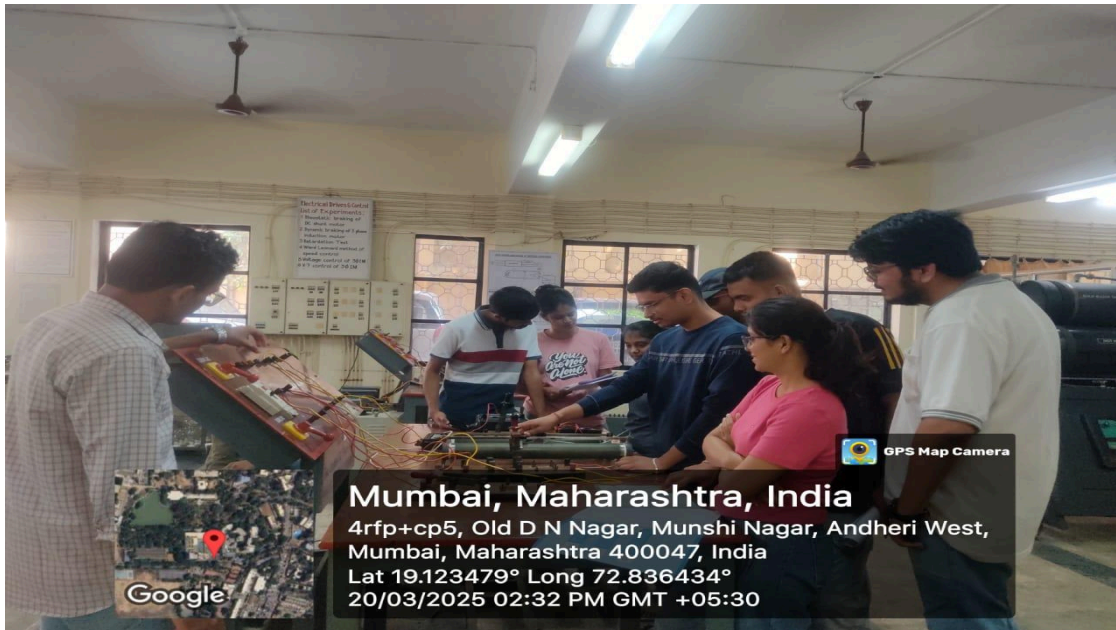


Electrical machines Lab and Electrical Drives lab



LAB ROOM NO. 43 (Ground Floor)

Electrical machines lab is well equipped with all kinds of electrical machines such as DC motors, DC generators, 3-phase Induction Motors, 3-phase synchronous generators, 3-phase synchronous motors and 3-phase, single phase transformers. Various measuring devices such as ammeters, voltmeters and wattmeters of different ranges are available to perform practicals.

Experiments such as open circuit, short circuit test on 3-phase transformer, load test on 1- phase transformer, parallel operation on single phase transformers, speed control of DC shunt motor, load test on DC shunt motor are performed .Load test on 3-phase induction motor, voltage regulation calculation of synchronous generator by ZPF, EMF and MMF methods are also performed. Students perform experiments on synchronization of alternator and slip test on synchronous generator and V-curve and inverted V-curve of synchronous motor .Through hands-on experiments with real machines, FY,SY and Final year B.Tech students gain practical experience all of which help to increase the technical skills of students.