

L J UNIVERSITY
L J SCHOOL OF DESIGN
Syllabus for Bachelors of Design
Second Year I Semester 4

CODE	SUBJECT	CREDIT
10180402	Furniture & ergonomics II	4
AIM		
	To familiarize the students of Interior Design on materials used in furniture and its construction and detailing.	
CONTENT:-		
	<p>INTRODUCTION TO WOOD</p> <ul style="list-style-type: none"> Wood as a building material: Identification, selection, application, types of wood, commercial Classification, nomenclature, structure Anatomy and Ultra structure, Conversion figure and natural defects, availability of wood products, wood based panels such as plywood , MDF, HDF, Particle board , pre laminated boards etc . <p>THE BASICS OF FURNITURE CONSTRUCTION & TOOLS</p> <ul style="list-style-type: none"> Measurement and measurement systems, Furniture Construction: Drawers, Cadenza, dining chairs, sofa, settee, cots detail. Preparation for finishing, Furniture Materials Specifying timber, finishes etc . Detailed construction drawings & explaining construction and material finishes. <p>PLYWOOD CONSTRUCTION TECHNIQUES</p> <ul style="list-style-type: none"> Plywood as a building material, Layout techniques and machining plans. Fabrication techniques - stapling, gluing. Furniture Joinery - screw joinery, nail joinery, Mortise & tenon joints, Dovetail joints, Dowel joints, Edge joints. <p>MODULAR KITCHENS</p> <ul style="list-style-type: none"> Modular kitchens, components basis of Construction involving, layouts, carcass, hardware selection, fixing details finishes and special types such as tall units, grain trolleys, and carousels fold outs etc. A detailed project involving the design of a small kitchen using modular components. <p>FURNITURE MODEL MAKING</p> <ul style="list-style-type: none"> Preparation of block models of furniture using wood, boards, leather, fabric, thermacol, clay, soap/wax etc. 	
METHODOLOGY:-		
	<ul style="list-style-type: none"> During this semester students will focus on the craft of the Furniture - Maker, utilizing state-of-the-industry procedures and equipment. Emphasis will be on wood and wooden products as a construction medium 	
REFERENCE BOOK:-		
	<ul style="list-style-type: none"> S. C. Rangwala - Engineering materials - Charotar Publishing, Anand Francis D. K. Ching - Building Construction Illustrated, VNR, 1975, W.B.Mckay –Building construction Vol1 –Longmans, UK 1981 .W.B.Mckay –Building construction Vol 3 –Longmans, UK 1981 	