

## **Course Description**

### **EE608: Generalized Theory of Electrical Machines**

Unified approach to the analysis of electrical machine, Kron's primitive machine, linear transformation from 3-phase to 2-phase transformation from rotating axes to stationary axes, power invariance, park's transformation

3-phase induction machine generalized model, steady state and transient analyses, applications in speed control of induction machine, induction motor modeling in arbitrary reference frame and in field oriented frame,

Poly-phase Synchronous Machines-generalized model- steady state and transient analyses, transient power angle characteristics.