr. M Kavitha, Assistant Professor, Department of ECE Sri Venkateswara College of Engineering, Sriperumbudur
01.02.2024	Dr. P. Suresh Dean- International Relations Professors, Department of ECE, Vel Tech Dr. Rangarajan Dr.		Dr. P. Suresh Dean- International Relations Professors, Department of ECE, Vel Tech Dr. Rangarajan Dr.		Ms, Viji Charles Assistant Professor Department of ECE, Loyola-ICAM College of Engineering and Technology,		Design of Experiments Dr. S. Dhilip Kumar Assistant Professor Department of ECE, Loyola-ICAM College of

	Sakunthala R & D Institute of Science & Technology, Avadi, Chennai		Sakunthala R & D Institute of Science & Technology, Avadi, Chennai		Nungambakkam		Engineering and Technology, Nungambakkam
02.02.2024	Dr. T. R. Ganesh Babu, Professor, Department of ECE, Muthayammal Engineering College, Namakkal.		Dr. T. R. Ganesh Babu, Professor, Department of ECE, Muthayammal Engineering College, Namakkal.		Dr. T. R. Ganesh Babu, Professor, Department of ECE, Muthayammal Engineering College, Namakkal.		Dr. T. R. Ganesh Babu, Professor, Department of ECE, Muthayammal Engineering College, Namakkal.
03.02.2024	Outcome-based education Dr. Anitha Juliette Dean of Research Associate Professor Department of ECE, Loyola-ICAM College of Engineering and Technology, Nungambakkam		Dr. M. Prabha, Assistant Professor, Department of ECE, Vel Tech Dr. Rangarajan Dr. Sakunthala R & D Institute of Science & Technology, Avadi, Chennai Group Discussions: Mr. P. Mahimai Don Bosco Assistant Professor Department of ECE, Loyola-ICAM College of Engineering and Technology, Nungambakkam		Test Mr. S. Robert Rajkumar Assistant Professor Department of ECE, Loyola-ICAM College of Engineering and Technology, Nungambakkam		Valedictory function The Principal Loyola-ICAM College of Engineering and Technology, Nungambakkam

Co-ordinator(s)

Ms.L.J.Jenifer Suriya, AP & Head / ECE

Dr.R.Umamaheswari, Associate Professor / ECE