

Course Number and Name												
BEE016 & Flexible AC Transmission Systems												
Credits and Contact Hours												
3 & 45												
Course Coordinator's Name												
Dr.V.Jayalakshmi												
Course Objectives												
This course introduces the application of a variety of high power-electronic controllers for active and reactive power in transmission lines. Students are exposed to the basics, modeling aspects, control and scope for different types of FACTS controllers.												
Prerequisites						Co-requisites						
Power Generation Systems						Nil						
required, elective, or selected elective (as per Table 5-1)												
Required												
Course Outcomes (COs)												
CO1:To understand various types of power controllers in transmission lines. CO2: To understand the static VAR compensator and its applications. CO3: To understand the TCSC controller and its applications. CO4:To understand the transient stability and modelling of STATCOM. CO5: To learn the concept of coordination of FACTS controllers.												
Student Outcomes (SOs) from Criterion 3 covered by this Course												
COs/POs	a	b	c	d	e	f	g	h	i	j	k	l
CO1	H	H	M	M	M	M	M	L	M	M	L	M
CO2	H	H	M	M	H	M	M	L	M	M	L	M
CO3	H	H	M	M	H	H	M	L	M	M	L	M
CO4	H	H	M	H	H	H	M	M	M	M	L	M
CO5	H	H	M	H	H	H	M	M	M	M	L	M