



THE FEDERAL UNIVERSITY OF TECHNOLOGY, AKURE

Department of Forestry and Wood Technology

FWT 519–Finished Wood Products.

COURSE PARTICULARS

Course Code: FWT 519

Course Title: Finished Wood Products

No. of Units: 2

Course Duration: One hour of theory and three hours of practicals per week for 15 weeks.

Status: Compulsory

Course Email Address: fwt519@gmail.com

Course Webpage: <http://www.fwt.futa.edu.ng/courseschedule.php?coursecode=FWT%20204>

Prerequisite: NIL

COURSE INSTRUCTORS

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Wood Workshop,

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and

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COURSE DESCRIPTION

This course is an advance studies in furniture design and production (FWT 415) with emphasis on finished wood products covering furniture; fabricated wood houses and other wood products. Students will be required to design a chosen product using design software, write a production brief and produce the item for assessment.

COURSE OBJECTIVES

The objectives of this course are to:

- introduce students to the application of software in product design; and
- provide students with opportunities to develop basic practical skills with respect to material preparation, use of machines/tools and production sequence.

COURSE LEARNING OUTCOMES / COMPETENCIES

Upon successful completion of this course, the student will be able to:

(Knowledge based)

- explain the requirements of furniture design
- classify and explain the function of different materials and tools in furniture production;
- understand purpose and functions body-size measurements in design
- carry out simple furniture design and prepare cutting list for estimate preparation and machining;

(Skills)

- use software to design furniture:
 - Auto-cad;
 - Pro100 furniture design and
 - Sweet-home software
- Use machine to prepare timber.
- Produce different types of wood joints;

GRADING SYSTEM FOR THE COURSE

This course will be graded as follows:

Practicals	20%
Assignments	10
Test(s)	10%
<u>Final Examination</u>	<u>60%</u>
<u>TOTAL</u>	<u>100%</u>

GENERAL INSTRUCTIONS

Attendance: It is expected that every student will be in class for lectures and also participate in all practical exercises. Attendance records will be kept and used to determine each person's qualification to sit for the final examination. In case of illness or other unavoidable cause of absence, the student must communicate as soon as possible with any of the instructors, indicating the reason for the absence.

Academic Integrity: Violations of academic integrity, including dishonesty in assignments, examinations, or other academic performances are prohibited. You are not allowed to make copies of another person's work and submit it as your own; that is plagiarism. All cases of academic dishonesty will be reported to the University Management for appropriate sanctions in accordance with the guidelines for handling students' misconduct as spelt out in the Students' Handbook.

Assignments and Group Work: Students are expected to submit assignments as scheduled. Failure to submit an assignment as at when due will earn zero for the assignment. Only under extenuating circumstances, for which a student has notified any of the instructors in advance, will late submission of assignments be permitted.

Code of Conduct in Lecture Rooms and Laboratories: Students should turn off their cell phones during lectures. Students are prohibited from engaging in other activities (such as texting, watching videos, etc.) during lectures. Food and drinks are not permitted in the laboratories.

READING LIST

Recommended Tests

1. Barry A. Richard (1976) Wood in construction the construction press Ltd, Lancaster GB.
2. Terence Conran (1978) the house Book Mitchell publisher Ltd Shaftesbury London
3. Leonard Koel (1985) Carpentry American technical Publishers, the Homewood, Illinois USA
4. Elmer W. Sundberg (1979) Building Trade Blueprint reading second edition. American Technical Society Chicago
5. Kathie Robitz (2006) Design ideas for home decorating www.creativehomeowner.com.

Legend

- 1- Available in the University Library
- 2- Available in Departmental/School Libraries
- 3- Available on the Internet.
- 4- Available as Personal Collection
- 5- Available in local bookshops.

COURSE OUTLINE

Week	Topic	Remarks
1	Classification of finished wood products: Finished and semi-finished	During this first class, students will be sanitised to see furniture production as a self reliant venture through which one can earn a living. Classes of finished wood products will be discussed.
2	Classification by industrial grouping	Industrial grouping: Sawmill products furniture industry, casket, carpentry and joinery products
3	Market wood sizes specific uses: Prefabricated building and furniture construction.	Students will be introduced to market sizes of wood. They will conduct market survey to familiarise them with how to purchase wood and non-wood materials.
4	Windows and door frame manufacturing	Objective of windows and doors in building will be taught and factors to be considered when designing windows and doors
5	Prefabricated wood houses: Fabrication systems: pre-cut, modular, large size panel and volume element system	Students will be taught the advantage of prefabricated wood houses over the use of sandcrete block: Faster and easier; stable in areas of geographical earth movement
MID-SEMESTER TEST		
6	Methods of construction: Balloon frame and platform method	Emphasis will be on practical work as students will be asked to make models of building parts
7	General requirements and material specification	Site/ land preparation, protection of wood against termites attack and legal infestation during construction
8 & 9	Wall panels	Students will be introduced to the use of sweet home design software/ home furniture layout.
10	Roof	
11	Stairs	Practical work will be carried out
12	Technical articles: Drams & dram making	All materials use will be taught
13	Wooden boxes & pencil	Pencil making process will be discussed
14	Transportation facilities boxes, crates and pallets	The use of wood in making transportation facilities and choice of wood
15	Revision	