



## ASSESSMENT OUTLINE MATERIAL, DESIGN & TECH WOODS – 2021 UNIT 3 AND UNIT 4



Assessment type	Assessment type weighting	Assessment task weighting	When/due date/ start and submission date	Assessment Task	Syllabus content
Design	25%	10%	Term 1 Weeks 1-5	<b>Task 1: Bottle Balancer Design Folio</b>	<b>Design Fundamentals and Skills</b> <ul style="list-style-type: none"> <li>Investigate</li> <li>Devise</li> <li>Evaluate</li> </ul> <b>Skills and Techniques</b> <ul style="list-style-type: none"> <li>ICT, portfolio development and communication skills</li> <li>Context appropriate drawing and relevant technical information to produce the final product</li> <li>select appropriate materials and calculate the quantities of materials required to complete the project</li> </ul>
		15%	Term 2 Weeks 6-11	<b>Task 2: Bedside Table Design Folio</b>	<b>Design fundamentals and skills</b> <ul style="list-style-type: none"> <li>investigate</li> <li>devise</li> <li>evaluate</li> </ul> <b>Skills and Techniques</b> <ul style="list-style-type: none"> <li>ICT, portfolio development and communication skills</li> <li>develop context appropriate drawings and relevant technical information to produce the final product</li> <li>use workroom/studio terminology appropriate to context</li> <li>select appropriate materials and calculate the correct amount required to order and purchase materials to complete the project</li> </ul>
Production	50%	5%	Term 1 Weeks 1-5	<b>Task 3: Bottle Balancer</b>	<b>Production Management</b> <ul style="list-style-type: none"> <li>production planning</li> <li>ongoing evaluation techniques: diary, journal or portfolio notes and use of photography, to record ongoing progress/decision changes made to the project</li> </ul> <b>Safety</b> <ul style="list-style-type: none"> <li>correct use of personal protective equipment (PPE) where applicable</li> <li>occupational safety and health (OSH) practices appropriate to tasks being undertaken in workshops</li> <li>apply risk management strategies in the workshop/studio</li> <li>assess the condition of tools and machinery</li> </ul> <b>Skills and Techniques</b> <ul style="list-style-type: none"> <li>select and safely apply technical skills using a range of tools and machinery</li> <li>use hand tools and/or machinery to fabricate at least two of the following joints</li> <li>select and use the correct type and grade of abrasive paper</li> <li>prepare correctly a surface for finishing</li> <li>apply appropriate finishing techniques using brush or cloth and/or spray gun</li> </ul>



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		20%	<b>Term 1</b> <b>Weeks 4-9</b> <b>Term 2</b> <b>Weeks 1-11</b>	<b>Task 4: Desk Drawers</b>	<b>Safety</b> <ul style="list-style-type: none"> <li>correct use of personal protective equipment (PPE) where applicable</li> <li>occupational safety and health (OSH) practices appropriate to tasks being undertaken in workshops</li> <li>apply risk management strategies in the workshop/studio</li> <li>assess the condition of tools and machinery</li> </ul> <b>Skills and Techniques</b> <ul style="list-style-type: none"> <li>select and safely apply technical skills using a range of tools and machinery</li> <li>use hand tools and/or machinery to fabricate at least two of the following joints</li> <li>select and use the correct type and grade of abrasive paper</li> <li>prepare correctly a surface for finishing</li> <li>apply appropriate finishing techniques using brush or cloth and/or spray gun</li> </ul>
		25%	<b>Term 3</b> <b>Weeks 1-10</b> <b>Term 4</b> <b>Weeks 1</b>	<b>Task 5: Bedside Table</b>	<b>Production Management</b> <ul style="list-style-type: none"> <li>production planning</li> <li>ongoing evaluation techniques: diary, journal or portfolio notes and use of photography to record ongoing progress/decision changes made to the project</li> </ul> <b>Safety</b> <ul style="list-style-type: none"> <li>correct use of personal protective equipment (PPE) where applicable</li> <li>conduct risk assessment for using specific tools/machinery</li> <li>demonstrate occupational safety and health (OSH) practices appropriate to tasks being undertaken in workshops</li> <li>apply risk management strategies in the workshop/studio</li> </ul> <b>Skills and Techniques</b> <ul style="list-style-type: none"> <li>use workroom/studio terminology appropriate to context</li> <li>select appropriate materials and calculate the correct amount required to order and purchase materials to complete the project</li> <li>operate machinery and tools appropriate to context</li> <li>identify, remove and report blunt, dull or damaged tools and machinery appropriate to context</li> </ul>
<b>Response</b>	<b>10%</b>	1%	<b>Term 1</b> <b>Week 4</b>	<b>Task 6: Environmental Impact Worksheet</b>	<b>Materials in context</b> <ul style="list-style-type: none"> <li>identification of examples of re-cycling methods for different wood materials</li> <li>the environmental impact of producing timber</li> </ul>
		1%	<b>Term 1</b> <b>Weeks 9</b>	<b>Task 7: OSH Worksheet</b>	<b>Safety</b> <ul style="list-style-type: none"> <li>recognise need and purpose of materials safety data (MSD) with regard to storage and handling of hazardous substances and hazardous operations appropriate to situation</li> <li>apply risk management strategies in the workshop/studio</li> </ul>



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		1%	Term 1 Week 8	<b>Task 8: Adhesives Worksheet</b>	<b>Nature and Properties of materials</b> <ul style="list-style-type: none"> <li>classification of adhesives for timber</li> </ul>
		1%	Term 3 Weeks 3	<b>Task 9: Australian Timbers Worksheet</b>	<b>Nature and properties of materials</b> <ul style="list-style-type: none"> <li>properties and characteristics of Western Australian hardwoods</li> <li>the properties of timbers</li> <li>relationship between properties and end uses of timbers</li> </ul>
		1%	Term 3 Weeks 1	<b>Task 10: Timber Finishes Worksheet</b>	<b>Nature and Properties of materials</b> <ul style="list-style-type: none"> <li>types and classification of finishes: water-based, turps (oil) based, solvent-based, epoxy base, oils, waxes and polishes</li> </ul>
		3%	Term 1 Week 2	<b>Task 11: Design Elements and Fundamentals Worksheet</b>	<b>Design fundamentals and skills</b> <ul style="list-style-type: none"> <li>application of design fundamentals and factors affecting design</li> <li>understanding the elements and principles of design where applicable in context</li> </ul>
		1%	Term 1 Week 6	<b>Task 12: Timber Classification Worksheet</b>	<b>Nature and properties of materials</b> <ul style="list-style-type: none"> <li>wood types and classification</li> <li>difference between rough sawn and DAR timbers</li> <li>identification of common timber sizes, lengths, widths and thicknesses</li> <li>man-made board</li> </ul> <b>Materials in context</b> <ul style="list-style-type: none"> <li>the uses and classification of the major timber types</li> </ul>
		1%	Term 2 Week 1	<b>Task 13: Timber Properties Worksheet</b>	<b>Nature and properties of materials</b> <ul style="list-style-type: none"> <li>the properties of timbers</li> <li>physical properties</li> </ul>



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EST	15%	15%	Term 2 Weeks 3-4	Task 14: External Set Task	<p><b>Design fundamentals and skills</b></p> <p><b>investigate</b></p> <ul style="list-style-type: none"> <li>• designs in practice</li> <li>• sources of design inspiration</li> <li>• performance criteria for products</li> <li>• rapid concept development techniques to generate design ideas and concepts</li> <li>• production plans             <ul style="list-style-type: none"> <li>▪ materials list</li> <li>▪ time line for stages of production</li> </ul> </li> <li>• context appropriate drawing and relevant technical information to produce the final product to demonstrate:             <ul style="list-style-type: none"> <li>○ sketching rapid concept developments</li> </ul> </li> </ul> <p><b>Safety</b></p> <ul style="list-style-type: none"> <li>• correct use of personal protective equipment (PPE) where applicable</li> <li>• occupational safety and health (OSH) practices appropriate to tasks being undertaken in workshops</li> <li>• apply risk management strategies in the workshop/studio</li> </ul> <p><b>Wood Context Content</b></p> <ul style="list-style-type: none"> <li>○ man-made board             <ul style="list-style-type: none"> <li>▪ plywood - interior, exterior, marine</li> <li>▪ medium density fibreboards – plain, veneered</li> </ul> </li> <li>• difference between rough sawn and DAR timbers</li> <li>• identification of common timber sizes, lengths, widths and thicknesses</li> <li>• physical properties             <ul style="list-style-type: none"> <li>• durability</li> <li>• strength</li> <li>• abrasion resistance</li> <li>• flexibility</li> <li>• dimensional stability</li> <li>• shrink resistance</li> </ul> </li> </ul> <p><b>Materials in context</b></p> <ul style="list-style-type: none"> <li>• end-of-life of a product – recycling and safe disposal</li> </ul>
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**PLEASE NOTE: ASSESSMENT DATES MAY CHANGE DUE TO SCHOOL COMMITMENTS AND CHANGES TO THE SCHOOL CALENDAR**