

Course Number and Name												
BEE501 &Control Systems												
Credits and Contact Hours												
4&60												
Course Coordinator's Name												
Dr.V.Jayalakshmi												
Text Books and References												
Text Books:												
1. Katsuhiko Ogata, "Modern Control Engineering" 5th Edition, Prentice Hall of India Private Ltd., New Delhi, 2012.												
2. Nagrath I J and Gopal.M., "Control Systems Engineering", 5 th Edition, New Age International (P) Ltd, Publishers 2012.												
References:												
1. M. Gopal, "Control Systems: Principles and Design", 3 rd Edition, McGraw, Hill, 2014												
2. Benjamin C Kuo, "Automatic Control system", Prentice Hall of India Private Ltd., New Delhi 2012.												
3. R.C. Dorf and R.H. Bishop, "Modern Control Systems", 12 th Edition, Prentice, Hall, 2010.												
4. http://www.mathworks.com/access/helpdesk/help/toolbox/control/												
5. http://nptel.ac.in/courses/108101037												
Course Description												
To provide an introduction to the analysis of linear control systems. This will permit to exploit time domain and frequency domain tools												
Prerequisites						Co-requisites						
Engg Mathematics-I, Engg Mathematics –III and Electrical Network Analysis and Synthesis						Nil						
required, elective, or selected elective (as per Table 5-1)												
Required												
Course Outcomes (COs)												
CO1: Understand the concept of control system, Electrical analogy of mechanical systems and the use of transfer function models for the analysis of physical systems.												
CO2: Understand, define different time domain specification parameters												
CO3: Gain knowledge in various frequency response analysis												
CO4: Understand the methods to analyze the stability of systems design of compensators.												
CO5: Understand the concept of state variable analysis and modeling of the system by the State variable technique.												
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	M	H	M	H	M					L	L	M

