

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

The assignment is to be submitted via Bright space on or before Monday 1st November (week 7). Assignment worth total of 20% of overall module assessment.

Coursework 1: Table constructed from a half sheet of MDF 20%

- Presentation:** Report must be typed and bound including 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.
10 Marks
- Introduction:** Discuss the concept of your design, your inspiration and initial thought process. How you came to your final design. Factors that you considered such as complexity of design, manufacturing process, ergonomics and furniture standards. (300 words)
10 Marks
- Design objectives:** Answer the questions below regarding your table design.
15 Marks
Function: How will this table be used?
Proportion: How did you determine overall sizes?
Customize: Who will use it? (private – public)
Style: What will it look like?
Visual impact: What should this be? (300 words)
- Methodology:** Discuss the methods of construction and joints used for this table. What factors influenced your choice in joints? Could this jointing process be used with solid wood? Why or why not? (500 words)
15 Marks
- Sketches:** Provide sketches on what your table will look like. Provide detailed sketches of component parts, profiled edges, exploded joints etc.
10 Marks
- Working Drawings:** Provide fully dimensioned set of working drawings (Pencil or CAD) on A3 sheets to show orthographic of table. Show proposed method of marking out components on the half sheet of MDF in a scaled drawing. (This **must** match cutting list)
20 Marks
- Estimated time scale:** Create a chart showing estimated timescale for completion of job.
10 Marks
Note: you will manufacture this table in semester 1 weeks 11 to 13
Duration to be confirmed approximately 32hrs to include from: - introduction to machines and power tools, material breakout and construction of table to assembly.
- Cutting list:** Provide a cutting list for all table components. Show proposed method of marking out components on the half sheet of MDF in a scaled drawing.
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.

Extract from Bespoke machining brief: Aidan Ryan

Project 2: Half sheet MDF table

Part 1. Half sheet MDF table (21 hours including instruction) 10% of module

Criteria:

Table to be submitted for assessment to room 109 on or before end of class on week 13 semester 1 2020

The table will be assessed under the following headings:

- Quality of workmanship.
- Attention to technical design detail.
- Utilisation and understanding of tools and material.
- Overall completion fit for finishing.
- Innovation

Restrictions:

The table must be constructed from a half sheet of 18mm MDF and incorporate curved elements. Once the ½ sheet of material is brought to rooms 109 & 110 only power tools can be utilised unless unsafe to do so. No screws, nails or other mechanical fixings are allowed.

Part 2. Working drawings:**5% of module**

Submitted **start** of class week 11 with an electronic version emailed to the lecturer.

You are to submit

- A fully dimensioned set of CAD working drawings of no more than 4 no A3 sheets to include a component list and scaled plan of the half sheet showing the cutting sequence and how to best utilise the material in order to reduce waste
- A detailed hour-based Gantt chart for the work process.

TU 732 TIMBER PRODUCT TECHNOLOGY

2021 / 2022

Student Name/No _____

Coursework 1: Table constructed from a half sheet of MDF

Total 20%

Marking scheme	%	%	Marks awarded
Presentation: Formatted as per brief with title page & contents page. word count (1,100)	10		
Introduction: clear and relevant information. Design concept & influences were discussed. Factors considered such as complexity of design, manufacturing process ergonomics and furniture standards. 300words	10		
Design objectives: Function, proportion (golden ratio) style and visual impact. 300 words.	15		
Methodology: Proposed method of construction and reasons for choice. Could this jointing process be used with solid wood? Why or why not? 500 words	15		
Sketches: Progression through design and/ or component parts	10		
Working Drawings: Fully dimensioned set of working drawings. All required views presented.	20		
Estimated time scale: Chart showing timescale for project in allocated class times.	10		
Cutting list: Outlined as per standard in table format, with drawing showing layout of components.	10		
Total	100		

Marks available 20% _____ x 0.20 = _____