



جامعة المستقبل  
AL MUSTAQBAL UNIVERSITY

*Department of Computer Engineering Techniques* (stage : 2)

Communications Foundations

---



**Class: 2<sup>th</sup>**

**Communications Foundations**

***Chapter two***

***Single sideband***

**By**

م. علي عدنان عبدالكاظم

**2023-2024**

Page 1 of 3



## Single sideband

### Object :

- Variant of AM is signal sideband (SSB)
  - Send only one sideband.
  - Eliminates other sideband and required.
- Advantages
  - Only half the bandwidth is required.
  - Less power is required.
- Dissadvantages
  - Suppressed carrier can't be used for synchronization purposes.

### -Tools :-

Computer by using **Matlab** program

The experiment is applied in the lab.

### • Steps...

- 1- Sine wave .~ 4
- 2- Product ....~ 2
- 3- Add .....~ 1
- 4- Scope .....~ 1



• Connect the chart :-

