CORE COURSES

EE224: digital design

- Studied Combinational circuits- logic gates, kmaps, boolean algebra, propagation delay, shannon expansion theorem, reed-muller, faults
- Studied Sequential circuits- flip flops, latches, counters, state diagram& table of FSM(mealy, moore), pattern detector
- Studied Basics of cmos inverter logic

EE229:Signals and Systems

- Studied working of basic filters like notch filters, low pass/high pass filters, LTI systems, Fourier and Laplace transform, eigenvectors, Sampling & Shannon's criterion
- Studied Basics of interpolation&decimation,DFT,DTFT, FFT algorithm(decimation in time) for 2- radix

EE337:MICROPROCESSORS

- Studied various features like timers, interupts etc in understanding serial communication, I2C bus, serial peripheral interfaces, 4*4 keybooard scanning etc
- Learnt 8051,8086, MIPS languages

EE204: analog electronics • Learnt Basic network theory-thevenin& norton theorems, kirchoff's laws, diodes

- Learnt BJT, MOSFET- basics, as an amplifier
- Learnt Opamps
- Learnt Cascode amplifiers, differential amplifiers Learnt Basics of feedback

EE 238- power engineering II

• Studied induction machines, dc machines, basics of spwm inverter

ACADEMIC ACHIEVEMENTS

- Scored 99.46 percentile in JEE-Mains (out of 900,000+ students) 2019
- Achieved AIR 1332 in JEE advanced (out of 224,000+ students) 2019

SCHOLARSHIPS & AWARDS

- Awarded KVPY Fellowship with Rank 438 from more than 40,000 students
- Received NTSE scholarship for being in top 1000 students among more than 500,000 (2017)
- Secured state level top 1% percentile in National Standard Examination in Astronomy- 2016
- Secured state level top 1% percentile in National Standard Examination in Physics- 2017
- Secured international level 1rd rank in International talent hunt olympiad-2015
- Secured international level 3rd rank in International maths olympiad-2015
- Secured international level 3rd rank in International science olympiad-2015
- Secured 100 percentile in World genius examination twice-2015,2014
- Secured 100 percentile thrice in National genius search exam-2015,2014,2012
- Secured 1st rank in state level Sahodaya scholastic achievement test thrice-2015,2014,2013