# Circuits II practical project

#### By:

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**Tutorial**: T5 IET

## **Circuit Type:**

Non-inverting low pass filter

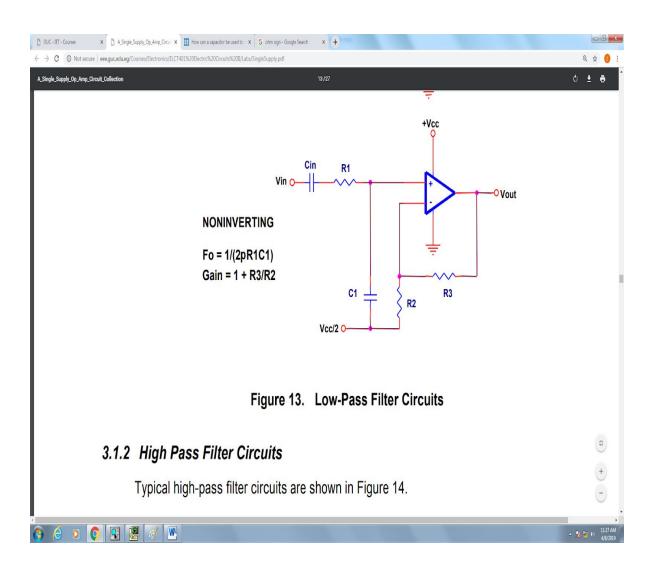
## Supervised by:

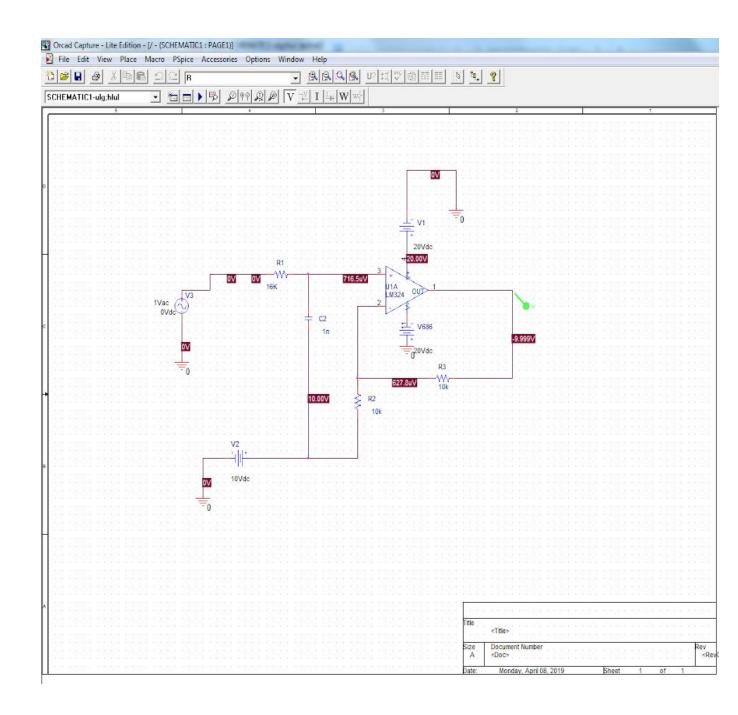
Nada Ayman

#### The components we used are:

- 1X Amplifier LM324
- \* 1X 1nF Capacitor
- \* 1X 16kΩ Resistor
- \* 2x 10kΩ Resistor
- \* 1X VAC
- \* 2X VDC (20V)
- \* 1X VDC (10V)

- **1-**We chose  $F_0$  = 10KHz & C=1nF Accordingly R=1/2π $F_0$ C≈ 16kΩ
- 2- We chose Gain A= 2
  Accordingly R2/R3=1
  R2/R3=1  $\rightarrow$  R2=R3=10kΩ





AT Fo -->  $V=Vm/\sqrt{2}$ 

