| IV YEAR SEM-II B.Tech CSE | ELECTIVE | L | T | Р | С |
|---------------------------|-----------------------|---|---|---|---|
| | MOBILE ADHOC NETWORKS | | | | |
| CODE: CS4604 | | 2 | 2 | 0 | 4 |

UNIT I: INTRODUCTION

Introduction to adhoc networks – definition, characteristics features, applications. Charectristics of Wireless channel, Adhoc Mobility Models:- Indoor and out doormodels.

UNIT II: MEDIUM ACCESS PROTOCOLS

Protocols: design issues, goals and classification. Contention based protocols- with reservation, scheduling algorithms, protocols using directional antennas.

UNIT III: NETWORK PROTOCOLS

Routing Protocols: Design issues, goals and classification. Proactive Vs reactive routing, Unicast routing algorithms, Multicast routing algorithms,

UNIT IV: ALGORITHMS

hybrid routing algorithm, Energyaware routing algorithm, Hierarchical Routing, QoS aware routing.

UNIT V: END-END DELIVERY AND SECURITY

Transport layer:

Issues in designig- Transport layer classification, adhoc transportprotocols. Security issues in adhoc networks: issues and challenges, network securityattacks, secure routing protocols.

UNIT VI: CROSS LAYER DESIGN AND INTEGRATIONOF ADHOC FOR 4G

Cross

layer Design: Need for cross layer design, cross layer optimization, parameteroptimization techniques, Cross layer cautionary prespective. Intergration of adhoc withMobile IP networks.