



Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore
Shri Vaishnav Institute of Technology and Science
Choice Based Credit System (CBCS) in Light of NEP-2020
Vocational Course

| COURSE CODE | CATE-GORY | 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* | | | | |
| VUME402 | VC | Carpentry and Woodworking | 0 | 0 | 0 | 60 | 40 | 2 | 0 | 4 | 4 |

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:

1. To introduce students to the fundamentals of carpentry and woodworking techniques.
2. To develop hands-on skills in cutting, shaping, and assembling wood components.
3. To ensure students understand safety protocols and proper tool handling practices.
4. To enable students to create basic wooden structures and repair works independently.

Course Outcomes:

1. Demonstrate the ability to identify and use common carpentry tools effectively.
2. Apply safety measures and proper handling techniques during woodworking operations.
3. Construct basic wooden objects such as frames, boxes, and shelves.

Syllabus:

Unit 1: Introduction to Carpentry Tools

- Classification and Types of Carpentry Tools
- Identification and Uses: Saws, Planes, Chisels, Clamps, etc.
- Materials and Ergonomics of Tools

Unit 2: Measurement and Marking Techniques

- Measuring Tools: Tapes, Scales, Squares
- Marking Tools: Marking Gauges, Pencils, Scribes
- Precision in Measurement and Marking

Unit 3: Cutting, Shaping, and Joining Techniques

- Cutting Tools: Saws, Chisels, Rasps
- Shaping Tools: Planes, Files, Sanders
- Joining Techniques: Nailing, Screwing, Gluing, Doweling

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Unit 4: Finishing and Polishing

- Sanding and Smoothing Surfaces
- Applying Paints, Varnishes, and Sealants
- Decorative Techniques and Finishes

Unit 5: Safety Practices and Maintenance

- Safety Procedures in Handling Tools and Materials
- Maintenance and Storage of Tools
- First Aid for Woodworking Injuries

Reference Books:

1. "Carpentry" by Leonard Koel.
2. "Woodworking Basics" by Peter Korn.
3. "The Complete Manual of Woodworking" by Albert Jackson and David Day.
4. "Essential Woodworking Hand Tools" by Paul Sellers.
5. "Woodworking for Beginners" by Charles Hayward.

List of Practical's:

- Hands-on practice in identifying and naming tools.
- Hands-on practice with measurement and marking on wood.
- Constructing wooden joints and assembling parts.
- Surface preparation and finishing wooden objects.
- Demonstration of safety practices and maintenance tips.

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