

**AIRCRAFT PRODUCTION TECHNOLOGY LAB**

<b>VI Semester</b>								
<b>Course Code</b>	<b>Category</b>	<b>Hours / Week</b>			<b>Credits</b>	<b>Maximum Marks</b>		
<b>A5AE26</b>	<b>ESC</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>	<b>CIA</b>	<b>SEE</b>	<b>Total</b>
		-	-	3	1.5	30	70	100
<b>COURSE OBJECTIVES:</b>								
The course should enable the student:								
<ol style="list-style-type: none"> <li>To understand and study the various manufacturing process in aircraft industries.</li> <li>To understand and perform various operation on conventional machines.</li> <li>To understand and perform various operation on CNC machines.</li> <li>To understand and perform various surface finishing operations.</li> </ol>								
<b>LIST OF EXPERIMENTS</b>								
<ol style="list-style-type: none"> <li>Lathe operations (threading, Boring, Eccentric turning)</li> <li>Milling</li> <li>Drilling and tapping</li> <li>Shaping (making V grooves)</li> <li>Slotting (making slots on pulleys)</li> <li>Surface grinding</li> <li>Planning</li> <li>CNC lathe <ol style="list-style-type: none"> <li>Facing</li> <li>Step turning</li> <li>Taper turning</li> </ol> </li> <li>CNC milling <ol style="list-style-type: none"> <li>Plain milling</li> <li>Step milling</li> </ol> </li> <li>Preparation of Riveted Joints</li> </ol>								
<b>Reference Books:</b>								
Manufacturing Engineering and Technology by Kalpakjian.								
<b>COURSE OUTCOMES:</b>								
The students should be able to:								
<ol style="list-style-type: none"> <li>Operate conventional machines to remove material with single point cutting tools like lathe, shaping, planning and slotting.</li> <li>Operate conventional machines to remove material with multi point cutting tools like milling, drilling, etc</li> <li>Perform surface finishing using surface grinding machines</li> </ol>								