



NATIONAL INSTITUTE OF TECHNOLOGY, WARANGAL – 506 004

DEPARTMENT OF ECE

6 Days FDP on Advanced Antenna Pattern Synthesis and Beamforming with Computational Intelligence

12th- 17th Nov, 2019

Lectures Schedule

***Lunch Break: 1PM -2PM, *Tea Break: 10.55-11.05AM/3.55-4.05PM**

Date	Morning Session (9AM-10.55PM)	Morning Session (11.05AM-1PM)	Afternoon Session (2PM-3.55PM)	Afternoon Session (4.05PM-5PM)
Day 1	Registration @9 AM and Inauguration at 10AM	Basics of electromagnetics and antenna theory	Basics of planar antennas	Introduction to advanced antenna arrays
Day 2	Introduction to Evolutionary Algorithms	MATLAB coding for antenna arrays and Evolutionary algorithms	Hands-on session on Antenna arrays design using MATLAB	Hands-on session on Evolutionary Algorithms coding using MATLAB
Day 3	Reconfigurable antennas	Multiple beam and beamforming antennas	Demonstration of HFSS	Hands-on session on Antenna design
Day 4	Artificial Neural Network for antenna array pattern synthesis	Fault Diagnosis of Antenna Arrays	Hands-on session on Evolutionary Algorithms using MATLAB-II	Hands-on session on reconfigurable antenna design
Day 5	MIMO Antennas for 5G Communication	Antenna for IOT	Miniaturization and thinning in antenna arrays	Hands-on session on thinning and fault detection
Day 6	Practical antenna measurements	Practical antenna measurements	Skill test and exam	Valedictory