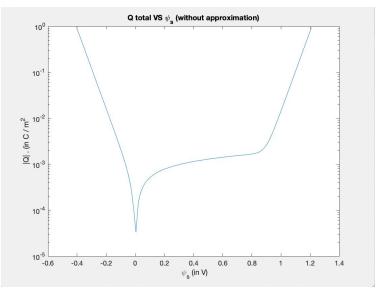
Physics of Transistors

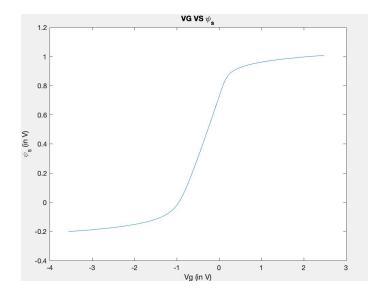
Devesh Kumar 16D070044

Assignment 1

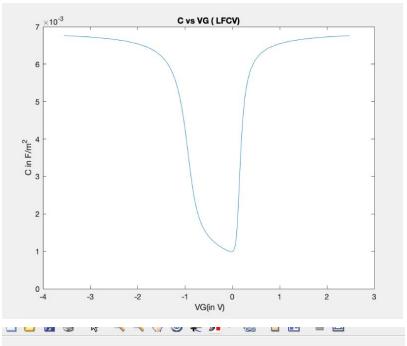
Q1

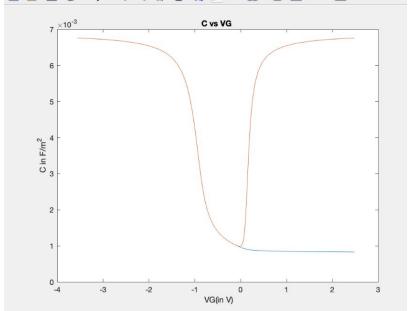


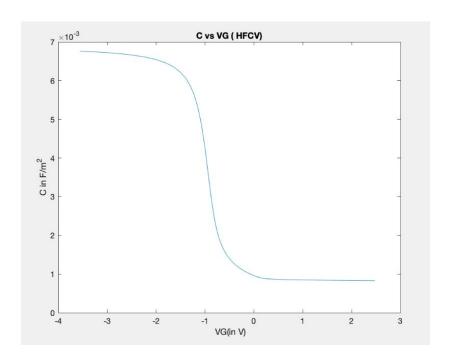
Q2



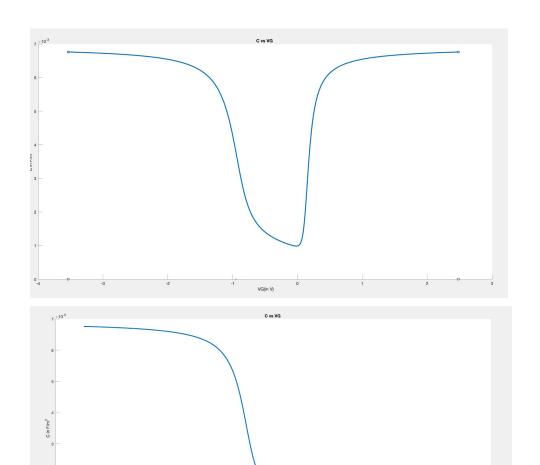
Q3	Manual	differentiation



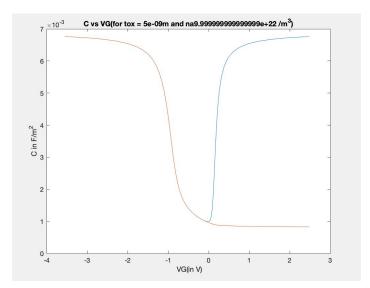


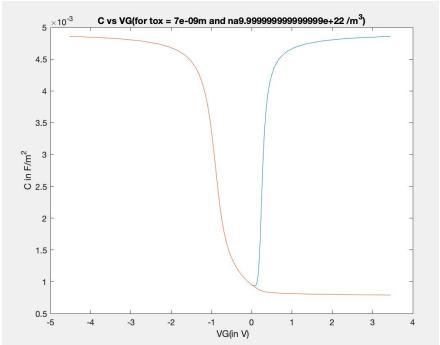


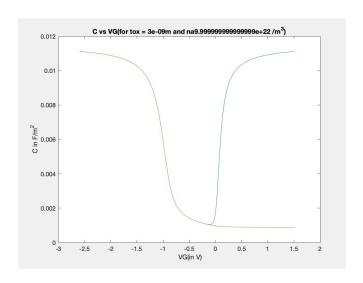
Numerical differentiation

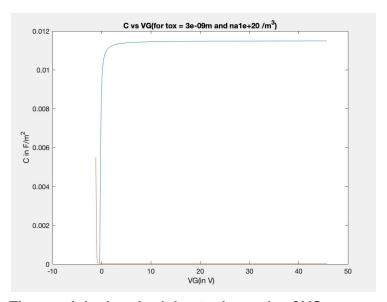


Q4

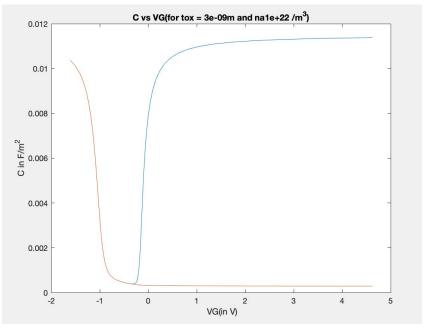


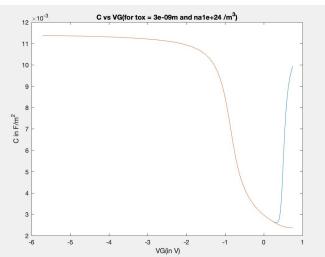


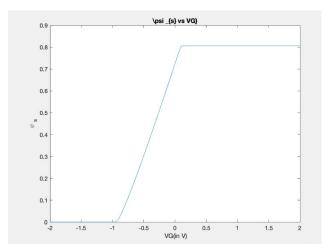


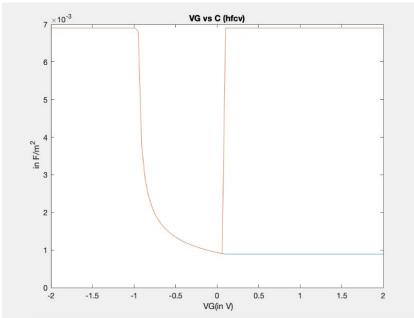


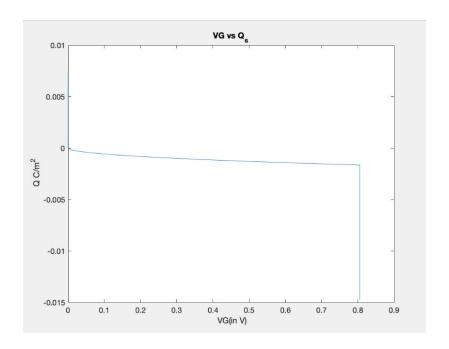
The graph looks wired due to the scale of VG



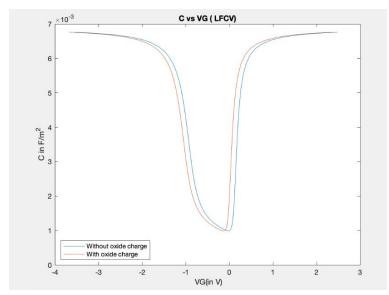


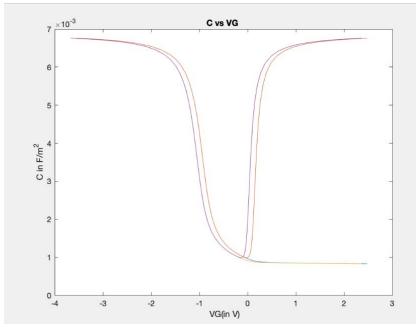


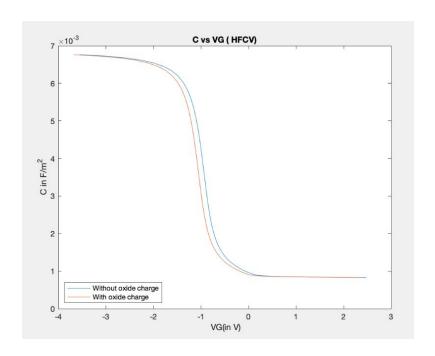


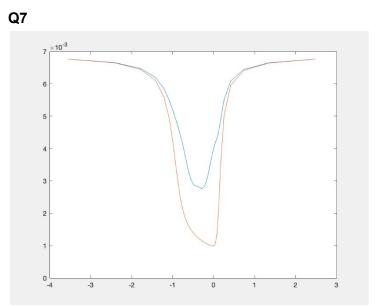


Q6









Red is the ideal case blue is with DIT
The dit model version taught does not apply for hFcv measurement