SIMATS
Saveetha Institute of Medical And Technical Sciences
(Declared as Deemed to be University under Section 3 of UGC Act 1956)

SIMATS ENGINEERING
Engineer to Excel

Course Name: Mobile Computing for Modern App Development

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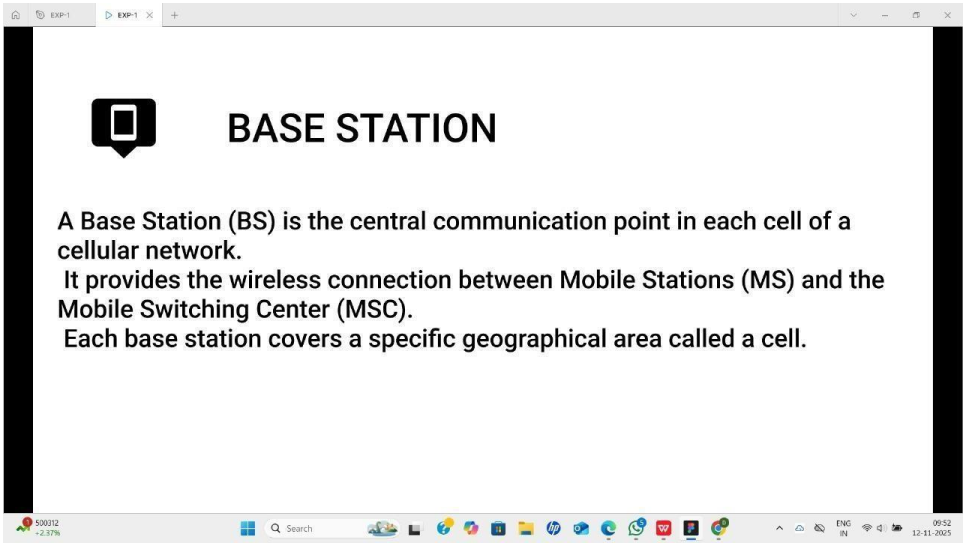
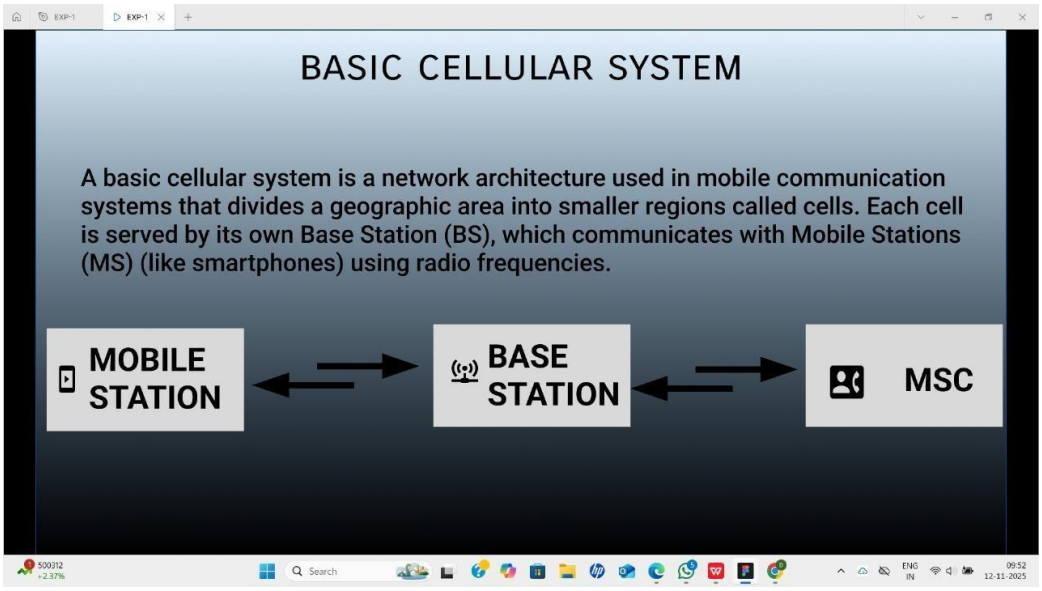
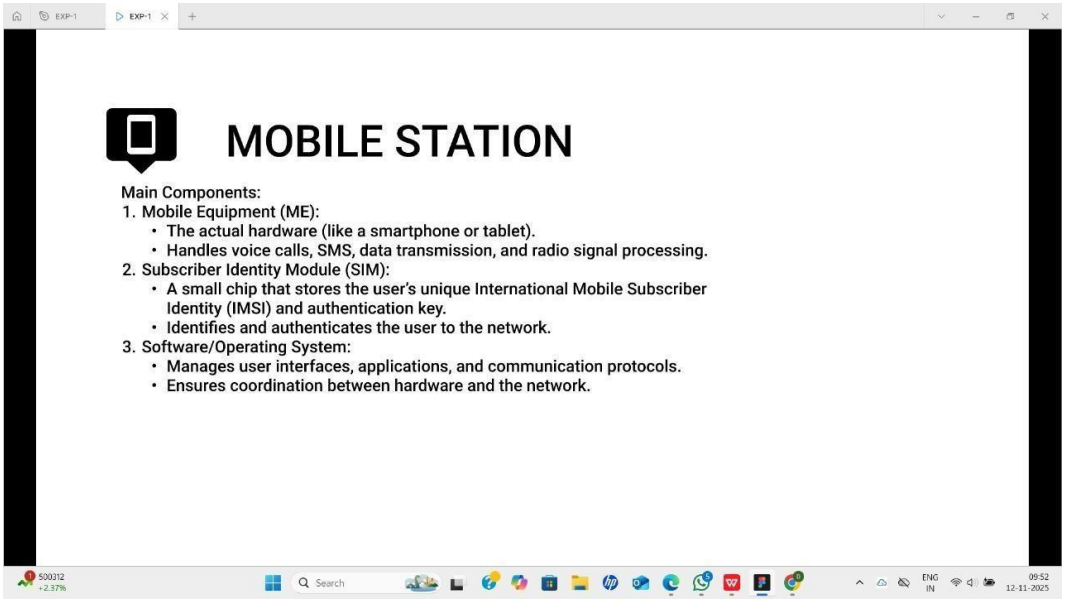
Course Code: CSA0306

Q: BASIC CELLULAR SYSTEM




BASIC CELLULAR SYSTEM
A basic cellular system is a network architecture used in mobile communication systems that divides a geographic area into smaller regions called cells. Each cell is served by its own Base Station (BS), which communicates with Mobile Stations (MS) (like smartphones) using radio frequencies.
MOBILE STATION
BASE STATION
MSC


MOBILE STATION
Main Components:
1. Mobile Equipment (ME):
• The actual hardware (like a smartphone or tablet).
• Handles voice calls, SMS, data transmission, and radio signal processing.
2. Subscriber Identity Module (SIM):
• A small chip that stores the user's unique International Mobile Subscriber Identity (IMSI) and authentication key.
• Identifies and authenticates the user to the network.
3. Software/Operating System:
• Manages user interfaces, applications, and communication protocols.
• Ensures coordination between hardware and the network.