



Short Term Course on
**5G Wireless Communication Networks: Fundamentals and
Implementation Issues**
July 10-15, 2017

Organized by:
Electronics and Communication Engineering Department
National Institute of Technology, Kurukshetra-136119

Patron:

Dr. Satish Kumar
Director

Co-Patron:

Dr. Vikas Mittal
Head of Department (ECE)

Convener:

Prof. Brahmjit Singh
(Dean R&C)

Coordinators:

Dr. Poonam Jindal
Dr. Ritu Garg

Co-Coordinator:

Mr. Mohit Dua
Mr. Pankaj Verma

Important dates:

Course dates: 10-15 July 2017
Last date for registration: 28 June, 2017
Notification of selection: 30 June, 2017

Registration form along with
course fee should be sent to:

Dr. Poonam Jindal

Assistant Professor
NIT Kurukshetra-136119
Cell phone: 9466620527

Email us at:

poonamjindal81@nitkkr.ac.in
ritu.59@gmail.com

For any queries, you may
contact us:

Poonam Jindal: 9466620527
Ritu Garg: 9896114469
Pankaj Verma: 8295577722
Mohit Dua: 9466588448

About the course:

There has been phenomenal growth of data traffic over the years along with ever increasing data rate requirements. A number of cutting edge techniques are being developed to meet the demand of enhanced network capacity. This demand has stimulated a lot of interest among academia and industry to propose solutions for increasing the spectrum efficiency and spectrum utilization. The Fifth Generation (5G) wireless systems, projected as the promising technology to meet the demand of higher data rate and greater traffic volume is expected to be deployed by 2020. It aims to offer seamless coverage, connectivity, and high quality of service between heterogeneous devices and under diverse scenarios such as high mobility.

This course introduces various promising technologies for 5G wireless communication systems including massive MIMO, millimeter wave communications, cognitive radio in 5G, D2D communications, 5G in IoT, and security challenges in 5G networks. The course is especially intended to provide engineers, faculty members of engineering colleges, and graduate students pursuing Ph.D. in communications and networking, with an in-depth understanding of theoretical concepts, features, and characteristics along with case studies in simulated scenarios. The course will cover highlights of the open research problems and probable directions in different domains of 5G communication networks. The course contents are designed with due emphasis on the laboratory sessions utilizing hardware kits, LabView and MATLAB platforms.

Target audience:

- Faculty of engineering colleges
- Graduate students pursuing research in related areas
- Industry professionals/personnel/scientists working in public/private/Govt. organizations

Registration fee: Rs.3,000/- per person. The fee includes refreshment, breakfast, lunch, & dinner for six days, course kit and lecture notes. Accommodation on request may be provided in hostel/guest house on nominal payment basis subject to the availability. The registration form complete in all respect accompanied by demand draft of requisite amount should reach the course coordinator latest by 28 June 2017.

For more details and registration information, visit the website

www.nitkkr.ac.in

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National Institute of Technology, Kurukshetra-136119

Name (Block Letters): M/F.....

Designation:

Institution/Organization:.....

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Experience:.....

Educational Qualifications: (Degree):..... Specialization:.....

Mailing address:.....

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Telephone:.....

Email:.....

Accommodation required (Yes/No):.....

Registration fee details:

Bank draft in favour of Director, National Institute of Technology, Kurukshetra, payable
at Kurukshetra

Draft No.....Amount.....

Issuing bank.....

Date:

Signature

Place: