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Course Syllabus: 5G Wireless Systems & Mobiles

Batch Name: 5G Wireless Systems & Mobiles

Course Start: 1st of Every Month

Eligibility: 12th

Course Duration: 180 Hours

Courses / Modules Paper

Module 1

Paper 1	Paper 2	Paper 3	Paper 4
Mobile Communication	GSM- System Architecture	Computer Network	Database & Transactional Models

Paper 1: Mobile Communication

1.1 Introduction to Mobile Communication
1.2 Mobile Computing, Mobile Computing Architecture
1.3 Mobile devices, Mobile System Network
1.4 Data Dissemination, Mobility Management
1.5 Security Cellular Networks and Frequency Reuse, Mobile Smartphone, Smart Mobiles, and Systems Handheld Pocket Computers, Handheld Devices, Smart Systems, Limitations of Mobile Devices Automotive Systems

Paper 3: Computer Network

3.1 IP and Mobile IP Network Layers
3.2 Packet Delivery and Handover Management Location Management
3.3 Ipsec Conventional TCP/IP Transport Layer Protocols
3.4 Indirect TCP
3.5 Snooping TCP, Mobile TCP, other methods of MobileTCP-layer Transmission
3.6 TCP over 2.5G/ 3G- Mobile networks

Paper 2: GSM- System Architecture

2.1 GSM- Services with System Architecture
2.2 Radio interfaces of GSM
2.3 GSM Localisation Protocols
2.4 Call Handling & Security, New Data Services
2.5 Modulation, Multiplexing, Controlling the Medium Access Spread Spectrum, Frequency Hoping Spread Spectrum (FHSS)
2.6 Coding Methods and Code Division Multiple Access
2.7 IMT-2000 3G Wireless Communication standards & WCDMA 3G Dispatches norms
2.8 Broadband Wireless Access and 4G Networks
2.9 Mobile Satellite and Communication Networks

Paper 4: Database & Transactional Models

4.1 Data Organisation & Database Transactional Models- ACID Rules and Query Processing Data Recovery Process
4.2 Hoarding Techniques of Database
4.3 Data Catching and Client- Server Computing for Mobile Computing & Adaptation
4.4 Adaptation software for Mobile Computing
4.5 Power-Aware Mobile Computing and Context- aware Mobile Computing