



Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore
Shri Vaishnav Institute of Technology and Science
Choice Based Credit System (CBCS) Scheme in light of NEP-2020
Generic Elective (Even Semester)
(2021-2025)

COURSE CODE	CATEGORY	COURSE NAME	TEACHING & EVALUATION SCHEME									
			THEORY			PRACTICAL			L	T	P	CREDITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*					
BTMEGE22	GE	FITTING AND CARPENTRY SKILLS	60	20	20	0	0	3	0	0	3	

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit;
***Teacher Assessment** shall be based following components: Quiz/Assignment/Project/Participation in Class, given that no component shall exceed more than 10 marks.

Course Objectives:-

The primary objective of the course is to describe and develop knowledge of (A) wood and timber (B) different carpentry tools and their application (C) different types of carpentry joints, advantages and disadvantages (D) fitting tools, operation and safety.

Course Outcomes: -

After completion of this course:

1. Students will be able to understand & describe wood, plywood, and timbre.
2. Students will be able to understand & describe carpentry tools, operations & applications.
3. Students will be able to understand & describe different wood joints and application.
4. Students will be able to understand fitting tool, operations and safety.

Syllabus

Unit-I

(9 Hrs)

Introduction of Carpentry:

Introduction, importance of carpentry, Types of wood, Plywood, Timber, Types of Timber, Advantage of Timber, Structure of wood, Selection of Timber, Seasoning of timber, Methods of seasoning, Common Defects in Timber, Classification, and conversion of wood.

Unit-II

(9 Hrs)

Carpentry Tools:

Marking and measuring tools, boring tools, cutting tools, striking tools, planning tools, holding and miscellaneous tools, Carpentry power tools.

Unit-III

(9 Hrs)

Carpentry Applications:

Carpentry joints; Butt joints, Lap joints, Bridle joints, Mortise and Tenon joints, Dovetail joints, miter joints, Dowel joints, advantages, and disadvantages of wooden joints.

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Unit-IV

(9 Hrs)

Fitting Tools:

Introduction of fitting shop, various types of fitting tools; holding devices, marking and measuring tools, cutting tools, striking tools, finishing tools, miscellaneous tools etc. tools materials and specifications

Unit-V

(9 Hrs)

Fitting Operations and Safety:

Fitting operations; such as chipping, filing, scraping, grinding, sawing, marking, drilling, tapping etc. Square fitting, V fitting, male-female joints and safety precautions

Text and Reference Books:

1. "Basic Carpentry" by Better Homes & Gardens, Meredith Books, 2010.
2. "Workshop Technology" by W. A. J. Chapman part I, II & III, 5th ed., 2001.
3. "Manufacturing Technology" by P. N. Rao, Vol. 1 and 2, 2018.
4. "Elements of Workshop Technology" by Hazra Chaudhary Vol I, II, 12th ed., 2007.
5. "Production Technology" by R.K. Jain and S.C. Gupta, Khanna Pub. 16th Ed., 2001.

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