



AICTE Sponsored STTP
Hands-on Project-Based Approach for 5G Design and Development Using MATLAB
Organized by
Department of Electronics and Communication Engineering
Kakatiya Institute of Technology and Science, Warangal – 506015 (TS)
(An Autonomous Institute under Kakatiya University, Warangal)
(Accredited by NAAC with 'A' Grade)



Phase-I : 02-07 November, 2020

Schedule

Date & Day	Session-I 10.00 am to 12.00 noon	Session-II 2.00pm to 4.00pm
02.11.2020 MONDAY	Inauguration: 10.00am – 10.15 am Single User Massive MIMO for 5G Chief Guest: Dr. K. Vasudevan, IIT Kanpur 10.15am – 12.00 am Expert Lecture-1 by Chief Guest	Lab Session: Hands on usage of SP Toolbox of MATLAB Sri. J. Prem kumar Sr. Application engineer Capricott Tech.Hyd
03.11. 2020 TUESDAY	Sparse Signal Processing for 5G Expert Lecture-2 Dr. Kishore Kumar, NIT Warangal	Lab Session: Hands on usage of Comm. Toolbox of MATLAB Sri. J. Prem kumar Sr. Application engineer Capricott Tech.Hyd
04.11.2020 WEDNESDAY	Understanding OFDM Expert Lecture-3 Internal Faculty-2: Dr. V. Vineel	Lab Session: OFDM System Design in MATLAB B. Narsimha/Dr. V. Vineel
05.11.2020 THURSDAY	mmWave for 5G Expert Lecture-4 Dr. Aniruddha Chandra, NIT Durgapur	Lab Session: MIMO OFDM & Study of PAPR and Channel effects B. Narsimha/G. Kranthi Kumar
06.11.2020 FRIDAY	5G New Radio Expert Lecture-5 Internal Faculty-2: Dr. M. Raju	Lab Session: 5G Waveforms: FBMC, UFMC and F-OFDM etc. B. Narsimha/D. Venu
07.11.2020 SATURDAY	Importance of OFDM for 5G and How to Teach it to UG/ PG students Expert Lecture-6 Prof. Adithya Jagannatham, IIT Kanpur	Energy efficient resource allocation for 5G cellular networks Expert Lecture-7 Dr. Abhinav, IIT Hyderabad

Comprehensive Exam: 4.00pm - 5.00 pm on 07.11.2020.

Valedictory: 5.00pm - 5.30pm on 07.11.2020.