

No	Course Information	
1.	Unit Name : Workshop Technologies and Practices II	
2.	Unit Code : CE-21019	
3.	Classification : Engineering Subject	
4.	Credit Hours : 2.5	
5.	Semester and Year Taught: 2/2	
6.	Pre-requisite (if any) : None	
7.	Mode of Delivery : Lecture and Practical	
8.	Assessment System and Breakdown of Marks ::	
	Practical	30%
	Final Examination	70%
	Total	100%
9.	Academic Staff Teaching Unit :	
10.	<p>Objective of Unit:</p> <p>The objective of this course is to :-</p> <p>The main objective of workshop is to apply for outside construction works by using knowledge and training practice in university and improve the jobs practical systemically.</p>	
11.	<p>Learning Outcomes of Unit:</p> <p>On completion of this unit, students shall be able to</p> <p>( a ) To get the knowledge of tools for woods and brick mason.</p> <p>( b ) Apply the right technique of various masonry and carpentry works in construction sites.</p>	
12.	<p>Synopsis of Unit:</p> <p>This unit is intended students to learn the theoretical and practical work shop necessary for the construction work.</p>	

13.	<p><b>Topic 1: Tools Used</b></p> <ul style="list-style-type: none"> <li>• Spirit level, Measuring, T-angle, Taut Line</li> <li>• trowels, Brick Cutters</li> </ul> <p><b>Topic 2: Bonding</b></p> <ul style="list-style-type: none"> <li>• Terms applied to bonding brick</li> <li>• Overlapping and module concept</li> <li>• Structural Pattern Bonds</li> <li>• Corners, Quoins, Closers</li> </ul> <p><b>Topic 3: How to Lay Brick</b></p> <ul style="list-style-type: none"> <li>• Scaffolding, footings, mixing the mortar, wetting the brick</li> <li>• Proper use of the trowel, applying the mortar, laying the brick</li> <li>• Using the taut line, tooling the joints</li> </ul> <p><b>Topic 4: Tools for working with woods</b></p> <ul style="list-style-type: none"> <li>• Measuring and marking out, hitting implement</li> <li>• Shaving tools, saws, drills, power tools</li> <li>• Wood working machine, jointing materials</li> </ul> <p><b>Topic 5: Design and Production</b></p> <ul style="list-style-type: none"> <li>• Aspects of design, design process, design brief</li> <li>• Drawings and productions</li> </ul>
14.	<p><b>Main References: Masons and Builders Library by Louis M. Dezettel</b>  <b>Wood Technology</b></p>