

**TU 732 TIMBER PRODUCT TECHNOLOGY****Semester 1 2021/ 2022**

The assignment is to be submitted in two parts via Bright space the **Presentation** on or before **Monday 22<sup>nd</sup> November** (week 10) and the **Report Monday 13<sup>th</sup> December** (week 13). Assignment worth total of **30%** of overall module assessment.

**Coursework 2: Part one and part 2 of the Corner stone project Design Phase 30%**

## Cornerstone Project

This is phase one of the Cornerstone project you will be working on one project that will be assessed across 4 different modules. The different learning outcomes from each module will be assessed while you gain the first-hand experience of taking a project from design stage through drawing, manufacturing and finish.

### Design Phase 30%

Design, manufacture and finish an Artefact that can be presented by Access to Apprenticeship (ATA) to members of their Advisory Board as a token of appreciation of their commitment to ATA and TU Dublin.

### Drawing Phase

You will be required to produce 2D pencil drawings for the design phase and in the 3DCAD Module you will be required to recreate these into CAD and produce 3D CAD drawings of your artefact and display them in a poster.

### Manufacture Phase

The manufacture of the Artefact will be assessed on a marking scheme designed to meet the learning out comes of the Machining Techniques & Furniture 2 module. You will need your finished drawings and cutting list for week one of Sem. 2.

### Finishing

You can apply the finish to your artefact during the Wood Finishing Module and the learning outcomes from this module will be assessed there.

**Coursework 2: Design, manufacture and finish the artefact.**

**Project Aim:** The project aim is to design, manufacture and finish an Artefact that can be presented by Access to Apprenticeship (ATA) to members of their Advisory Board as a token of appreciation of their commitment to ATA and TU Dublin..

Appreciate the various stages of the design process. Apply techniques, processes and methodologies for creating designs. Demonstrate an understanding of the theoretical elements and their application as required in the construction of furniture. Given a brief, produce a detailed report from designing through to the completion of the end product. You are also required to create a portfolio documenting the various design stages and sketches of the artefact which can be included in the Appendix. Material selection and methods of jointing must also be documented.

**Clients: Therese Fitzgerald Programme Officer TU Dublin Access to Apprenticeship  
Bobby Maher Manager Access to Apprenticeship Programme TU Dublin**

**The Artefact:**

You are to use the Client Meetings to gain more information as to what exactly the Artefact could be. The artefact must have flat surface to allow for the mounting of a brass plate size approx. 120mm x 50mm.

As these artefacts are to be presented to people as gifts from ATA there is an expectation for the finished work to be of the highest quality. The item should demonstrate the learner's creativity and ability as well as the skills used in designing and manufacturing of this artefact. Size of the artefact is important; it must be proportioned well, and component sizes must be portioned accordingly. **You may seek further information from the Client at the briefing 2.00pm on Monday 15<sup>th</sup> November.**

**Finally,** Timber available, Mahogany, Walnut, Beech & Maple **and** your Artefact must have at least 5 details from the list below:

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

**NOTE:** Maximum manufacturing time 45 hours. Ready for finish application **week 8 Semester 2**

**Client must be satisfied with end product.****Coursework 2: Part 2: Design, manufacture and finish the artefact. Report 20%**

- Presentation:** Report must be typed and include the standard cover sheet and title page to include word count. All images **must be** labelled and referenced. Report should include a contents page and reference page and appendix. To be submitted via Brightspace.  
10 Marks
- Introduction:** Discuss the concept of your design, your initial thought process in bringing you to the final design. Factors that you considered such as complexity of design, manufacturing process, use of traditional hand versus power tools and or machines. Discuss how you have incorporated the Clients input into your design. Reasons for material selection, timber selection, solid wood or veneers, fittings and methods of jointing must also be documented. (500 words)  
20 Marks
- Design objectives:** Appreciate the various stages of the design process. Apply techniques, processes and methodologies for creating designs, including a scaled prototype. (include images within the report) (500 words)  
15 Marks
- Sketches :** Provide sketches on the development of your Artefact throughout the whole design phase Provide detailed sketches of component parts, profiled edges, exploded joints etc.  
15 Marks
- Working Drawings:** Provide fully dimensioned set of working drawings (Pencil or CAD) on A3 sheets to show orthographic of artefact at appropriate scales.  
20 Marks
- Estimated time scale:** Create a table showing estimated hourly timescale for completion of job. Note you will have a total of 7 weeks in semester 2 at 6.5 hours per week. Total 49 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.  
10 Marks

**NOTE:** The last three items can also be included in your report for Machining Techniques & Furniture 2. (You will be given this brief in the Machining Techniques & Furniture 2. Class)

**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 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.

**Coursework 2: Part 1: Design, manufacture and finish the artefact. Oral Presentations (10%)**

Orally present your findings to the assessor/s and peers on the subject area. (Time 5 minutes). Oral presentation can be Power Point, Prezzie, Keynote or other digital format.

Hopefully this will be done in person but we may have to revert to online. If online you will need to record your presentation and submit your recording of the presentation via Brightspace on or before Monday 22<sup>nd</sup> November. Client Face to face presentations are scheduled for **Monday 29<sup>th</sup> November in the Boardroom Bolton St. main building**. You will be offered a **work in progress class** on Monday 22<sup>nd</sup> November to discuss ideas, adhesives, veneers work and finishes.

After the oral presentations you can take onboard the feedback to adjust your designs, material choice etc. before completing your report. Presentations are to be uploaded into Brightspace along with report.

**Items that you will need to consider and include at this stage:**

Sketches (choose the better ones and paste them into a slide)

Material selection include good images of materials that you propose using.

Your final design to include some details on overall sizes.

**Important: you have the option to prerecord your presentation for the Face to Face event. Play your recorded presentation then answer your questions live at the end.**

When you have created your presentation there are a number of methods that you can use to record your voice over your presentation you have free choice on the method you select. Please see the presentation page of the website for further instructional videos.

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**2021 / 2022**

Student Name/No \_\_\_\_\_

**Coursework 2: Part 1: Design, manufacture and finish the artefact. Report 20%**

Marking scheme	%	%	Marks awarded
<b>Presentation: Formatted as per brief with title page &amp; contents page. word count (1,000)</b>	10		
<b>Introduction: Clear and relevant information. Design concept &amp; influences were discussed. Factors considered such as complexity of design, and client's input. 500words</b>	20		
<b>Design objectives: Various stages of the design process. Apply techniques to include prototype. 500 words.</b>	20		
<b>Sketches: Progression throughout the whole design phase and/ or component parts</b>	15		
<b>Working Drawings: Fully dimensioned set of working drawings. All required views presented.</b>	15		
<b>Estimated time scale: Clearly shows planning. 6.5 hrs per week for 7 weeks Total 45hrs</b>	10		
<b>Cutting list: Outlined as per standard in table format.</b>	10		
<b>Total</b>	100		

Marks available 20% \_\_\_\_\_ x 0.20 = \_\_\_\_\_

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**Coursework 2: Part 1: Design, manufacture and finish the artefact. Presentation 10%**

Marking scheme	%	%	Marks awarded
<b>Oral Presentation:</b>			
The presentation is interesting and well laid out.	20		
The presentation clearly outlines the thought process and evolution of the design.	30		
Appropriate use of visual material to convey what the learner wanted to say.	20		
The learner demonstrates the client input into the design.	20		
The presentation showed evidence of preparation and time adhered to 5 mins ( $\pm 1$ min)	10		
<b>Total</b>	100		

Marks available 10% \_\_\_\_\_ x 0.10 = \_\_\_\_\_%