

<b>Course Code: EIPS - 110</b>		
<b>Course Title: Analog Electronics Lab</b>		
<b>Number of Credits: 03</b>	<b>Total Hours: 84</b>	<b>Total Marks: 75</b>
<b>Prerequisites for the course</b>		
Working knowledge of analog electronics devices		
<b>Objectives of Course</b>		
This course is intended to provide laboratory training and designing electronics circuits such as transistor amplifiers, power supply and operational amplifiers. Identify different sections and components in the circuit diagram.		
<b>Course Content</b>		<b>84 Hours</b>
<b>Expt. 1:</b> Identifying and testing of diode, NPN and PNP transistors. <b>Expt. 2:</b> Study of bridge rectifier <b>Expt. 3:</b> Study of Zener diode and its characteristics <b>Expt. 4:</b> Unregulated and regulated power supply <b>Expt. 5:</b> Load regulation of regulated and unregulated power supply <b>Expt. 6:</b> Line regulation <b>Expt. 7:</b> Study of Wien's bridge oscillator <b>Expt. 8:</b> Phase shift oscillator <b>Expt. 9:</b> Hartley oscillator and Colpitts oscillator <b>Expt. 10:</b> Non-inverting and inverting amplifier <b>Expt. 11:</b> Integrator and differentiator using OP-AMP <b>Expt. 12:</b> Adder and subtractor using OP-AMP <b>Expt. 13:</b> Design of class A amplifiers		
<b>Pedagogy</b>		
Lab experiments/Assignment		
<b>Course Outcome</b>		
Should be able to design and construct electronic circuits by identifying different components. Plot the graph and analyse the results. Students are expected to learn how to maintain lab record.		