

Workshop – 5G Networks (3 days)

Date	Time	Topic
Day 1	09.00AM - 10.00 AM	Reporting
	09.30 AM - 10.00 AM	Inauguration
	10.00 AM – 10.15 AM	Tea Break
	10.15 AM - 12.00 PM	5G – Introduction, Driving factors <ul style="list-style-type: none"> • Historical trend of wireless communications • 5G Roadmap • 5G Architecture
	12.00 PM - 01.00 PM	Talk on 5G by “Prof. Ratnajit Bhattacharjee, Department of EEE, IIT Guwahati.”
	01.00PM - 02.00PM	Lunch
	02.00PM - 03.30PM	5G Data Network <ul style="list-style-type: none"> • IOT and context awareness • Re-configuring Network and Virtualization support • Mobility • Quality of Service Control
	03.30PM - 03.45PM	Tea Break
	03.45PM - 05.30PM	5G – Small cells...part 1 <ul style="list-style-type: none"> • Smalls cell – Introduction • Multi antenna Techniques

Day 2	09.30AM - 11.00AM	5G – Small cells...part 2 <ul style="list-style-type: none"> • Mobile Data demand vs capacity • Small cell challenges
	11.00 AM - 11.15 AM	Tea Break
	11.15 AM - 01.00 PM	Next Generation Networks <ul style="list-style-type: none"> • Cooperative Diversity, Relaying Strategies • Performance Evaluation
	01.00PM - 02.00PM	Lunch
	02.00PM - 03.30PM	Mobile Clouds <ul style="list-style-type: none"> • Mobile cloud – Introduction • Mobile cloud enablers
	03.30PM - 03.45PM	Tea Break
	03.45PM - 05.30PM	5G – Cognitive radios <ul style="list-style-type: none"> • Cognitive Radio – Introduction • Spectrum Optimization • Carrier aggregation • Energy efficiency

Day 3	09.30AM - 11.00AM	5G – Wireless Spectrum Optimisation <ul style="list-style-type: none"> • Spectrum Management • White Space Technology and its Applications
	11.00 AM - 11.15 AM	Tea Break
	11.15 AM - 01.00 PM	5G – Broadcast, Broadband <ul style="list-style-type: none"> • BC-BB convergence • BC-BB Architecture
	01.00PM - 02.00PM	Lunch
	02.00PM - 03.30PM	5G – Security <ul style="list-style-type: none"> • Security issues, Challenges in UE, Access / Core Networks and PDNs
	03.30PM - 03.45PM	Tea Break
	03.45PM - 05.00PM	5G – SON <ul style="list-style-type: none"> • Need for SON • SON Architecture
	05.00PM – 05.30PM	Workshop – Conclusion Feedback