

KDK College of Engineering, Nagpur
Department of Electrical Engineering

CO PO PSO ATTAINMENT

2017-18

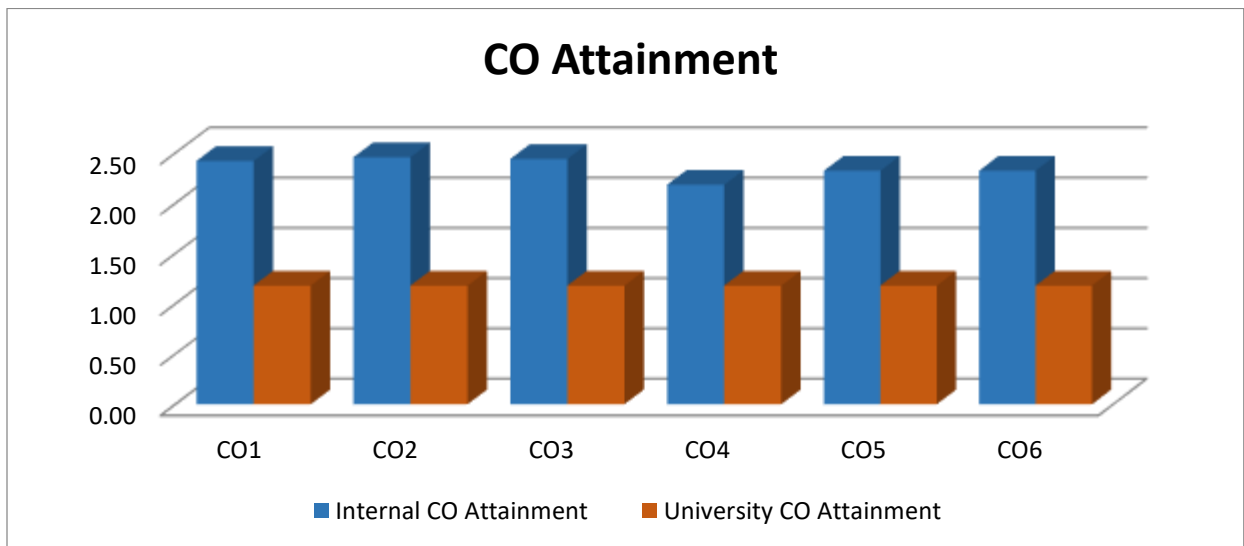
CO Attainment

THIRD SEMESTER B. E. ELECTRICAL

BEELE303T :- ELECTRICAL MEASUREMENT AND INSTRUMENTATION

After studying this subject, the students will be able to

C303T.1	Understand the details of different bridges used for measurement of RLC
C303T.2	Understand the details of different electrical measuring instruments.
C303T.3	Measure the electrical power and energy and use CT, PT
C303T.4	Study the generalized instrumentation system with the help of a block diagram
C303T.5	Know the transducers and its use for measurement of force, torque, velocity, acceleration.
C303T.6	Understand the basic idea about measurement of temperature, pressure and flow.



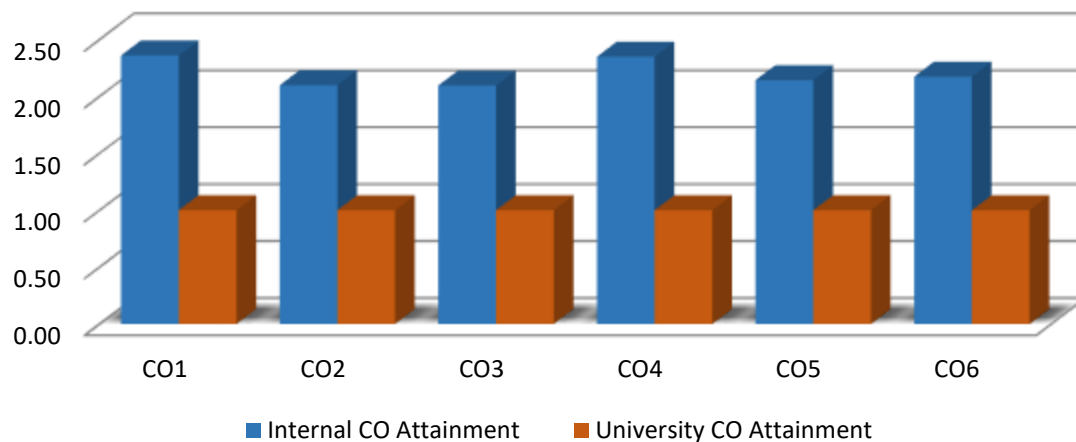
FOURTH SEMESTER B. E. ELECTRICAL

BEELE402T :- ELEMENTS OF ELECTROMAGNETICS

After studying this subject, the students will be able to

C402T.1	Understand vector analysis using different coordinate system.
C402T.2	Study coulomb's law and able to calculate Electric field intensity, Flux density for different form of charges.
C402T.3	Understand and apply Gauss's law, Divergence theorem and calculation of Potential and Energy density in electrostatic field.
C402T.4	Study Poisson's and Laplace equation and calculate capacitance and their boundary condition for Dielectric Materials.
C402T.5	Study various laws for steady magnetic fields and forces.
C402T.6	Apply Maxwell's equation and do analysis of uniform plane wave propagation and electromagnetic waves.

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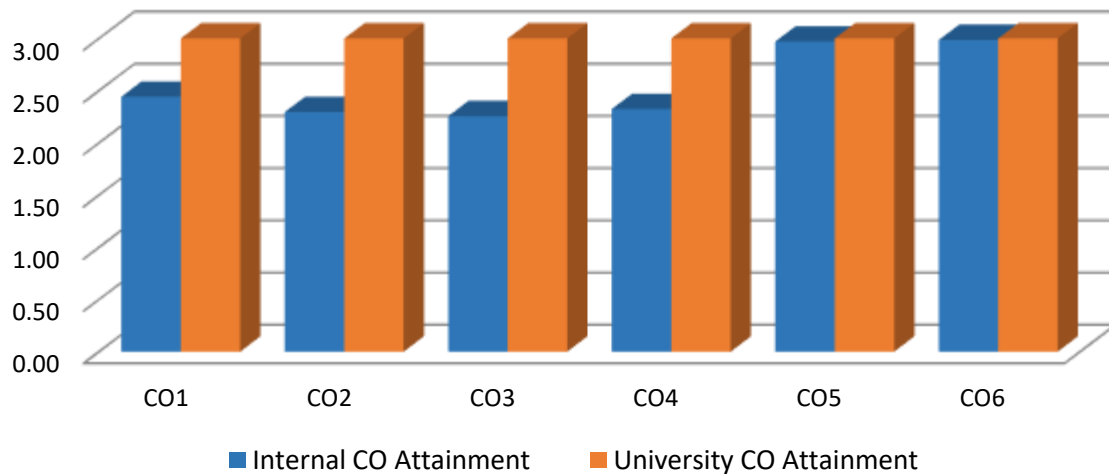
FIFTH SEMESTER B. E. ELECTRICAL

BEELE505T :- ELECTRICAL MACHINES-II

After studying this subject, the students will be able to

C505T.1	Understand the Principle, construction, operation, types of winding, generation of EMF of synchronous machine.
C505T.2	Analysis the steady state operation of 3-ph synchronous machines using different voltage Regulation methods & slip test.
C505T.3	Understand and analyze parallel operation of synchronous machine .
C505T.4	Examine the Synchronous machine on infinite bus, synchronous motor operation with variable excitation & load.
C505T.5	Inspect the transient behavior of the Synchronous machines.
C505T.6	Understand special motors like Repulsion, Hysteresis, Reluctance, Universal and BLDC motors.

CO Attainment



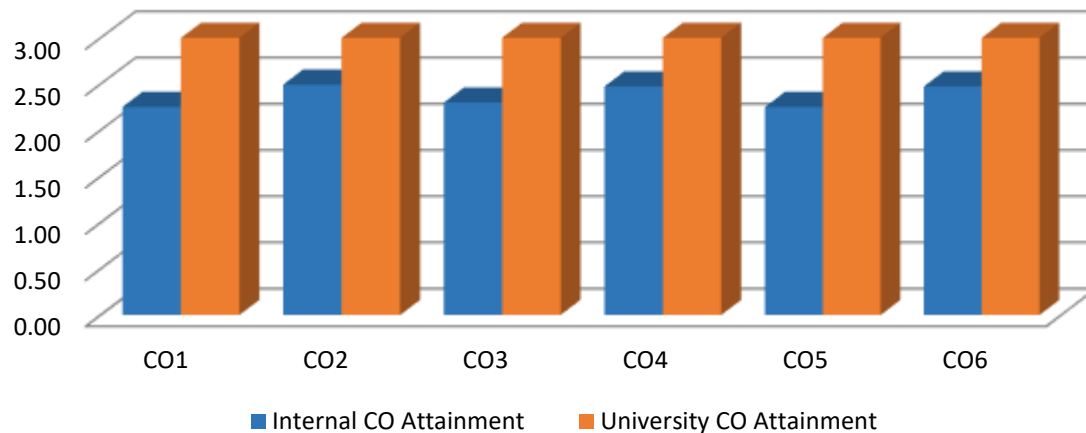
SIXTH SEMESTER B. E. ELECTRICAL

BEELE601T :- POWER STATION PRACTICE

After studying this subject, the students will be able to

C601T.1	Understand various sources of electrical energy and different factors related to generating stations
C601T.2	Analyze general layout, major equipment and auxiliaries in thermal power station.
C601T.3	Illustrate the basics of hydro power station.
C601T.4	Illustrate the basics of nuclear power generation.
C601T.5	Understand different excitation system for power generation and calculate tariff for different customers.
C601T.6	Comprehend need and basics of co-generation, captive power generation for sustainable development.

CO Attainment

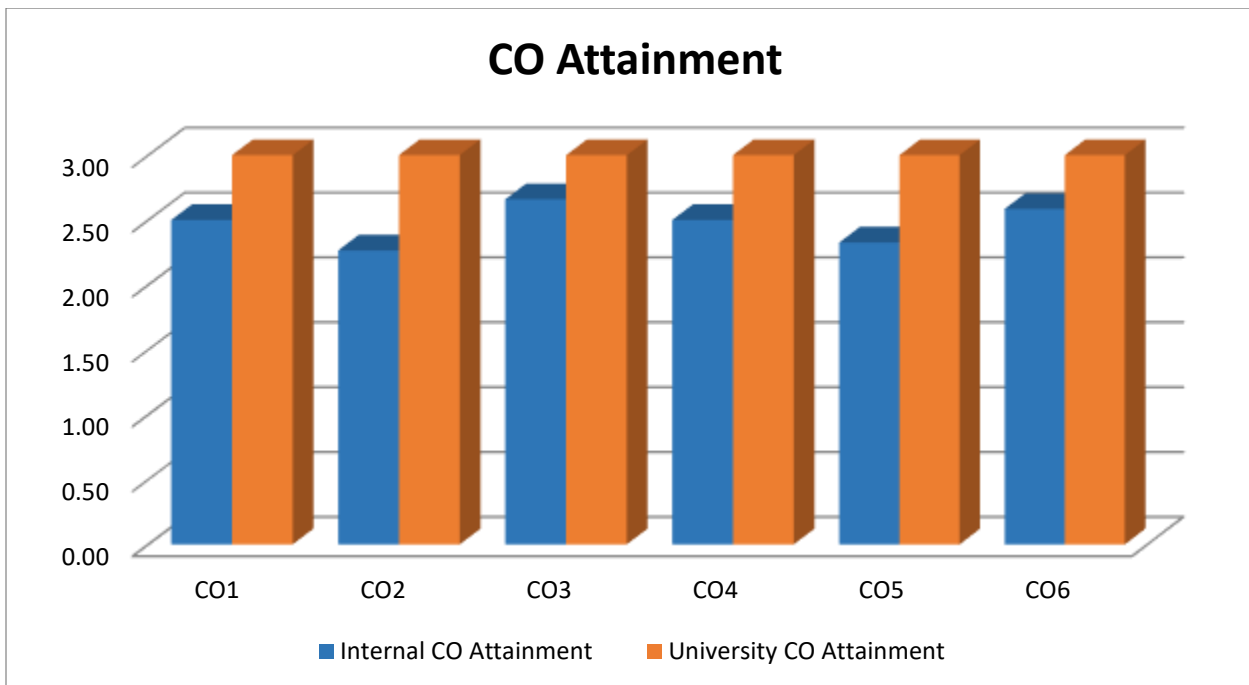


SEVENTH SEMESTER B. E. ELECTRICAL

BEELE701T :- CONTROL SYSTEM-II

After studying this subject, the students will be able to

C701T.1	Understand the basic knowledge of compensation in time and frequency domain.
C701T.2	Develop solution of state equation.
C701T.3	Design and analyze practical system for the desired specifications through state variable approach.
C701T.4	Analyze the optimal control with and without constraints.
C701T.5	Analyze the non-linear control system for various non- linearities.
C701T.6	Analyze the digital control system.



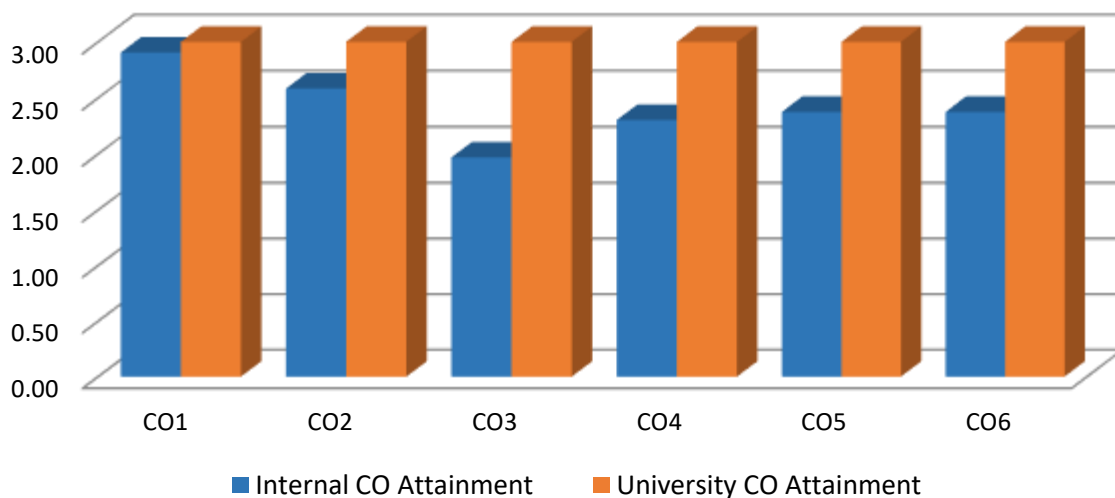
EIGHTH SEMESTER B. E. ELECTRICAL

BEELE 803T :-SWITCH GEAR AND PROTECTION

After studying this subject, the students will be able to

C803T.1	Understand the general philosophy of protective relaying
C803T.2	Comprehend over current relaying for medium voltage line protection
C803T.3	Understand distance relaying for high voltage line protection.
C803T.4	Learn & design Protection systems used for electric machines, transformers, bus-bars, transmission lines.
C803T.5	Comprehend basic idea of static relays to synthesis different relay characteristics using comparators
C803T.6	Understand theory, construction and applications of main types of circuit breakers.

CO Attainment



PO - PSO Attainment

PO & PSO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2
PO and PSO Attainment	2.53	2.40	2.06	2.13	2.12	2.18	2.34	2.20	2.34	2.23	1.82	2.32	2.09	1.90
Target Level	2.4	2.4	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	1.8	2.1	1.9	1.9

