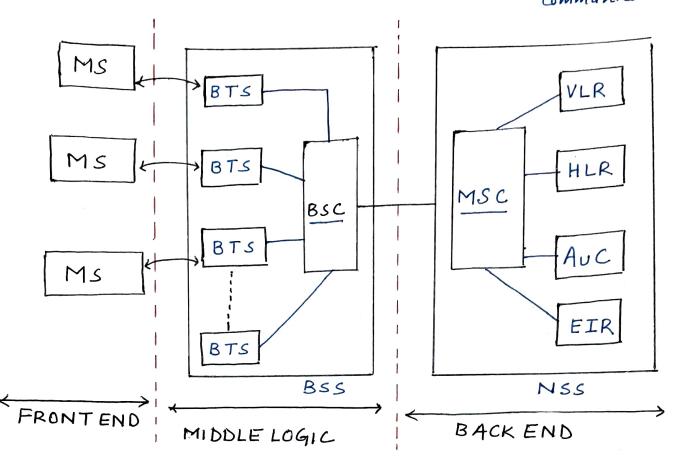
GSM Architectuse: - It stands for Global System for Mobile



1. Front End: - Ms stands for mobile stations. Mobile stations are nothing but mobile users.

- \* Ms: Mobile station
- \* BTS: Base transveceiver station
- \* B36: Base station Controller
- \* BSS: Base station subsystem
- \* MSC: Mobile & Witching Centre
- \* NSS: Network switching subsystem
- \* VLR: Visitor Location Register
- \* HLR: Home Location Register

- \* AUC: Authentication Centre
- \* EIR: Equipment

  Identify Register

- 2: Middle Logic: It includes BSS Which comprises of BTS & BSC.
- (a) BTS:- \* It is a Component of Bss.
  - \* It stands for base transpeceiver station Which transmits as well as seceives the signal.
  - \* BTS provides signal to our mobiles.
  - \* BTS & Ms are interfaced with each other.
- (b) B3C:- \* BSC stands for base station Controller.

  \* BSC is used to maintain, Cordinate & Control

all the BTS.

- \* If traffic is more on a particular BTs,

  then BSC diverts the traffic to some other BTs.

  to avoid congestion.
- \* BTS & BSC are interfaced with each other.
- 3. Back End: \* It includes NSS which comprises of

  MSC & Registers namely VLR, HLR, Auc &
  FIR
  - (a) MSC: + MSC stands for mobile switching Centre.

    + It is a Component of NSS

    + It is used to perform Call switching function.

    + Many BSC are Connected to MSC.

- (b) VLR:- \* It stonds for visitor location register.

  \* It is used to store the temporary
  information of user. If the user's device is not
  within the Coverage area of the same cell tower,
  the HLR provides information on the user's Current
  location.
- (E) HLR:- \* It stands for Home Location Register.

  \* It is used to store the permonent information

  4 the user like profile, location, subscription

  pack etc.
  - (d) AUC:- \* It stonds for Authentication Centre.

    \* It is a secured database Which has secret

    Key Which is used to authenticate the user.
  - (e) EIR:- It is used to store identity of equipment (IMFI)

    + It stands for Equipment Identity Register.

    + It stores the information of all Valid & invalid Phones.