

Course Number and Name												
BEE403&Linear Integrated circuits												
Credits and Contact Hours												
3&45												
Course Coordinator's Name												
Dr. V. Jayalakshmi												
Text Books and References												
Text Books:												
1. D. Roy Chowdhury , “Linear Integrated Circuits” , New Age International (p) Ltd, 2nd edition,2003.												
2. Ramakanth A. Gayakwad “Op-Amps & Linear ICs”, PHI, 4th edition, 1987.												
References:												
1. R.F. Coughlin and Fredrick F. Driscoll, “Operational Amplifiers and Linear Integrated Circuits”, PHI, 6th edition 1977.												
2. David A. Bell, “Operational Amplifiers & Linear ICs”, Oxford University Press, 2nd edition, 2010.												
3. Design with Operational Amplifiers and Analog Integrated Circuits - Sergio Franco, McGraw Hill, 3rd edition, and 2002.												
4. http://nptel.ac.in/video.php?subjectId=108106068												
Course Description												
Ability to understand and analyze linear and digital electronic circuits.												
Prerequisites						Co-requisites						
Digital Electronics						Nil						
required, elective, or selected elective (as per Table 5-1)												
Required												
Course Outcomes (COs)												
CO1: Understand the DC and AC characteristics of operational amplifiers and its effect on output and their compensation techniques.												
CO2: Understand & demonstrate different applications based on operational-amplifier												
CO3: Understand Timer IC 555 and PLL & demonstrate different applications based on it.												
CO4: Differentiate A/D and D/A converter, understand their types and analyze their applications.												
CO5: Demonstrate the various applications of special Function ICs such as Voltage regulators and amplifiers												
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	M	M	H	H		M	H	H	L	L	M
CO2	H	M	M	H	H		M	H	H	L	L	M
CO3	H	M		H	H		M	H	H	L	L	M
CO4	H	M		H	H		M	H	H	L	L	M
CO5	H	M	M	H	H		M	H	H	L	L	M
List of Topics Covered												

