

Syllabus		
Unit No	Contents	Mapped CO
I	Ad Hoc Wireless Networks: Introduction-Cellular and Ad Hoc Wireless Networks, Applications of Ad Hoc Wireless Networks, Issues in Ad Hoc Wireless Networks- Medium Access Scheme, Routing, Multicasting, Transport Layer Protocols, Pricing Scheme, Quality of Service Provisioning, Ad Hoc Wireless Internet.	CO1
II	MAC Protocols For Ad Hoc Wireless Networks – Design Goals of A Mac Protocol For Ad Hoc Wireless Networks, Classifications of MAC protocols, Contention-Based Protocols- MACAW: A Media Access Protocol for Wireless LANs, Floor Acquisition Multiple Access Protocols, Contention-Based Protocols With Reservation Mechanisms-Distributed Packet Reservation Multiple Access Protocol, Collision Avoidance Time Allocation Protocol.	CO1 CO2
III	Routing Protocols: Issues In Designing A Routing Protocol For Ad Hoc Wireless Networks, Classifications of Routing Protocols, Table-Driven Routing Protocols-Destination Sequenced Distance-Vector Routing Protocol, Wireless Routing Protocol, On-Demand Routing Protocols-Dynamic Source Routing Protocol, Ad Hoc On-Demand Distance Vector Routing Protocol.	CO1 CO3
IV	Multicast Routing In Ad Hoc Wireless Networks: Issues in designing multicast routing protocols, Classification of Multicast Routing Protocols, Tree-Based Multicast Routing Protocols-Bandwidth-Efficient Multicast Routing Protocol, Multicast Routing Protocol Based on Zone Routing, Mesh-Based Multicast Routing Protocols-On-Demand Multicast Routing Protocol, Dynamic Core-Based Multicast Routing Protocol.	CO1 CO3
V	Transport Layer And Security Protocols For Ad Hoc Wireless Networks: Issues In Designing A Transport Layer Protocol For Ad Hoc Wireless Networks, Design Goals of A Transport Layer Protocol For Ad Hoc Wireless Networks, Classification of Transport Layer Solutions, Network Security Requirements, Issues and Challenges in Security Provisioning, Network Security Attacks-Network Layer Attacks.	CO1 CO4

Learning Resources
Text Books
1. C.Siva Ram Murthy, B.S. Manoj, “Ad hoc wireless networks-Architectures and protocols” Pearson Education, 2014
References
1. Stefano Basagni, Marco Conti, “Mobile ad hoc networking”, Wiley inter science 2004 2. Charles Kadushin , Understanding Social Networks: Theories, Concepts, and Findings
E- Resources and other Digital Material
1. https://www.coursera.org/learn/social-network-analysis 2. https://onlinecourses.nptel.ac.in/noc20_cs78/