

LAB REPORT

Electronics Lab II (ELC 3910)

Experiment No.: 1

S. No:

1	2
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F. No:

2	0	E	L	B	0	8	4
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Name:

Y	U	S	U	F		A	H	M	E	D		K	H	A	N
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Object:

- (a) Plot the frequency response of RC circuit for diff values of resistance
- (b) Plot the transient for two different inputs, (b(i)) Sin
(b(ii)) Pulse

Software used: PSpice

Date of performing the experiment: 31/08/2022

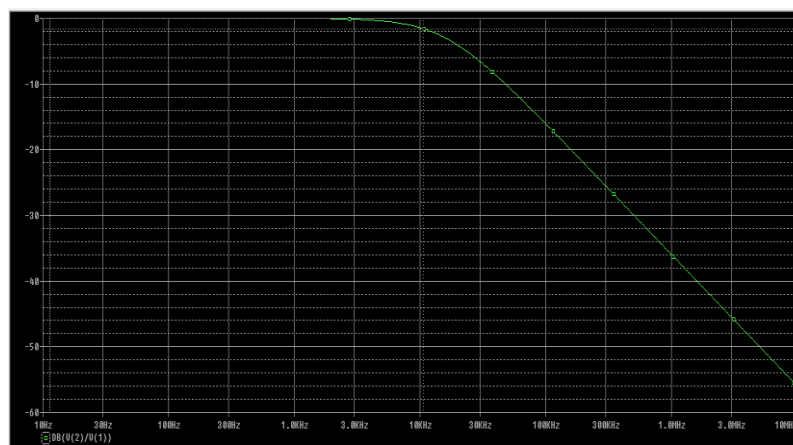
Date of report submission: 07/09/2022

Snippets of

I. Code for part (a)

```
* -----  
* AC analysis for RC circuit  
*  
Vin 1 0 AC 5v  
R 1 2 1k  
C 2 0 10nf  
.AC DEC 100 10Hz 10MegHz  
.probe  
.end  
* -----  
.
```

II. Plot for part (a)

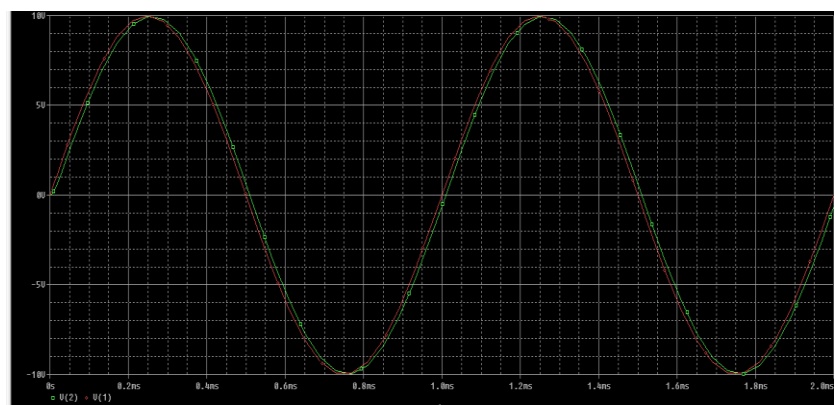


Snippets of

I. Code for part (b(i))

```
* -----  
* Sine wave transient analysis for RC circuit  
*  
Vin 1 0 sin(0 10v 1kHz)  
R 1 2 1k  
C 2 0 10nf  
.tran 10us 2ms  
.probe  
.end  
* -----
```

II. Plot for part (b(i))



Snippets of

I. Code for part (b(ii))

```
* -----  
* Square wave transient analysis for RC circuit  
  
*PULSE(V1 V2 TimeDelay TimeRise TimeFall PulseWidth PERiod)  
Vin 1 0 PULSE(-5v +5v 0 1ns 1ns 1ms 4ms)  
R 1 2 1k  
C 2 0 50nf  
.tran 10us 2ms  
.probe  
.end  
* -----
```

II. Plot for part (b(ii))

