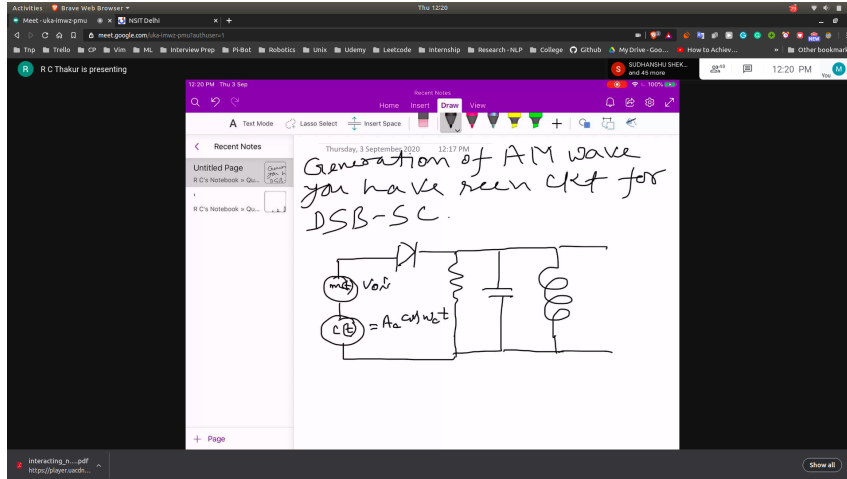
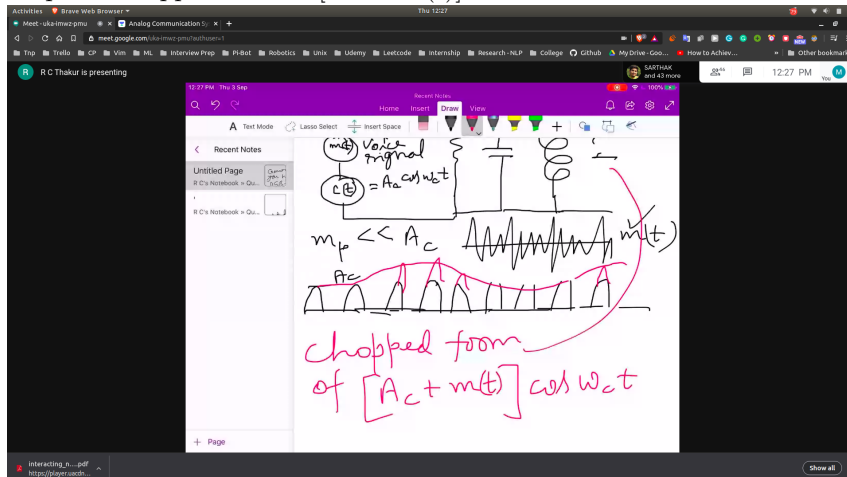


Generation of AM Wave

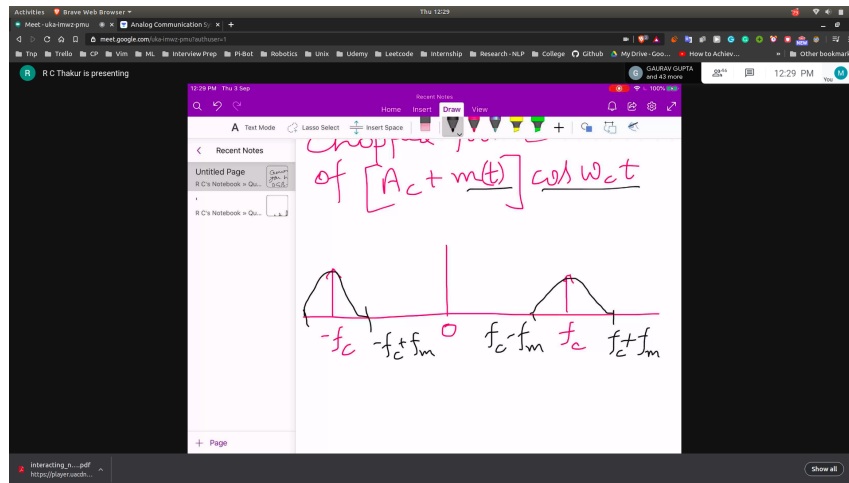
- In the circuit the $c(t) ==>$ carrier signal
- Voice signal $==>$ $m(t)$



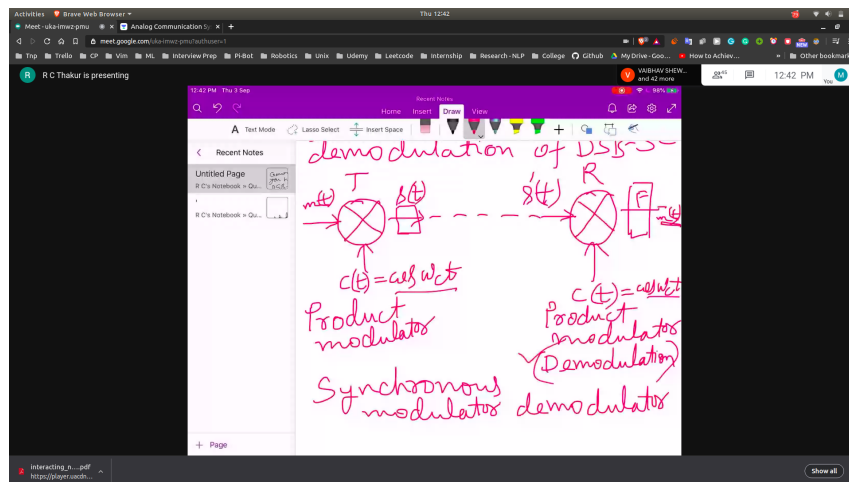
- output is chopped form of $[A_c + m(t)] \cos \omega_c t$



- output in the form in frequency



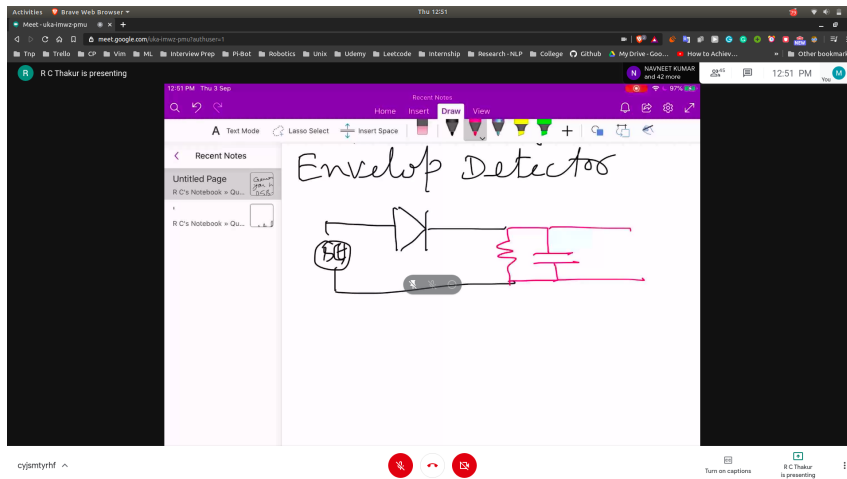
Demodulation of DSB-SC



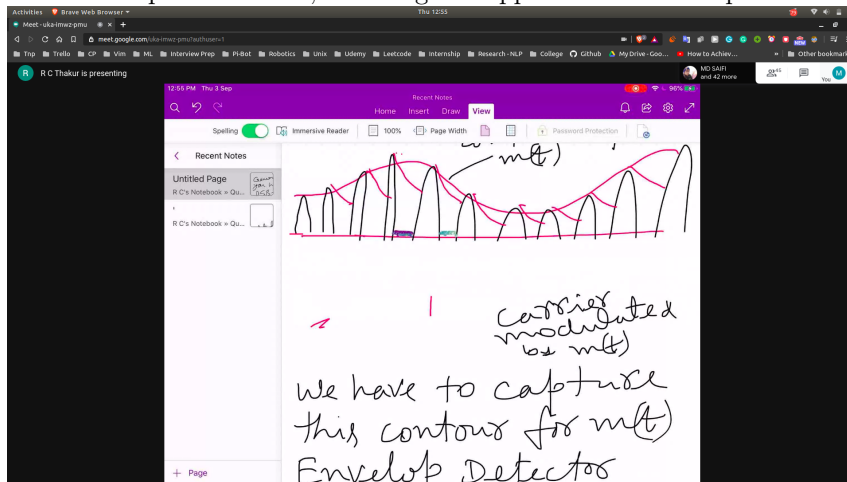
- in order to do demodulation , we have to capture the contour of $m(t)$
- **Called Envelop Detector**

Envelop Detector

- first we pass it though diode , then we will only get the positive half cycle
- then we can pass it though the RC filter



- so when we pass RC filter , we will get a ripple and the envelope



- Time constant condition for RC
 - $1/\omega_m \gg RC \gg 1/\omega_c$

Vedio for RC Filter

- here