Timber Product Technology

Course code
DT169

Level 7 Ordinary Degree

First Year

Common Modules		
Jointing Techniques & Furniture 1	10	TIM 1000
Wood Machining 1	10	TIM1001
Applied Geom. & Drawing	5	TIM 1002
Regulatory Environment 1 (Health & Safety 1)	5	TIM 1003
Communications	5	COMM1037
Academic Reporting skills	5	CONS 1014
Timber Industry Maths 1	5	TIM 1004
Joinery 1	5	TIM1005
Materials 1	5	TIM1006
CAD 1	5	CAD 1000

Second Year Strand B Furniture & Joinery Manufacture

COMMON		
MODULES	**ECTS**	**MODULE CODE**
CNC Router & CAD /CAM	5	CAD 2000
Regulatory Environment 2 (Health & Safety 2)	5	TIM2000
Entrepreneurial Studies	5	ENTR 2000
Timber industry Mathematics 2	5	TIM 2001
Materials 2	5	TIM 2002

Second Year Strand B Furniture & Joinery Manufacture

YEAR 2		
MODULES	**ECTS**	**MODULE CODE**
Bespoke Machining Techniques & Furniture 2	10	TIM 2008
Wood Finishing	5	TIM 2006
Principles of Furniture & Joinery Design	10	TIM 2010
3D CAD	5	CAD 2001
Joinery 2	5	TIM 2011

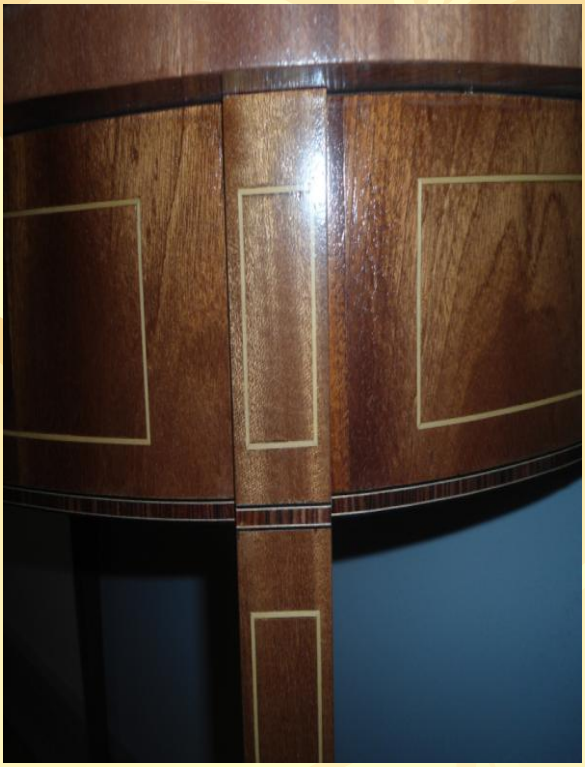
Linked Projects

- To give the full experience from conception of design to drawing, to manufacturing, through to finishing, we have one project that is common across 3 modules and one that is common across 4 modules.
- Bespoke Machining Techniques & Furniture 2
- Wood Finishing
- Principles of Furniture & Joinery Design
- 3D CAD

Bespoke Machining Techniques & Furniture 2

- This is a follow on from the Jointing Techniques module from 1st year.
- You will be using hand held power tools and machinery to create a number of different projects.
- You will be using what you have learned in another module to design your projects, enabling you to concentrate on manufacturing them in this module.
- Assessment: 100% coursework
- 3 projects spread over the whole year

Second year Student's work 2012/13



Half round Table

Second year Student's work 2012/13

Round
Pod Table

Elliptical Pod table

Second Year Student Jordan Kinsella 2013/14 Half sheet Table

Second Year Student Brian O Connor 2013/14 Half sheet Table

Second Year Student Jason Murray 2013/14 Half sheet Table

Second Year Student's work 2013/14
Chess Box

Second Year Student's work 2013/14
Chess Box

Second Year Student's work 2013/14 Games Table

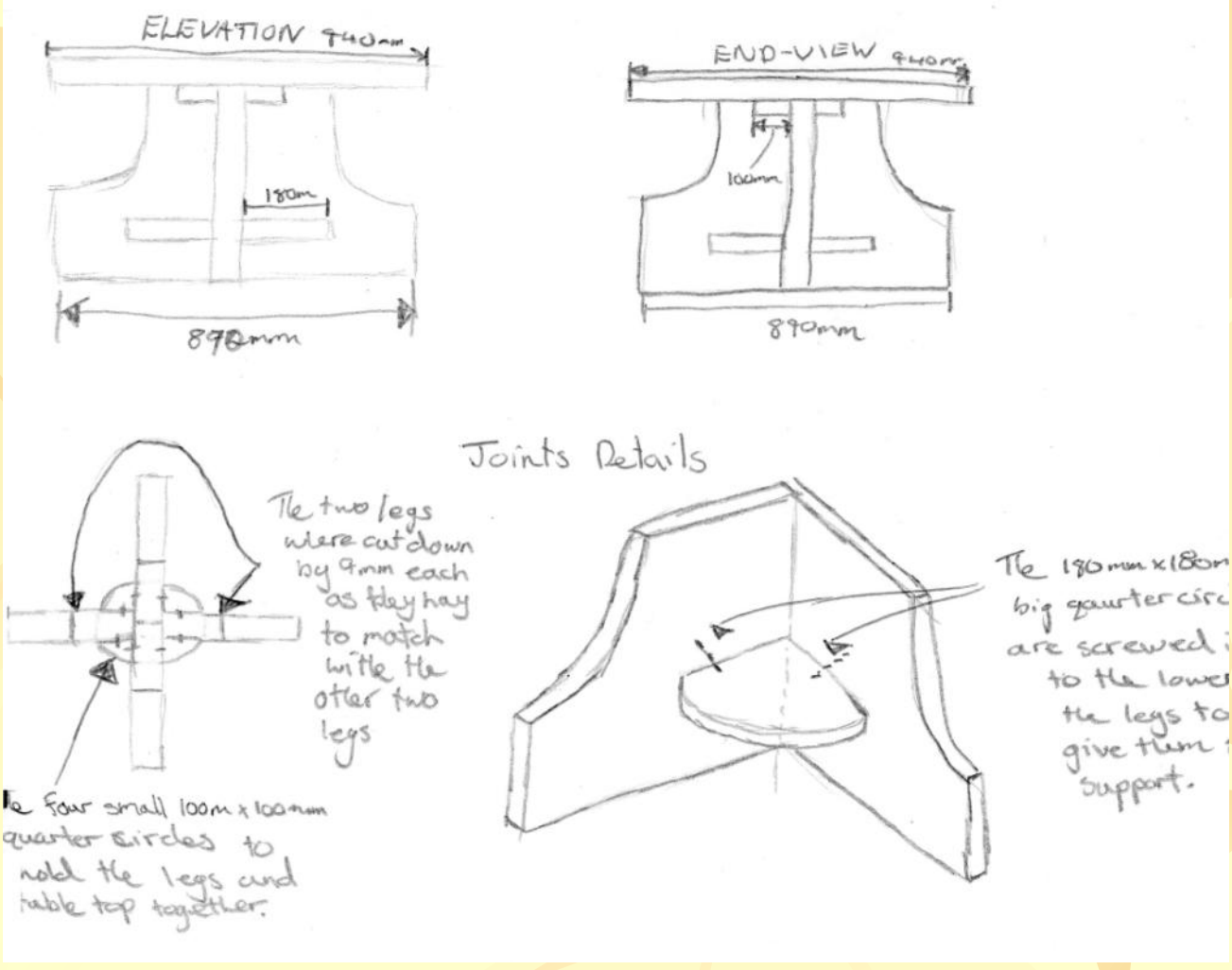
- These tables are at various stages and as of week 8 none were fully assembled.
- If you look around the rooms 109 and 110 you will start to see these tables come together.

Principles of Furniture & Joinery Design

- In this module you will go through the basics principles of designing furniture.
- You will also learn the history of Furniture & Joinery.
- A mix of theory, practical work and field trips are used to give you a varied experience in this module.
- Measure, design, plan and cost a kitchen (including trip to IKEA)
- Assessment: 100% coursework
- A number of projects spread over the whole year.
- Design in this module and realise your designs in another two modules.

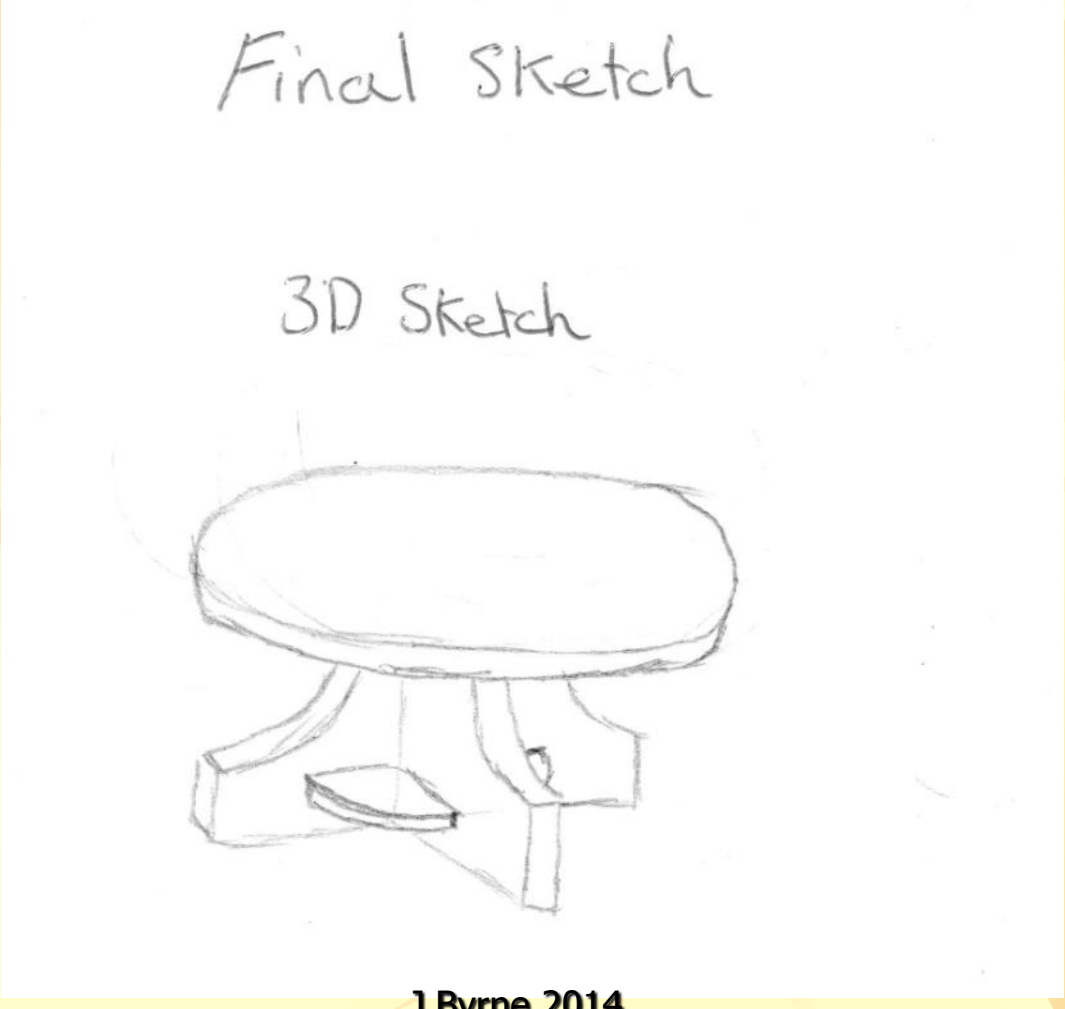
Brian O Connor
Half Sheet Table 2013/14

Project design a table out of a half sheet of MDF. Must be curved work in design



Brian O Connor
Half Sheet table 2013/14

Half sheet table was designed in this module manufactured in BMT&F2 and finished in the Wood Finishing class.



Mark Watson
Half Sheet table 2013/14

Jason Murray
Kitchen Design 2013/14

Gary Weir
Games Table 2013/14

Games table was designed in semester 1 in this module and is being made as a 50% practical project in Semester 2 in the BMT&F2.

It is the main Project for the 3D CAD module.

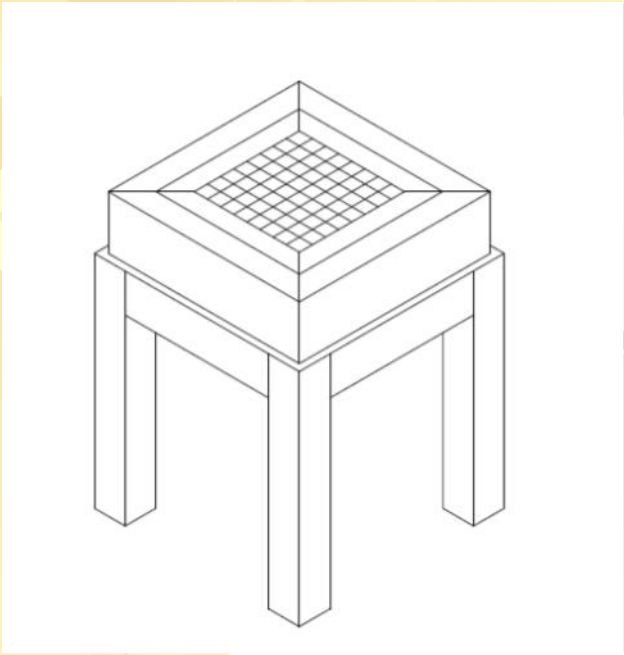
Principles of Furniture & Joinery Design

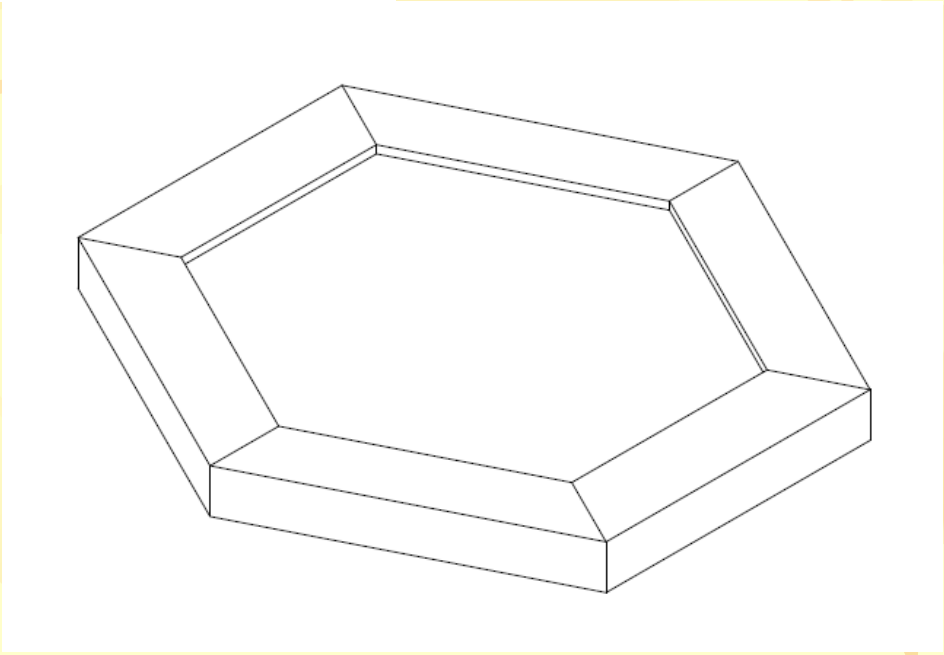
- In semester 2 we concentrate on the history of Furniture & Joinery.
- We also concentrate on dealing with clients and making presentations.
- 25% for Joinery Project
- 25% for research on furniture designer and oral presentation.

3D CAD

- Different methods of 2D CAD.
- Concentrate on making drawing presentations.
- A 1 poster presentation of the Games Table.
- Students have to print, pin up and present their work at various stages thus building student confidence.
- Assessment: 100% coursework
- Projects spread over the whole year

Patrick Young
Games Table 2013/14





Wood Finishing

- In this module you will learn the fundamental principles of surface finishes applied to substrates used in furniture and joinery work.
- You will also learn about the hazards in the use of finishing materials and the safety application requirements related to common finishes used in the furniture and joinery industry.
- You will apply finishes to your furniture and joinery projects.
- Assessment: 100% coursework
- Written and practical

Wood Finishing
Brian O Connor's Table

This table is going to have a gold fleck finish applied to this yellow background

Wood Finishing Nathanael Table

This table is going to be painted to give a marble effect.

Wood Finishing
Wayne Evan's Table

Wood Finishing
Jason Mac Dermot's Table

This table is going to be grained with a mahogany grain effect painted onto it.

Joinery 2

- This module is a follow on from Joinery 1 and it will enable you to further develop the skills required in the manufacture of joinery.

- Assessment: 100% coursework
- Written and Practical

- Students made section of a stairs in full size material using handheld routers & jigs.

Third Year Strand B Furniture & Joinery Manufacture

COMMON MODULES		
MODULES	**ECTS**	**MODULE CODE**
Business & Finance	5	BUS 3000
Marketing	5	RECE1135
Instrumentation (Quality Control)	5	MECH1004
Law	5	LAW 3005

Third Year Strand B Furniture & Joinery Manufacture

STAGE 3		
MODULES	**ECTS**	
Applied Materials Wood Finishing & Reproduction	15	TIM3003
Conservation Studies	5	TIM 3004
Furniture 3	5	TIM 3005
Management Principles For Timber Industry	5	TIM 3006
Joinery 3	5	TIM 3007
Restoration Project	5	TIM 3008

Capstone Projects
Antonio O Connell
Bedemir Table

Capstone Projects

Robin Weinman

Chinese Horseshoe Chair

Capstone Projects

Adrian Finlay

Chippendale Chair

Capstone Projects

Neal Farrell

Duncan Phyfe

Sabre Chair

Capstone Projects

Ian Gillet

Mackintosh Table

Capstone Projects

Paul Brunton

Punkin Settee

Conservation Studies

- Theoretical knowledge relevant to joinery in historic building conservation in Ireland. In addition the principles of restoration and preservation will be explored.
- 100% Coursework

Furniture 3

- To provide the student with the information and skill to produce furniture for the domestic, commercial and bespoke sector of the Industry, incorporating traditional methods and modern techniques of construction.
- The module will also supply information necessary to construct built-in furniture on site and to apply safe working practice in a domestic or commercial environment.
- 100% Coursework

Conservation Studies

- Theoretical knowledge relevant to joinery in historic building conservation in Ireland. In addition the principles of restoration and preservation will be explored.
- 100% Coursework

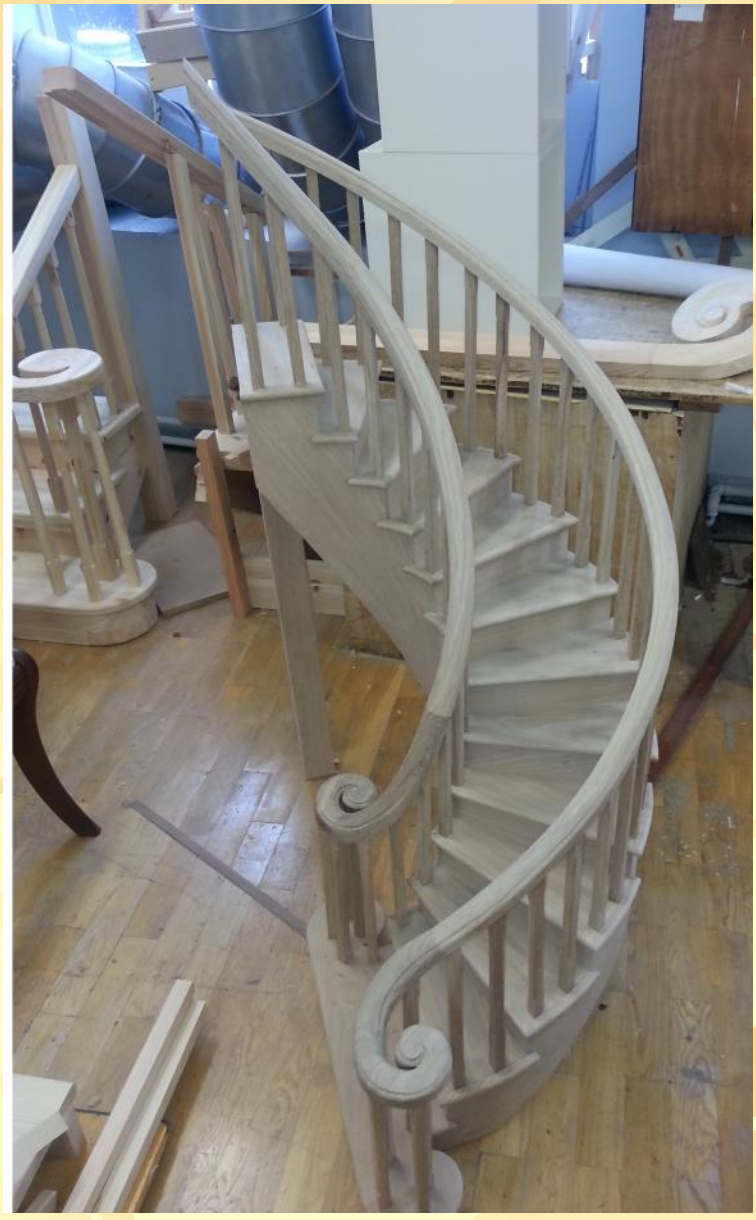
Management Principles For Timber Industry

- This module is designed to provide knowledge and understanding of management principles and function and the skills for organising and controlling on-site activities, workshops and small factories.
- To introduce the principles and function of management.
- To develop management skills.
- To provide an introduction to the knowledge and skills for organising and controlling resources for on-site activities
- Exam 50%
- Coursework 50%

Joinery 3

- To develop a working knowledge, understanding and skills required in the production of traditional and geometric joinery
- The practical element of this class was linked to the Capstone yearlong module.
- Students were asked to research and manufacture a stairs pre 1900.
- 100% Coursework

Joinery 3
Neal Farrell



Joinery 3
Stairs Pre 1900

Restoration

- In this module students engaged in the theoretical and practical elements to effect repairs within the limits and confines of already constructed antique furniture
- 100% Coursework consisting of complete disassemble and reassemble of furniture approximately 50years old.
- To carry out repairs or replace components as required and restore a finish to the item.
- Written element also part of coursework.

Restoration

Photo taken in week 8. Most of the repairs have been carried out at this stage. Complete dismantle Replacing parts effecting repairs to joints and veneers, Sanding and staining.

Students were instructed to take at least 3 photos every day when working on their project to document their progress along the way.

Restoration