A picture containing text

Description automatically generated

Department Of electrical and computer Engineering

ENEE2103 CIRCUITS AND ELECTRONICS LABORATORY

Experiment No.5 Prelab

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Date: 4/12/2021

# Passive filters:

1. **First order circuits:**

Diagram, schematic

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3.



4.



5.



In decibels



Fc=1/2piRC

=1/2\*pi\*2.2k\*220n

=328.8

6.

P(Vc):



P(Vr):



1. **Second Order Fiters:**

Vr db amp



Vr db Phase



Band Pass Filter

magnitude of (Vc+VL) in decibels



phase of (Vc+VL) in decibels



Band Reject Filter

# Active filters:

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Vout amp



Vo phase



6. The filter type is: low pass filter

7. theoretically🡺

Fc=1/2piRC

=1/2\*pi\*2.2k\*220n

=328.8

Form the graph:



Almost the same