\* Sensors Assignment #1

2019 11043

$$P = \frac{(3.548)^2}{2.2 \text{ K2}} = 5.7219 \text{ mW}$$

$$= \frac{(4 k 2) (2.2 k 2)}{(4 k 2) + (2.2 k 2)} = 1.41 a 4 k 2$$

O28- For 41 digit DVM, we can measure from 0-19999
on a 200 mu sceele, The DVM measure from 0-19999
so the smallest measure able change is 0.1 mu or
100 dv.

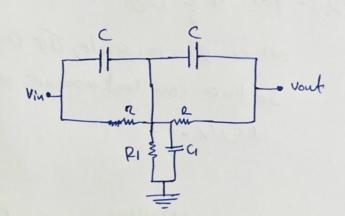
$$100 \text{ MV} = \frac{(120)(10)}{120+120} - \frac{\text{en } (10)}{120+129}$$

$$DRy = Ry - Ry$$

$$DRy = 120 - 114.9952$$

$$DRy = 0.0048$$

$$f_n = 6.785 f_c$$
  
 $240 = 0.785 f_c$   
 $f_c = 305.732 Hz$ 



## = ifwe pick c=0.0/1/

$$R_1 = \frac{TR}{10} = \frac{3.14 \times 52.057}{10} = \frac{16.3542 \times 2}{10}$$

$$C_{1} = \frac{10c}{T} = \frac{10c}{C_{10}} = \frac$$

\*fHi's the frequency will down 3 dB below then 1397. 19542

(a-) High pass frequency at 120 Hz by Rector 0.2

$$\left|\frac{V_{\text{out}}}{V_{\text{in}}}\right| = \frac{\left(\frac{1}{2}\right)^{2}}{\sqrt{1+\frac{(10^{6}1_{\text{FH}})^{2}}{1}}}$$

$$\left|\frac{V_{\text{out}}}{V_{\text{in}}}\right| = \frac{\left(\frac{1}{2}\right)^{2}}{\sqrt{1+\frac{(10^{6}1_{\text{FH}})^{2}}{1}}}$$

$$\sqrt{1+(120+\beta_L)^2} = \frac{600}{\beta_L}$$

$$1 + (120 + f_U) = \frac{600^2}{f_U^2}$$



$$P = 0.01, \quad R_{1} = 120 \text{ K}$$

$$P = \frac{R}{R} + \frac{R}{R}$$