

Course Number and Name												
BEE045 & Instrumentation and Control In Power Plant Industries												
Credits and Contact Hours												
3 & 45												
Course Coordinator's Name												
Mr.Vijaaragavan												
Text Books and References												
Text Books:												
1. P. K. Nag, "Power Plant Engineering" 2 nd Edition, Tata McGraw-Hill Education, 2002												
2. Sam G. Dukelow, "The control of boilers" 2 nd Edition, Research Triangle Park, 1991												
References:												
1. R.K.Jain, "Mechanical and Industrial Measurements", 10 th Edition, Khanna Publishers, New Delhi, 1995.												
2. Bela G Liptak, "Instrumentation in the processing industries" 1 st edition, Chilton Book Co, Chilton Book Co; 1973.												
3. https://app.knovel.com/web/toc.v/cid:kpPCITCBH4												
Course Description												
We can know about the various methods of power generation and its control methods.												
Prerequisites						Co-requisites						
Control System						Nil						
required, elective, or selected elective (as per Table 5-1)												
Required												
Course Outcomes (COs)												
CO1: Measurement, Control System												
CO2: To be familiar about the important parameters that has to be monitored and controlled												
CO3: To be familiar about the various parameters that has to be analyzed and measured analytically												
CO4: To understand about the boilers.												
CO5: To get an detailed knowledge about Nuclear Power Plant Instrumentation												
Student Outcomes (SOs) from Criterion 3 covered by this Course												
COs/SOs	a	b	c	d	e	f	g	h	i	j	k	l
CO1	H	H	H	H	H		H	H	H	H	M	M
CO2	M			M	M	M	L	L				H
CO3	L	L	H									H
CO4		H	H	H								H
CO5	H	M	H					H		H		H
List of Topics Covered												
UNIT I OVERVIEW OF POWER GENERATION											9	
Brief survey of methods of power generation-Wind, Solar, Tidal, Geothermal, MHD, Fuel cells,												

