ECE 270 : Embedded Logic Design ⇒ CO + DC

Password manager

Node MCU   SSD   Buttons   USB-A   BLE   Joystick
D1 mini   1306   (numpad)   breakout
           oled   board
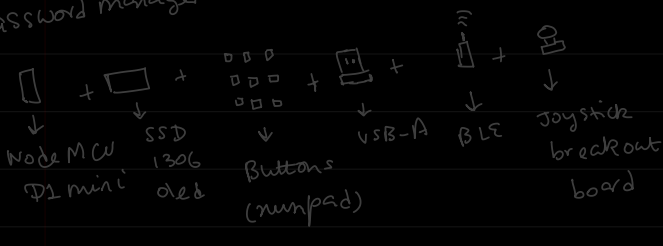
Resource for Quiz : hdlbits.01xz.net/wiki/Main_Page
Lab videos : youtube

Programming: 1st half → Verilog
              2nd half → Embedded C

Theory : FPGA and SOC

⇒ AVR ✓
arch used   Vivado 2019.1 (including SDK)
repository

* GRADES: mid sem   30 %
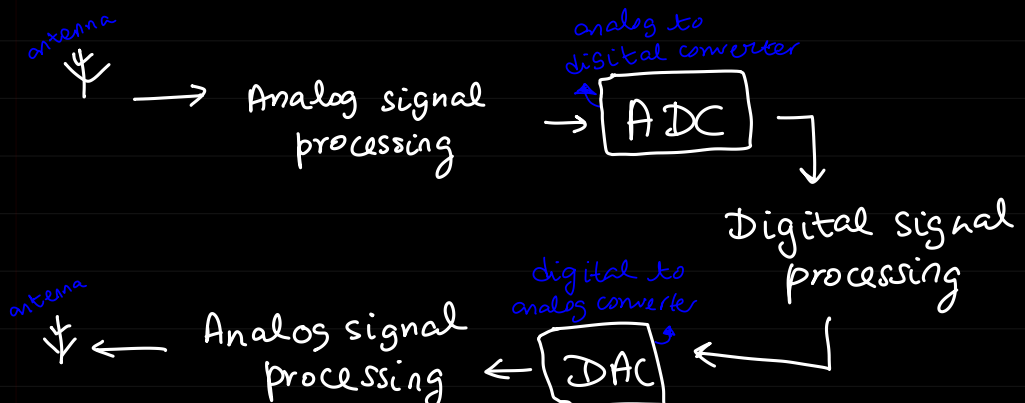   end sem   30 %
                 Surprise quiz 25 %
                 lab hw   15 %

* Which is faster : Analog vs digital ?

⇒ Depends on the use case

* No product is purely digital / analog ?

⇒ Analog is present in nature however digital
   can be processed easily and has more use cases.

antenna
Ψ → Analog signal   analog to
       processing   digital converter
                     → ADC
                              ↓
                         Digital signal
                            processing
antenna   digital to
Ψ ← Analog signal   analog converter
       processing ← DAC ←

HDL → Hardware Description language
   ↳ eg ⇒ Verilog