

L J UNIVERSITY
L J SCHOOL OF DESIGN
 Syllabus for Bachelors of Design
 First Year I Semester 2

CODE	SUBJECT	CREDIT
10180204	Material and Technology II	2
AIM		
	To understand advance building materials and construction techniques for building and composite architecture	
CONTENT:-		
	<ul style="list-style-type: none"> • Openings(doors and windows) • Types of lintel • Arches • Internal finishes • Material : Wood (market form of wood and wood based products) • Construction: <ol style="list-style-type: none"> 1. Terms 2. Principles of Joinery 3. Classification of joints 4. Widening joints 5. Angle and Oblique joints 6. Fastenings 7. Tools uses • Wooden (floor and roof) system • Understanding physical and behavioural properties, method of application, different construction techniques and criteria for selection of materials and design aspects for different types of material 	
METHODOLOGY:-		
	<ul style="list-style-type: none"> • Lectures based on theory and class given assignments, practice questions and sketching and drawings, Case Studies and practices, site visits to study material, model making etc.. 	
REFERENCE BOOK:-		
	<ul style="list-style-type: none"> • Engineering Materials – S.C. Rangwala • Building Materials – B.C.Punmaia • Construction of building – Vol 2 – R.Barry • Building construction metric vol 1 – W.B.Mckay • Building Construction – B.C.Punamiya • Buidling materials and components – CBRI Roorkee • Building construction Illustrated by – Fransis D.K.Ching • Building Materials –S.K. Duggal • Building Construction Handbook- Roy Chudley and Roger Greeno 	