

Programme schedule

Day	Date	11 a.m to 1 p.m	2 p.m to 4 p.m
		Topics	Topics
Monday	6/9/2021	OFDM-1/5G Architecture	A bird's eye view on statistical estimation theory for wireless communication systems
Tuesday	7/9/2021	Enabling Technologies for 5G	5G/6G wireless systems and a few research challenges
Wednesday	8/9/2021	5G	Diversity and combining Techniques- Performance Tradeoff
Thursday	9/9/2021	MAC layer	Machine Learning-1
Friday	10/9/2021	Holiday	Holiday
Saturday	11/9/2021	Throughput prediction in next generation cellular networks using ML	Throughput prediction in next generation cellular networks using ML
Sunday	12/9/2021	Machine Learning-2	Machine Learning-3
Monday	13/9/2021	mm wave front-end and component design	OFDM-2
Tuesday	14/9/2021	Modeling Communication Systems with MATLAB & Simulink	Software Defined Networks
Wednesday	15/9/2021	Design and Simulate Complex Wireless Systems with MATLAB & Simulink	Massive MIMO and Algorithms
Thursday	16/9/2021	Massive MIMO for 5G	Massive MIMO and Algorithms

List of resource persons scheduled

1.	Prof. Raghunadh MV	NITW	7.	Prof. Basabdaata Palith	IEST, Shibpur
2.	Prof. Pradhan HS	NITW	8.	Prof. Arun Kumar G	NITW
3.	Prof. Sameer	NIT, Calicut	9.	Prof. Praful P. Pai and team	Mathworks
4.	Prof. Preetham Kumar	IIT, Patna	10.	Prof. Manoj BS	IIST, Thiruvananthapuram
5.	Rajarshi Mahapatra	IIT, Naya Raipur	11.	Prof. Vimal Bhatia	IIT Indore
6.	Prof. Ravi K Kodali	NITW			



**G.NARAYANAMMA INSTITUTE OF TECHNOLOGY & SCIENCE (For Women)
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Shaikpet, Hyderabad – 500104

Department: Electronics and Telematics Engineering

2021-22

REPORT

Recent and Emerging Trends in Wireless Communications:4G and 5G Technologies

Resource person: Prof. Raghunadh M.V.

Date of program: 06-09-2021 to 16-09-2021

I M. Vijaya Lakshmi, Asst.prof, ETE, attended the FDP “Recent and Emerging Trends in Wireless Communications:4G and 5G Technologies” held at GNITS ,Hyderabad.I have learned the following concepts. Evolution of cellular Communication Standards 1G- 5G, Diversity and Combining Techniques and Performance trade-off, Models for Wireless communication, 5G/6G systems and research challenges, Device-to-Device code for 5G wireless communications, Transmission and Design Techniques for 5G,spectrum seassing and Resource Allocation for Wireless communications,Software Defined network,MIMO&5G, Realization of microwave and millimeter wave Devices for 5G wireless communications, Machine Leraing Applications.Thesee are helpful for me to guide project works.

Signature of the Faculty member


M. Vijaya Lakshmi, Asst Professor, ETE


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