

**GUJARAT TECHNOLOGICAL**  
**UNIVERSITY BRANCH NAME: B.ID.**  
**SUBJECT NAME: WOOD, BAMBOO AND CANE WORKSHOP**  
**SUBJECT CODE: 2X25107**  
**1st Year: Semester: 2**

**Emphasis:**

- Studying and comparing characteristics of wood, cane and bamboo such as structure, properties of various types, textures, and its availability.
- Tools used for working: hand tools and machine tools.
- Principles of woodworking machinery.
- Precautions for safety in the workshop.
- Working with craftsmen.

**Teaching and Assessment Scheme:**

Teaching Scheme			Credits	Examination Marks				Total Marks	University Exam Type
Lectures	Tutorials	Studio		External exam		Internal exam			
			(ESE) Practical	(ESE) Viva	(PA) Practical	(PA)Viva			
0	0	2	2	NA	NA	60	40	100	Viva

**Content:**

Sr. No	Content	Total Hours*	% Weightage*
1	<b>Unit 1:</b> Cutting the wood, bamboo and cane with different types of tools and study of its impressions and also to understand the feeling of the materials	8	30
2	<b>Unit 2 :</b> Making various types of wood joints, bamboo and cane joints to examine its strength and find out its use in building construction and furniture industry	10	40
3	<b>Unit 3 :</b> Cutting and joining of boards of various kind	8	20
4	<b>Unit 4:</b> Finishes, forms, surfaces, textures and patterns of various kinds and materials studied.	6	10

\*: indicative

**Projects:**

- Making objects with wood, bamboo, cane – explore structural systems, forms, surfaces, textures, and patterns.

**References:**

- Harriet Goldstein - Art in Everyday Life
- W. L. Mackey - Mackay W. L. – Building Construction – Volume – I & II
- David Farrelly - the book of bamboo
- Hideo Satao – The complete Japanese joinery
- M. P. Rajan-
- Veenu Kale- VeenuBharti

\*- this is suggestive for common purpose. Faculty may decide on this, considering student group and institution philosophy.

