

SSN COLLEGE OF ENGINEERING
KALAVAKKAM-603110
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

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|---------------------------|--------------------------|
| Staff Incharge | Ms.Beulah A. |
| Batch | 2014 - 2018 |
| Academic Year | 2016 - 2017 |
| Class | VI Sem - CSE - B Section |
| Subject | Mobile Computing |
| Subject Code | IT6601 |
| Teaching Methodology/Aids | Black Board,Chalk /OHP |

| S.No | Topic | Content Delivery Methods | Proposed hours | Actual hours |
|------------------------------|--|--------------------------|----------------|--------------|
| UNIT I - INTRODUCTION | | | | |
| 1 | Mobile Computing – Mobile Computing Vs wireless Networking | | 1 | |
| 2 | Mobile Computing Applications | | 1 | |
| 3 | Characteristics of Mobile computing | | 1 | |
| 4 | Structure of Mobile Computing Application | | 1 | |
| 5 | MAC Protocols – Wireless MAC Issues | | 2 | |
| 6 | Fixed Assignment Schemes | | 1 | |
| 7 | Random Assignment Schemes | | 1 | |
| 8 | Reservation Based Schemes | | 1 | |

Total hours for Unit 1 **9**

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|---|--------------------------------|--|---|--|
| UNIT II - MOBILE INTERNET PROTOCOL AND TRANSPORT LAYER | | | | |
| 9 | Overview of Mobile IP | | 1 | |
| 10 | Features of Mobile IP | | 1 | |
| 11 | Key Mechanism in Mobile IP | | 1 | |
| 12 | Route Optimization | | 1 | |
| 13 | Overview of TCP/IP | | 1 | |
| 14 | Architecture of TCP/IP | | 1 | |
| 15 | Adaptation of TCP Window | | 2 | |
| 16 | Improvement in TCP Performance | | 1 | |

Total hours for Unit 2 **9**

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|---|--|--|---|--|
| UNIT III MOBILE TELECOMMUNICATION SYSTEM | | | | |
| 17 | Global System for Mobile Communication (GSM) | | 3 | |
| 18 | General Packet Radio Service (GPRS) | | 3 | |
| 19 | Universal Mobile Telecommunication System (UMTS) | | 3 | |

Total hours for Unit 3 **9**

| UNIT IV - MOBILE AD-HOC NETWORKS | | | | |
|----------------------------------|--|---|---|--|
| 20 | Ad-Hoc Basic Concepts – Characteristics | | 1 | |
| 21 | Ad- Hoc Applications | S | 1 | |
| 22 | Design Issues | | 1 | |
| 23 | Routing – Essential of Traditional Routing Protocols | | 1 | |
| 24 | Popular Routing Protocols | | 2 | |
| 25 | Vehicular Ad Hoc networks (VANET) | | 1 | |
| 26 | MANET Vs VANET | | 1 | |
| 27 | Security | | 1 | |

Total hours for Unit 4 **9**

| UNIT V - MOBILE PLATFORMS AND APPLICATIONS | | | | |
|--|---|---|---|--|
| 28 | Mobile Device Operating Systems | | 1 | |
| 29 | Special Constrains & Requirements | S | 1 | |
| 30 | Commercial Mobile Operating Systems | S | 1 | |
| 31 | Software Development Kit: iOS, Android, BlackBerry, Windows Phone | | 2 | |
| 32 | MCommerce – Structure – Pros & Cons | S | 2 | |
| 33 | Mobile Payment System | | 1 | |
| 34 | Security Issues | | 1 | |

Total hours for Unit 5 **9**

Total hours **45**

Prepared by
(Beulah A.)

Reviewed By
(PAC Team)

Approved
(HOD-)

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| Deviation |
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