

Course code	Course Name	L-T-P - Credits	Year of Introduction
EE235	Electrical Technology lab	0-0-3-1	2016
Prerequisite : EE209 Electrical technology			
Course Objectives <ul style="list-style-type: none"> To impart working knowledge on electrical circuits, A C machines, DC machines and transformers. 			
List of Exercises/Experiments : (Minimum 10 experiments are mandatory) <ol style="list-style-type: none"> Verification of Thevenin's theorem Verification of Norton's theorem Verification of Superposition theorem Verification of Maximum power transfer theorem Power measurement in 3 phase balanced circuits Power measurement in 3 phase unbalanced circuits Load test on DC shunt motor Load test on DC series motor Speed control of DC shunt motor Open circuit characteristics of DC series motor. Open circuit characteristics of dc shunt motors Swinburne's test and separation of losses in DC machine. Load test on single phase transformer Load test on 3-phase induction motor No load test on 3- phase induction motors. 			
List of major equipment DC shunt motor, DC series motor, DC series motor, single phase transformer, 3-phase induction motor, Watt meters, Ammeters, voltmeters, Tachometers.			
Expected outcome. <ul style="list-style-type: none"> On completion of this lab course, the students will be able to understand the concept of electric circuits and the performance characteristics of electrical machines. 			
Text Book: Theraja B.L., Theraja A.K. <i>A Text Book of Electrical Technology</i> , Vol.II "AC & DC Machines", publication division of Nirja construction & development (p) Ltd., New Delhi.			