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M-Scheme DETAILED SYLLABUS

35262 - MOBILE COMPUTING

UNIT -I Introduction to Mobile Computing, WiFi, Bluetooth

- 1.1 Introduction: Evolution of Mobile Computing Important terminologies Mobile computing functions Mobile computing Devices Networks: Wired, Wireless, Adhoc Comparison of wired and wireless mechanism Various types of wireless communication technologies used in Mobiles, Antennas
- 1.2 Architecture : Architecture of Mobile Computing 3- Tier Architecture Presentation (Tier-1), Application (Tier-2), Data (Tier 3)
- 1.3 Mobile computing through Telephony: Evolution through telephony
- 1.4 Wireless LAN: Introduction Applications of WLAN Infrared versus Radio transmission Features of WI-FI and WI-MAX Bluetooth : Introduction and application

UNIT-II Introduction to GSM , SMS ,GPRS , Mobile OS

- 2.1 Global System for Mobile Communication (GSM): Introduction GSM Architecture GSM Entities (Basics only) Introduction to CDMA
- 2.2 Short Message Service (SMS): Mobile computing over SMS Short Message Service Strength of SMS SMS Architecture Value added services through SMS VAS Examples
- 2.3 General Packet Radio Service (GPRS): Introduction GPRS Packet data Network
 : Applications for GPRS : Generic Applications, GPRS Specific Applications –
 Limitations of GPRS Features of 3G and 4G Data Service
- 2.4 Mobile Operating Systems: Evaluation of Mobile Operating System-Handset Manufactures and their Mobile OS- Mobile OS and their features. Linux Kernel based Mobile OSr

UNIT-III Introduction to ANDROID

3.1 ANDROID : Android Versions – Features of Android – Architecture of Android – Android Market – Android Runtime (Dalvik Virtual Machine)

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- 3.2 ANDROID SDK & ADT: Android SDK Android Development Tool (ADT) Installing and configuring Android Android Virtual Device (AVD)
- 3.3 ACTIVITIES & INTENTS: Understanding Activities Linking activities and indents Calling built-in applications using intents Fragments Displaying Notifications
- 3.4 User Interface : Views and Viewgroups Layouts Display Orientation Action Bar Listening for UI Notifications

UNIT-IV VIEWs

- 4.1 Basic Views: Textview, Button, Image Button, EditText, CheckBox, ToggleButton, RadioButton and RadioGroup Views, ProgressBar View, Auto Complete Text View
- 4.2 Advanced Views: Time Picker View and Date Picker View List Views Image View Menus Analog and Digital View Dialog Boxes
- 4.3 Displaying Pictures & Menus with Views: Image View Gallery View ImageSwitcher GridView Creating the Helper Methods Options Menu Context Menu
- 4.4 SMS, Phone: Sending SMS Receiving SMS Making phone call

UNIT V Location Based Service and SQLite

- 5.1 Location Based Services : Obtaining the Maps API Key- Displaying the Map Zoom Control Navigating to a specific location Adding Marker Geo Coding and reverse Geo coding
- 5.2 Content Provider : Sharing data view contacts Add contacts Modify contacts Delete Contacts
- 5.3 Storage : Store and Retire data's in Internal and External Storage SQLite Creating and using databases
- 5.4 Android Service : Consuming Web service using HTTP , downloading binary Data Downloading Text Content Accessing Web Service

TEXT BOOK

- 1. Beginning Android 4 Application Development Wei-Meng Lee Wiley India Edition
- 2. Android Apps for Absolute Beginners Jackson Apress