



# SIMATS

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



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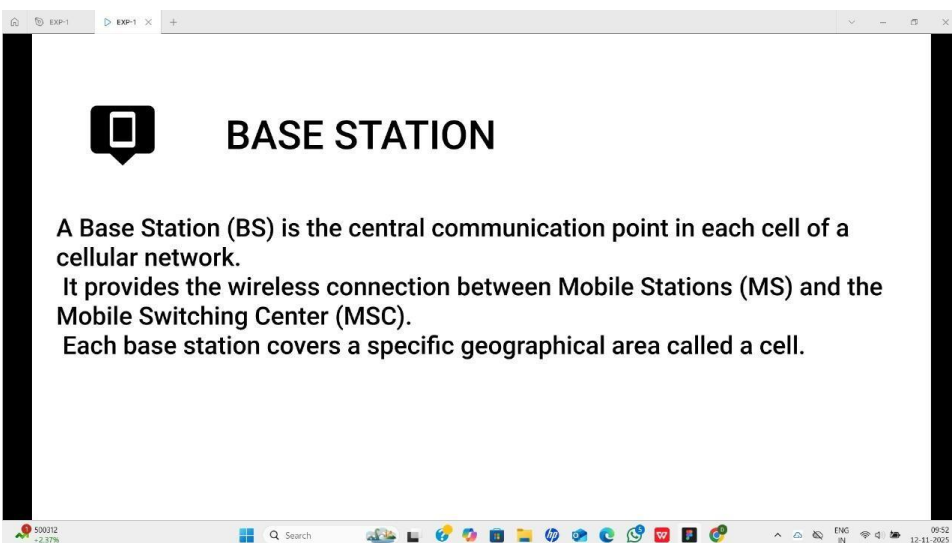
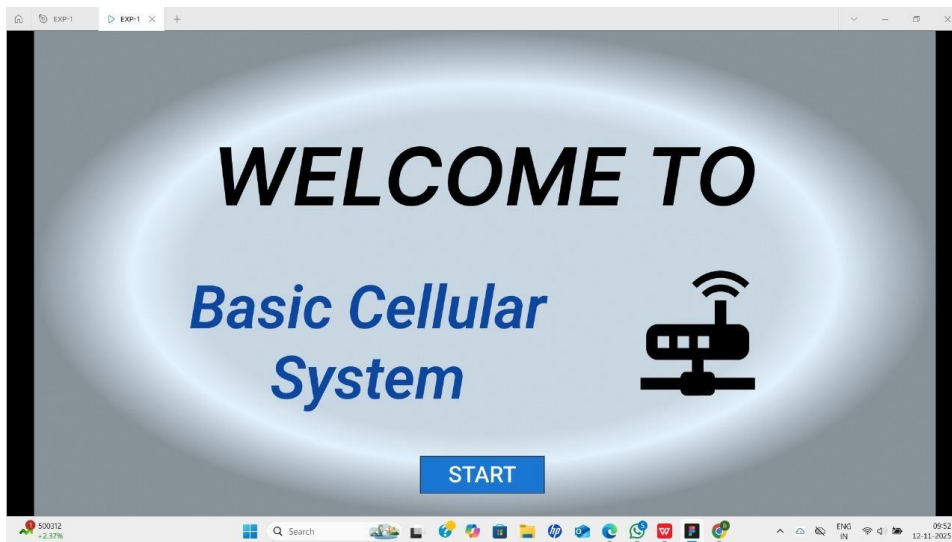
## ENGINEERING

**Course Name: Mobile Computing for Modern App Development**

**Name: Vignesh S(192421168)**

**Course Code: CSA0302**

**Q: BASIC CELLULAR SYSTEM**



EXP-1

# 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.

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graph LR; MS[MOBILE STATION] <--> BS[BASE STATION]; BS <--> MSC[MSC]
```

MOBILE STATION

BASE STATION

MSC

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EXP-1

# 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.

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