Lab Handout
BITS-Pilani, Hyderabad Campus: FIRST SEMESTER 2019-2020
INSTR F311 (Lab) – K-125: Electronic Instruments and Instrument Technology
Section-1: Wednesday, 11 am - 1pm, Section-2: Thursday, 3 - 5 pm

Instructors: Karumbaiah C N (H-225) and Ponnalagu (H-226)
T.As: Sarda Sharma , Samit Kumar Ghosh and Madhusudan B Kulkarni.
Lab Technician: K Venkateshwarlu, and Sreekanth Talloju

1. LABS

I.   Experiment 1 Study of effects of measuring instruments - *MULTISIM*
II.   Experiment 2 Electronic Multimeter - *MULTISIM*
III.   Experiment 3 Design of signal conditioning circuit *MULTISIM*
IV.   Experiment 4 Design of ADC and DAC - *MULTISIM*
V.   Experiment 5 Print a Y-Channel with Obstacles using the 3D Printer–*MEMS*
VI.   Experiment 6 Battery level indicator – *Arduino Uno*
VII.   Experiment 7 Seven segment display and LCD interfacing - *Arduino Uno*
VIII.   Experiment 8 Moisture sensor (*Arduino Uno*) and Wheatstone Bridge Measurement (*Trainer Kit*)
IX.   Experiment 9 Piezoelectric sensor and Thermistor (*Arduino Uno*)
X.   Experiment 10 Strain gauge and optical transducer (*Trainer Kit*)

2. Makeup Policy: Make-up for Lab (maximum 1 per student) will be given as per Institute policy for students with genuine reasons.