Course Number and Name

BEE047 & Power System Operation and Control

Credits and Contact Hours

3 & 45

Course Coordinator's Name

Dr.V.Jayalakshmi

Course Description

To understand the economics of power system operation with thermal and hydro units, To realize the requirements and methods of real and reactive power control in power system and to be familiar with the power system security issues and contingency

Prerequisites	Co-requisites						
Transmission & Distribution	Nil						
required, elective, or selected elective (as per Table 5-1)							

Required

Course Outcomes (COs)

CO1: An overview of power system operation and control.

CO2: Basics of speed governing mechanism, modelling and speed-load characteristics.

CO3:Generation and absorption of reactive power.

CO4: Formulation of economic dispatch problem and incremental cost curve coordination equations without and with loss (No derivation of loss coefficients).

CO5: Know the concept of energy control centre.

Student Outcomes (SOs) from Criterion 3 covered by this Course												
COs/SOs	а	b	c	d	e	f	g	h	i	j	k	1
CO1	М	Н	М	М	М	L	М	L	М	L	L	Μ
CO2	Н	Н	М	М	Н	М	М	L	Η	М	L	Μ
CO3	Н	Н	М	Н	Н	Н	М	М	М	М	L	Μ
CO4	Н	Н	Н	Н	Н	Н	М	М	L	М	L	М
CO5	Н	Н	Η	Η	М	М	М	М	L	М	L	М