Department of Architecture



Building materials museum:

Knowledge of materials, specifications and properties of building like brick bond samples and models.



Carpentery Lab:

Knowledge related to timber and wood for construction.



Model making lab:

Advanced building modelling and design. Beginners were trained to build models of buildings.



3D printing lab:

Students were trained for making building via 3d modelling.



Construction Yard (brick model preparations)



Eco-design Lab and audio-visual room:

Model making and literature studies done in this room.



Students study about climate conditions through the instruments like cup type anemometer, lux meter, sound level meter, hygrometer, etc.

Department of Electrical Engineering



Basic electrical engineering lab:

Study of DC motor, tube light, iron, fan, ohm' law, superposition theorem, max. power transfer theorem, DC shunt motor, etc.



Power system lab: for the study of digital multi-meter, motorised oil testing set, function generator, three phase transformer.



Power electronics lab: for the study of VI Characterizations for SCR, IGBT, TRAIC L, DIAC L and MOSFET.



Advance electric drive lab for induction motor drive, synchronous motor, switched reluctance motor drive, etc.



Switchgear and protection lab for the study of over current relay, earth fault relay, over voltage and under voltage relay, universal relay, insulation and continuity test, and simulation of relay characteristics.



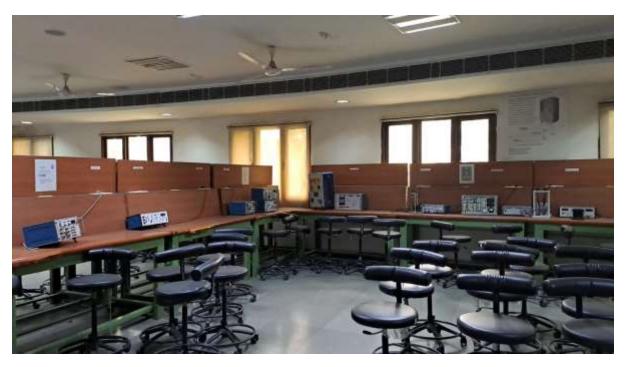
Measurement and instruments lab for the study of resistance, self-inductance, capacitance, frequency, temperature, LDRC characteristics, displacement, humidity, liquid level, CT testing, etc.



Network theory lab for the study of superposition theorem, tellegen theorem, LC filter kit, digital multimeter, LCR meter, clamp meter, programable DC power supply, function generator, etc.



Electronics device and circuit lab for the study of switching action of a transistor, op-amp as inverting amplifier, non-inverting amplifier, differentiating amplifier, etc.



Control system lab for the study of process simulator panel, thyristor actuator panel, stepper motor panel, servo voltage stablizer kit, temperature control kit, synchro-transmitor receiver unit, etc.



Electrical machine lab for the study of polarity and ratio test of single phase and 3-phase transformer, open circuit and short circuit test, efficiency and voltage regulation, DC compound motor, DC shunted and series motor, etc.



Matlab programming for control system toolbox, simElectronics, simMechanics, fuzzy logic toolbox, wavelet toolbox, symbolic math toolbox, curve fitting toolbox, etc.



Digital and non-linear control laboratory for the study of analogue control module, ball and beam control system, magnetic levitation system, Industrial robot, and computer system.

Department of Mechanical Engineering



Engineering workshop consists of measurement shop, carpentry shop, machine shop, sheet metal shop, welding shop and fitting shop.



Welding shop for the study of various kind of welding Processes like spot welding, TIG, MIG arc welding, etc.



Fluid mechanics lab for the measurement of different properties of Fluid, discharge, coefficient of discharge, Bernoullis theorem, etc.



Heat and mass transfer lab for measurement of thermal conductivity of powder, emissivity, forced convection, thermal conductivity of liquid and study of Stefan-Boltzman apparatus.



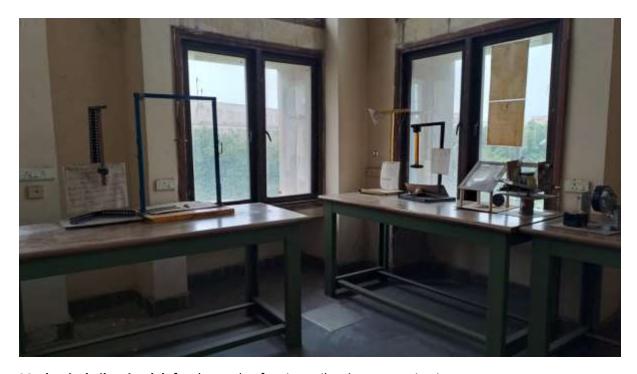
Refrigeration and air conditioning lab for the study of air condition, household refrigeration, heat pump, ice plant, refrigeration test, etc.



Computational fluid dynamics lab for the study of software on heat conduction, fluid flow over flat plate, cylinders and around aero foil section, etc.



Automobile lab for study working of various components embedded in the automobiles.



Mechanical vibration lab for the study of various vibration measuring instruments.



Dynamics of machine lab the study of various kind of governors, gear ratio, static and dynamic balancing, dynamometers, moment of inertia determination, pressure distribution in bearings, cam follower pair study, etc.



Fluid machinery lab for the study of impact of jet, turbines, pumps, hydraulic ram, hydro-power plants, pelton wheels, etc.



Applied thermodynamics lab for the study of engines including diesel and petrol, rack and pinion model, gas turbine, turbochargers, internal expanding brake model, etc.

Department of Civil Engineering



Material testing lab for tensile, compression, torsion and bending test.



Concrete lab for the study of cement, coarse aggregate, fine aggregate, brick, Concrete, etc.



Transportation lab for the study of impact test of coarse aggregate, CBR value, penetration, ductility, flash and fire point, softening point for bitumen.



Material testing lab for tensile, compression, torsion and bending test.