

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

The assignment is to be delivered to the submission box on or before Friday 16th October (week 5). Projects handed in after 24th October will **NOT** be corrected.

Assignment worth total of 10% of overall module assessment.

Coursework 1: Table constructed from a half sheet of MDF 10%

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)
15 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.
20 Marks
What factors influenced your choice in joints? Could this jointing process be used with solid wood? Why or why not?
(500 words)

Sketches: Provide sketches on what your table will look like. Provide detailed sketches of component parts, profiled edges, exploded joints etc.
20 Marks

Estimated time scale: Create a chart showing estimated timescale for completion of job. Note you will have a total of 4 weeks in semester 1 at 8 hours per week. Total 32 hours. This should include from: - material breakout and construction of table to assembly.
10 Marks

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 Bespoke Machining & Jointing Techniques. (you have been given this brief already)

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:**Half sheet MDF table****(50 marks)**

Criteria:

Table to be submitted for assessment to room 109 on or before the 2nd of December 2015

The table will be assessed under the following headings:

- Quality of workmanship.
- Attention to 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 MDF and incorporate curved elements. The wall saw in room 3 can be used at the initial breaking out stage. Once material is brought to rooms 109 & 110 only the band saw, wood turning lathe and power tools can be utilised. No screws, nails or other mechanical fixings are allowed.

Part 2 of this assignment is a written report (1000 words approximately + or – 10%) and a hard copy is to be delivered to Room 109 on or before Wednesday 27st of January 2016, with an electronic version emailed to the lecturer. Projects handed in after the 3rd of February will NOT be corrected.

(50 marks)

Report must be typed, formatted as per programme recommendations and spiral bound including standard programme cover sheet.

The report should include the following:

- Cover page, contents page.
- **Introduction:**

- **Analyses / comparison of construction process.**
How did your initial design change, what were the contributing factors?
What machines / power tools were used, what are the health and safety / regulatory implications?

- **Analyses / comparison of material.**
Would your design change depending on the material used? Would the machines / power tools used change? Would the joints change? What are the health and safety implications of using this material?

- **Jigs and templates.**
Discuss the options available when considering the use of templates and jigs in relation to your design and justify your decision.

- **Timeline**
Illustrate on a gantt chart your expected time frame for completion of job. How long did the different aspects take, could they be improved? Did it over run? Why?

- **Cutting list**
Component list and scaled plan of how to best utilise the material in order to reduce waste.

- **Conclusions**
Summary of what you learnt.

- **Reference page, appendix**

NOTE:

- Produce working drawings, sketches and or photos as required, to be included within the report or attached in the appendix.

DT 169 TIMBER PRODUCT TECHNOLOGY

2014 / 2015

Student Name/No _____

Coursework 1: Table constructed from a half sheet of MDF Total 10%

Marking scheme	%	%	Marks awarded
Presentation: formatted as per brief with title page word count(1,100) & contents page.	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	15		
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	20		
Sketches: Progression through design and/ or component parts	20		
Estimated time scale:	10		
Cutting list: Outlined as per standard in table format, with drawing showing layout of components.	10		
Total	100		

Marks available 10% _____ x 0.10 = _____