

**DT 169 TIMBER PRODUCT TECHNOLOGY****Semester 1 2015 / 2016**

The assignment is to be delivered to General Office Room on or before Friday 4<sup>th</sup> December 2015 Week 12. Projects handed in after 11<sup>th</sup> December will **NOT** be corrected.

Assignment worth total of 15% of overall module assessment.

**Coursework 3: Cornerstone Project Stage 1: Design**

**Specifications: Creative Artefact must fit in a box : 1M x 1M x 1M.**

Design an Artefact that represents your personality and shows your creativity while demonstrating the practical skills that you have acquired since starting this programme. I have provided you with four images set out below. You will find yourself drawn to one of these images. You can use this image as inspiration.

**Countryside****Beach****City****Mountains**

Finally your Artefact must have at least 5 details from the list below

Mortise & Tenon Joints	Dovetail Joints	Glazing
Turnings	Carving	Upholstery
Mouldings (applied or solid)	Rebates or grooves	shaping
Dominos, Biscuits or Dowels	Tapering	Curved work
Veneering	Inlaying	Laminations

- Presentation:** Report must be typed and bound including standard cover sheet.  
10 Marks
- Introduction :** Discuss the concept of your design, your initial thought process. What influenced you along the way. How your style evolved. How you came to your final design. Factors that you considered such as complexity of design, manufacturing process, material costs, ergonomics and furniture standards. (500 words)  
10 Marks
- Design objectives :** Answer the questions below regarding your design.  
15 Marks  
Function: Describe the Artefact.  
Location & Proportion: Where will it be situated & what size will it be?  
Style: What will it look like? Period / Designer  
Use P.M.I. to help design your artefact, discuss outcomes. (500 words)
- Methodology:** Discuss the methods of construction and joints used for this Artefact.  
15 Marks  
What factors influenced your choice in joints? Can the use of K.D. fittings be included in the design will they add to or lessen the integrity of the design. (500 words)
- Sketches:** Provide sketches on what your Artefact will look like. Provide detailed sketches of component parts, profiled edges, exploded joints etc.  
10 Marks
- Drawings:** Provide detailed scaled drawings in orthographic of finished Artefact design and joints at appropriate scales.  
15 Marks
- Estimated time scale:** Create a chart showing estimated timescale for completion of job. Note you will have a total of 12 weeks in semester 2 at 8 hours per week. Total 96 hours. This should include from: - material breakout and construction of artefact to assembly.  
10 Marks
- Cutting list:** Provide a cutting list from the drawings for all components. You should have a finished cutting list and a machining cutting list. (order list) See example given.  
15 Marks

Details for report style are set out below:

- |    |                          |                     |   |
|----|--------------------------|---------------------|---|
| 1. | Title page               | Student Name        | 14 Bold (Centred)                       |
|    |                          | Title of Coursework | 14 Bold (Centred)                       |
|    |                          | Word Count          | 12 Plain (Right aligned bottom of page) |
| 2. | Font style               | Calibri             |   |
| 3. | Font size                | Headings            | 12 Bold (left aligned)                  |
|    |                          | Text                | 12 Plain                                |
| 4. | Text should be justified |                     |   |
| 5. | Line spacing             | 1.5                 |   |

6. Page numbering Right aligned at bottom of page.
  7. Images, graphs & charts should be labelled.
- 
- ⦿ Produce a written report approximately 1500 words. Report should include a contents page and appendix.
  - ⦿ Produce drawings and or sketches as required to be included within the report or attached in the appendix.
  - ⦿ Appropriate diagrams and photographs may be included. All material used, which is not the work of the learner, must be correctly referenced and permission obtained from the copyright holder.

**NOTE: Cornerstone Project**

For this project you are required to design the artefact in the Principles of Furniture and Joinery Design module, manufacture it in the Bespoke Machining Techniques & Furniture 2 module, produce working and 3D CAD drawings in the 3D CAD module and finally apply a finish in the Wood Finishing Module. Different learning outcomes will be assessed for each module using the one Artefact. Thus reducing the workload and at the same time providing you with a more authentic learning and assessment experience.

You will be able to update and reuse a lot of material from this assignment when constructing the Artefact in semester 2 in the Bespoke Machining Techniques & Furniture 2 class.

Also keep your CAD drawings as you will be working on these and creating 3D Cad drawings in you 3D CAD module in semester2.

**Coursework 3: Cornerstone Project Stage 1: Design** Student Name:

Marking scheme	%	%	Marks awarded
<b>Presentation: formatted as per brief with title page word count(1,500) &amp; contents page.</b>	10		
<b>Introduction: clear and relevant information. Design concept &amp; influences were discussed. Factors considered such as complexity of design, manufacturing process, material costs, ergonomics and furniture standards. 500words</b>	10		
<b>Design objectives: Function, Location &amp; proportion &amp; Style discussed. Learner used P.M.I. to aid with design. 500 words</b>	15		
<b>Methodology: Proposed method of construction and reasons for choice. Use of fittings considered. 500 words</b>	15		
<b>Sketches: Progression through design and/ or component parts</b>	10		
<b>Drawings: Detailed scaled orthographic drawing of finished table.</b>	15		
<b>Estimated time scale: Clearly shows planning.</b>	10		
<b>Cutting list: Outlined as per standard in table format.</b>	15		
<b>Total</b>	100		

Marks available 15% \_\_\_\_\_ x 0.15 = \_\_\_\_\_