

**LESSON PLAN:**

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| Discipline:<br>IT            | Semester:<br>5th                                                                                           | Name of the Teaching Faculty:<br>Mrs. Saswati soumya sahuo                                          |
| Subject:<br>Mobile Computing | No. Of Days/per week class<br>allotted: 4 periods per week<br>( Tues, Wed, Thus & Fri - 01<br>period each) | Semester:<br>From Date:15-09-2022 To Date:22-12-2022<br>No. Of Week: 15                             |
| <b>WEEK</b>                  | <b>CLASS DAY</b>                                                                                           | <b>THEORY /PRACTICAL TOPICS</b>                                                                     |
| 1 <sup>st</sup>              | 15-09-2022                                                                                                 | Syllabus & Mission- Vision                                                                          |
|                              | 16-09-2022                                                                                                 | 1. Introduction to Wireless networks &<br>Mobile Computing<br>1.1 Networks<br>1.2 Wireless Networks |
| 2 <sup>nd</sup>              | 20-09-2022                                                                                                 | 1.3 Mobile Computing<br>1.4 Mobile Computing Characteristics<br>1.5 Application of Mobile Computing |
|                              | 21-09-2022                                                                                                 | 2. Introduction to Mobile Development<br>Framework<br>2.1 C/S architecture                          |
|                              | 22-09-2022                                                                                                 | 2.2 n-tier architecture                                                                             |
|                              | 23-09-2022                                                                                                 | 2.3 n-tier architecture and www<br>2.4 Peer-to Peer architecture                                    |
| 3 <sup>rd</sup>              | 27-09-2022                                                                                                 | 2.5 Mobile agent architecture<br><b>REVISION CUM ASSIGNMENT 1</b>                                   |
|                              | 28-09-2022                                                                                                 | 3. Wireless Transmission<br>3.1 Introduction                                                        |
|                              | 29-09-2022                                                                                                 | 3.2 Signals<br>3.3 Period Frequency and bandwidth                                                   |
|                              | 30-09-2022                                                                                                 | 3.4 Antennas<br>3.5 Signal Propagation                                                              |
| 4 <sup>th</sup>              | 03-10-2022 to 08-10-2022                                                                                   | <b>Puja Holidays</b>                                                                                |
| 5 <sup>th</sup>              | 11-10-2022                                                                                                 | <b>CLASS TEST 1</b>                                                                                 |
|                              | 12-10-2022                                                                                                 | 3.6 Multiplexing<br>3.7 Modulation                                                                  |
|                              | 13-10-2022                                                                                                 | 3.8 Spread Spectrum<br>3.9 Cellular System                                                          |
|                              | 14-10-2022                                                                                                 | 4. Medium Access Control<br>4.1 Introduction<br>4.2 Hidden/ Exposed Terminals                       |
| 6 <sup>th</sup>              | 18-10-2022                                                                                                 | 4.3 The basic Access Method<br>4.4 Near / Far Terminals                                             |
|                              | 19-10-2022                                                                                                 | 4.5 TDMA, FDMA                                                                                      |
|                              | 20-10-2022                                                                                                 | 4.5 CDMA, SDMA                                                                                      |
|                              | 21-10-2022                                                                                                 | 5. Wireless LANs<br>5.1 Wireless LAN and communication<br><b>REVISION CUM ASSIGNMENT 2</b>          |
| 7 <sup>th</sup>              | 25-10-2022                                                                                                 | 5.2 Infrared                                                                                        |

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|                  | 26-10-2022 | 5.3 Radio Frequency                                                                                                |
|                  | 27-10-2022 | 5.4 IR Advantages and Disadvantages                                                                                |
|                  |            | 5.5 RF Advantages and Disadvantages                                                                                |
|                  | 28-10-2022 | 5.6 Wireless Network Architecture Logical<br>5.7 Types of WLAN                                                     |
| 8 <sup>th</sup>  | 01-11-2022 | 5.8 IEEE 802.11                                                                                                    |
|                  | 02-11-2022 | 5.9 MAC layer<br>5.10 Security                                                                                     |
|                  | 03-11-2022 | 5.11 Synchronization<br>5.12 Power Management                                                                      |
|                  | 04-11-2022 | 5.13 Roaming<br>5.14 Bluetooth Overview                                                                            |
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| 9 <sup>th</sup>  | 09-11-2022 | <b>6. Ubiquitous Wireless Communication</b><br>6.1 Introduction<br>6.2 Scenario of Mobile Communication            |
|                  | 10-11-2022 | 6.3 Mobile Communication Generations 1G to 3G<br>6.4 3rd Generation Mobile Communication Network                   |
|                  | 11-11-2022 | <b>CLASS TEST 2</b>                                                                                                |
| 10 <sup>th</sup> | 15-11-2022 | <b>Internal Assessment Examination</b>                                                                             |
|                  | 16-11-2022 | <b>Internal Assessment Examination</b>                                                                             |
|                  | 17-11-2022 | <b>Internal Assessment Examination</b>                                                                             |
|                  | 18-11-2022 | <b>Internal Assessment Examination</b>                                                                             |
| 11 <sup>th</sup> | 22-11-2022 | 6.5 Universal Mobile telecommunication System (UMTS)<br><b>REVISION CUM ASSIGNMENT 3</b>                           |
|                  | 23-11-2022 | <b>7. Mobile IP</b><br>7.1 Overview<br>7.2 Working with mobile IP<br>7.3 Mobile IP Entities<br>7.4 Mobility Agents |
|                  | 24-11-2022 | 7.5 Components of Mobile IP<br>7.6 Mobile IPv6 Features<br>7.7 Mobile IPv6 Address Types                           |
|                  | 25-11-2022 | 7.8 Mobile IPv6 Address Scope<br>7.9 Mobile IP Operation                                                           |
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| 12 <sup>th</sup> | 29-11-2022 | <b>8. Mobile Computing</b><br>8.1 WWW architecture for Mobile computing<br>8.2 Need of WAP<br>8.3 Benefits of WAP  |
|                  | 30-11-2022 | 8.4 Examples of WAP<br>8.5 WAP- Architecture<br>8.6 WAP protocols                                                  |
|                  | 01-12-2022 | 8.7 WML<br>8.8 WAP Push architecture<br>8.9 Push-Pull based data acquisition                                       |
|                  | 02-12-2022 | 8.10 I-mode<br>8.11 WAP 2.x                                                                                        |
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| 13 <sup>th</sup> | 06-12-2022 | <b>9. Wireless Telecomm Networks</b>                             |
|                  |            | 9.1 GSM                                                          |
|                  | 07-12-2022 | 9.2 GPRS                                                         |
|                  | 08-12-2022 | 9.3 IS-95<br>9.4 CDMA-2000                                       |
|                  | 09-12-2022 | 9.5 W-CDMA                                                       |
| 14 <sup>th</sup> | 13-12-2022 | 9.6 Wireless Sensor Networks<br><b>REVISION CUM ASSIGNMENT 4</b> |
|                  | 14-12-2022 | <b>10. Messaging Services</b>                                    |
|                  | 15-12-2022 | 10.1 Short Message Services (SMS)                                |
|                  | 16-12-2022 | 10.2 Multimedia Message Services (MMS)<br><b>CLASS TEST 3</b>    |
| 15 <sup>th</sup> | 20-12-2022 | 10.3 Multimedia transmission over wireless                       |
|                  | 21-12-2022 | <b>Previous Year Questions Discussion</b>                        |
|                  | 22-12-2022 | <b>Doubt Clearing Class</b>                                      |
|                  |            |                                                                  |