

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

CODE	SUBJECT	CREDIT
10180403	Material & Technology IV	2
AIM		
	To Understand, staircase fundamentals, exploration With different materials, - Understand-mezzanine floor construction - False Ceiling, Partitions and Panelling, false floor	
CONTENT:-		
	<p>STAIRCASE:</p> <ul style="list-style-type: none"> Staircase basic terminology, Fundamentals of stair design, Classification of stairs based on material geometry etc. Stair In various materials like concrete, wooden steel and composite steal case Handrails fixing, Latest trends In finishes of Staircases and Fixing details <p>MEZZANINE FLOOR:</p> <ul style="list-style-type: none"> Functional requirement to create floor space, Construction of mezzanine floor with different structural and finishing materials <p>FALSE CEILING, PARTITIONS & PANELLING, FALSE FLOOR:</p> <ul style="list-style-type: none"> Fundamentals, applications, construction and detailing, Exploration in different materials and Latest trends 	
METHODOLOGY:-		
	<ul style="list-style-type: none"> Interactive discussions and presentations on topics, Assignments based on theory portions, Live case study to understand systems 	
REFERENCE BOOK:-		
	<ul style="list-style-type: none"> Ash, Ahmed. Materials science in construction: an introduction. London: Taylor & Francis, 2015 Agrawal, B. K.. Introduction to Engineering Materials. New Delhi: Tata McGraw Hill Education Ltd.,2013. Bhavikatti, S. S.. Materials of Construction Vol - 2. New Delhi: I. K. International Publishing House Pvt. Ltd., 2014 Charleson, Andrew. Structure as architecture: Source book for architects and structural engineers London: Taylor & Francis, 2015 Gambhir, M. L.. Building Materials: Products, Properties and Systems. New Delhi: Tata McGraw Hill Education Private Limited, 2011 	