

 Estd. 1962 "A++" Accredited by NAAC (2021) With CGPA 3.52	SHIVAJI UNIVERSITY, KOLHAPUR 416 004, MAHARASHTRA PHONE : EPABX - 2609000, BOS Section - 0231-2609094, 2609487 Web : www.unishivaji.ac.in Email: bos@unishivaji.ac.in शिवाजी विद्यापीठ, कोल्हापूर, ४१६ ००४, महाराष्ट्र दूरध्वनी - इपीबीएक्स - २०६०९०००, अभ्यासमंडळे विभाग : ०२३१- २६०९०९४, २६०९४८७ वेबसाईट : www.unishivaji.ac.in ईमेल : bos@unishivaji.ac.in	 
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Ref.: SU/BOS /Voc. / 222

Date: 06 - 07- 2026

The Principal,
 All concerned Affiliated Colleges /Institutions,
 Shivaji University, Kolhapur

**Subject : Regarding Syllabi of B. Voc. Part II Programme under the Faculty of
 Inter- Disciplinary Studies as per National Education Policy 2020 (2.0)**

Sir/Madam,

With reference to the subject, mentioned above, I am directed to inform you that the university authorities have accepted and granted approval to the syllabi of following B. Voc. Part II Programme under the Faculty of Inter-Disciplinary Studies, as per National Education Policy 2020 (2.0).

1	B. Voc. Food Processing Technology	6	B Voc. Tourism And Service Industry
2	B. Voc Sustainable Agriculture	7	B. Voc. Building Technology & Interior Designing
3	B. Voc. Automobile	8	B. Voc. Printing And Publishing
4	B. Voc. Graphic & Design	9	B. Voc. Nutrition And Dietetics
5	B. Voc. Nursing And Hospital Management	10	B. Voc. Sustainable Agriculture Management

This syllabus (nature of question paper and equivalence etc) shall be implemented from the academic year **2026-2027** onwards. A soft copy containing the syllabus is attached herewith and it is also available on university website www.unishivaji.ac.in NEP-2020 (Online Syllabus).

The question papers on the pre-revised syllabi of above-mentioned programmes will be set for the examinations to be held in October /November 2026 & March/April 2027. These chances are available for repeater students, if any.

You are therefore, requested to bring this to the notice of all students and teachers concerned.

Thanking you,

Yours faithfully



Dy Registrar

Encl. : as above

Copy to: For information and necessary action

1	The I/C Dean, Faculty of IDS	7	P.G.Admission Section
2	Director, Board of Examination and Evaluation	8	Affiliation T. 1 & T. 2 Section
3	The Chairman, Respective Board of Studies	9	Appointment A & B Section
4	All On Exam Section	10	P.G.Seminar Section
5	Eligibility Section	11	I. T. Cell
6	Computer Centre	12	Internal Quality Assurance Cell (IQAC)

SHIVAJI UNIVERSITY, KOLHAPUR



Accredited By NAAC with 'A++' Grade with CGPA 3.52 Structure and

Syllabus in Accordance with

National Education Policy- 2020 With Multiple Entry and Multiple Exit

Faculty of Interdisciplinary Studies Syllabus for

B. Voc.-Part II NEP-2.0

Building Technology & Interior Designing

Revised Syllabus to be implemented from Academic Year 2026-2027

onwards

(Subject to the modifications that will be made from time to time)

SHIVAJI UNIVERSITY, KOLHAPUR

Revised Syllabus for the Bachelor of Vocation in Building Technology & Interior

Designing (As per NEP- 2.0)

Applicable from the Academic Year 2026 – 27

1. **Title:** B. Voc. II Building Technology & Interior Designing Degree Programme, Shivaji University, Kolhapur Revised Syllabus as per NEP – 2.0
2. **Faculty:** Faculty of Food Processing Technology.
3. **Year of Implementation:** From June 2026

Preamble (Building Technology & Interior Designing): Building Technology & Interior Designing is an interdisciplinary field that combines principles of civil engineering, architecture, and design to create functional, safe, and aesthetically pleasing built environments. With rapid urbanization and increasing demand for modern infrastructure and innovative interior spaces, this course equips students with the knowledge and practical skills required for careers in construction and interior design industries.

The curriculum is designed to provide a strong foundation in building materials, construction techniques, structural basics, and interior design principles. It emphasizes planning, drafting, estimation, and execution of building projects along with creative aspects of interior space design.

Students gain hands-on experience in areas such as construction technology, building services, CAD drafting, space planning, furniture design, lighting, color theory, and sustainable building practices.

The course also focuses on safety standards, quality control, project management, and relevant building regulations. Students develop the ability to design, plan, and manage residential, commercial, and industrial spaces effectively.

This program prepares students for careers in construction companies, architectural firms, interior design studios, project management, and entrepreneurship.

4. Program Outcomes:

- **PO-1:** Students will gain knowledge of building materials, construction techniques, and interior design principles.
- **PO-2:** Students will be able to identify and solve problems related to construction, design, and execution.
- **PO-3:** Students will learn to use tools, equipment, and software like CAD safely and effectively.
- **PO-4:** Students will develop teamwork and communication skills for construction and design projects.
- **PO-5:** Students will understand building regulations, safety standards, and quality control measures.
- **PO-6:** Students will be encouraged to start their own business in construction or interior designing.

5. Course Outcomes (CO):

- **CO-1:** Students will understand building construction processes, materials, and techniques.
- **CO-2:** Students will be able to prepare building drawings, plans, and layouts using manual and CAD methods.
- **CO-3:** Students will understand principles of interior design including space planning, color, lighting, and furniture design.
- **CO-4:** Students will be able to prepare cost estimation and material quantity for construction projects.
- **CO-5:** Students will understand basic structural concepts and building services like plumbing and electrical systems.
- **CO-6:** Students will apply sustainable and eco-friendly construction and interior practices.
- **CO-7:** Students will follow safety practices and quality standards in construction and interior works.

1. Objectives of a Bachelor of Vocation (B. Voc.) in Building Technology & Interior Designing Program include:

- Understand fundamental principles of building construction and interior design
- Enhance employability and bridge the gap between education and industry
- Gain practical knowledge through site work and lab experience
- Develop skills in planning, designing, and executing projects
- Learn modern tools like AutoCAD and other design software
- Apply theoretical knowledge to real-world construction and interior projects
- Develop problem-solving and project management skills
- Promote entrepreneurship in construction and interior design sectors

1. Duration of the Course: The B. Voc. II Course (Building Technology & Interior Designing) (Level 5.0) will be of

Two Semesters (Sem. II and Sem IV).

2. Medium of Instruction: English

3. Eligibility for Admission to B. Voc. Part II (Level 5.0):

- i. The students passing or ATKT the B. Voc. Part-I (or Undergraduate Certificate in Building Technology & Interior Designing) shall be allowed to enter upon the B. Voc. Part-II (or Undergraduate Diploma in Building Technology & Interior Designing).

OR

- ii. An Examination of any other Statutory University or an examining Body recognized as equivalent there to.

4. Scheme of Teaching and Examination:

- I. Each theory course paper constitutes of 4-5 units, which require 30 hours of teaching lectures and there shall be two lectures per theory (2 Cr) course per week.
- II. B. Voc. II Building Technology & Interior Designing Course will be of 44 Credits (1100 marks).
- III. Examination of each **theory course** shall be of **50 marks** (30 university examination + 20 internal assessment). University examination of 30 marks (1.5 hours' duration) will be conducted at the end of each Semester. Internal assessment of 20 marks will be done before the semester examination during each semester.
- IV. Examination for a practical course shall be 50 marks per semester.
- V. Pattern and Nature, marking scheme for theory and Practical Examination for Major Specific SEC and VSC courses are included in syllabus.
- VI. Question papers will be set in the view of the entire syllabus and preferably covering each unit of the syllabus. Weightage should be provided for each unit as per the hours allotted for teaching.

5. Structure of course: Given in Framework Chart

6. Standard of Passing: The standard of passing shall be as per the following table.

	Semester End Exam	Internal Assessment	Course Exam (Total)
Maximum Marks	30	20	50
Minimum Marks required for passing	12	8	20

- i. There shall be a separate head of passing for semester-end examination and internal examination.
- ii. Minimum 20 marks out of 50 are required for passing of practical examination of each course.
- iii. **Assessment:** The NEP 2020 emphasizes upon formative and continuous assessment rather than summative assessment. Therefore, the scheme of assessment should have components of these two types of assessments. Assessment has to have correlations with the learning outcomes that are to be achieved by a student after completion of the course
 - a) **Continuous Assessment:** Assignments, projects, presentations, seminars and quizzes
 - b) **Examinations:** Midterm, finals, or comprehensive exams.
 - c) **Research Projects/Dissertation/Thesis:** Evaluated through submission and viva-voce
 - d) **Grading System:** Standardized letter grades, percentages, or CGPA

Letter Grades and Grade Points:

The Semester Grade Point Average (SGPA) is computed from the grades as a measure of the student's performance in a given semester. The SGPA is based on the grades of the current term, while the Cumulative GPA (CGPA) is based on the grades in all courses taken after joining the programme of study. The HEIs may also mention marks obtained in each course and a weighted average of marks based on marks obtained in all the semesters taken together for the benefit of students.

Computation of SGPA and CGPA: UGC recommends the following procedure to compute the Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA)

Letter Grade	Grade Point
O (Outstanding)	10
A+ (Excellent)	9
A (Very Good)	8
B+ (Good)	7
B (Above Average)	6
C (Average)	5
P (Pass)	4
F (Fail)	0
Ab (Absent)	0

1. The SGPA is the ratio of the sum of the product of the number of credits with the grade points scored by a

student in all the courses taken by a student and the sum of the number of credits of all the courses undergone by a student, i.e.

$$\text{SGPA (S}_i\text{)} = \frac{\sum (C_{ix}G_i)}{\sum C_i}$$

Where C_i is the number of credits of the i^{th} course and G_i is the grade point scored by the student in the i^{th} course.

2. The Cumulative Grade Point Average (CGPA) is also calculated in the same manner taking into account all the courses undergone by a student over all the semesters of a programme, i.e.

$$\text{CGPA} = \frac{\sum (C_{ix}S_i)}{\sum C_i}$$

Where S_i is the SGPA of the i^{th} semester and C_i is the total number of credits in that.

7. Nature of Question paper and scheme of marking:

- Theory question paper: Maximum marks -30
- Total No. of questions – 3
- All questions are compulsory.
- Question No.1 is MCQ type (6 Marks).
- Question number 2 is long answer type question Carries 12 marks.
- Question number 3 is short answer type question carries 12 marks. (Nature of question paper is provided at the end of syllabus.)

SHIVAJI UNIVERSITY, KOLHAPUR NEP 2.0: Credit Framework for B. Voc. Undergraduate (UG) Programme under Faculty of Interdisciplinary Studies B. Voc. Building Technology & Interior Designing										
Level	Semester	COURSES			OE	VSC/SEC	AEC/VEC/IKS	OJT/FP/CEP/ CC/ RP	Total Credit	Degree/Cum/Cr. MEME
		Course –I	Course -II	Course -III			IKS			
4.5	I	DSC-I (2) DSC-II (2) DSC P-I (2)	DSC-I (2) DSC-II (2) DSC P-I (2)	DSC-I (2) DSC-II (2) DSC P-I (2)	OE -1 (T/P) (2)	-	IKS-I (2) Introduction to IKS	-	22	UG Certificate 44
	II	DSC-III (2) DSC-IV (2) DSC P-II (2)	DSC – III (2) DSC-IV (2) DSC P-II (2)	DSC-III (2) DSC-IV (2) DSC P-II (2)	OE-2 (T/P) (2)	-	VEC-I (2) (Democracy, Election and constitution)	-	22	
Credits		8(T)+4(P)= 12	8(T)+4(P)= 12	8(T)+4(P)=12	2+2 =4	-	2 + 2= 4	-	44	Exit Option: 4 Credits NSQF/Internship/Skill Courses
		MAJOR		MINOR						
5.0	III	Major-V (2) Major-VI (2) Major P-III (2)	-	Minor-V (2) Minor-VI (2) Minor P-III (2)	OE -3 (T/P) (2)	VSC- I (2) (P) (Major Specific) SEC-I (2) (T/P)	AEC-I (2) English	CC-I (2)	22	UG Diploma 88
	IV	Major-VII (2) Major-VIII (2) Major P-IV (2)	-	Minor-VII (2) Minor-VIII (2) Minor P-IV (2)	OE-4 (T/P) (2)	SEC-II (2) (T/P)	AEC-II (2) English VEC-II (2) (Environmental Studies)	CEP-I (2)	22	
Credits		8(T)+4(P)= 12	-	8(T)+4(P)=12	2+2= 4 (T/P)	4 (T/P) +2 (P)=6	2 + 4= 6	2 + 2= 4	44	Exit Option: 4 Credits NSQF/Internship/Skill Courses
5.5	V	Major-IX (2) Major-X (2) Major P-V (4)	Major-I(ELEC) (2) Major P-I (ELEC) (2)	-	OE-5 (T/P) (2)	VSC-II (2) (Major Specific) (P)	AEC-III (2) English	OJT (4)	22	UG Degree 132
	VI	Major-XI (2) Major-XII (2) Major P-VI (4)	Major-II (ELEC) (2) Major P-II (ELEC) (2)	-	-	VSC-III (2) (P) (Major Specific) SEC-III (2) (T/P)	AEC-III (2) English IKS-2(Major Specific) (2)	FP (2)	22	
Credits		8 (T) + 8 (P) = 16	4 (T) + 4 (P) = 8	-	2 (T/P)	2 (T/P) +4 (P) = 6	2 + 4 = 6	4+2 = 6	44	
Total Credits		40+20=60		24	10	12	16	10	132	Exit Option

B. Voc. Building Technology & Interior Designing

Titles of Papers

Sem	Course	Code	Paper No.	Title of Paper
III	I	Major-V	B. Voc. Paper- V	Building Construction - I
		Major-VI	B. Voc. Paper- VI	Building Services - I
		Major P-III	B. Voc. Practical –III	Based upon Major-V and Major-VI
	II	Minor-V	B. Voc. Paper- V	Interior Materials - I
		Minor-VI	B. Voc. Paper- VI	Commercial Interior Design -I
		Minor-P-III	B. Voc. Practical –III	Based upon Minor-V and Minor-VI
	OE -III	Open Elective	Practical (2)	Colour Theory
	VSC-I	Vocational Skill Courses	Practical (2)	Construction Skill Courses
	SEC-I	Skill Enhancement Courses	Practical (2)	Advanced AutoCAD Drafting
	AEC-I English	Ability Enhancement Courses	Theory (2)	English
	CC-I	Co-Curricular Courses	2 Cr	Yoga Education
IV	I	Major-VII	B. Voc. Paper- VII	Building Construction - II
		Major-VIII	B. Voc. Paper- VIII	Building Services - II
		Major P-IV	B. Voc. Practical –IV	Based upon Major-VII and Major-VIII
	II	Minor-VII	B. Voc. Paper- VII	Interior Materials - II
		Minor-VIII	B. Voc. Paper- VIII	Commercial Interior Design -II
		Minor-P-IV	B. Voc. Practical –IV	Based upon Minor-VII and Minor-VIII
	OE -IV	Open Elective	Practical (2)	SketchUp (3D Modeling)
	SEC-II	Skill Enhancement Courses	Practical (2)	Space Planning Techniques
	AEC-II English	Ability Enhancement Courses	Theory (2)	English
	VEC-II	Value Education Courses	Theory (2)	Environmental Studies
	CEP-I	Community Engagement Programme	Theory (2)	Community Engagement Programme in Building Technology & Interior Designing

• Student Contact Hrs. Per week: 36 hrs.	• Total marks for B. Voc.- UG Diploma: 1100
• Theory and Practical Lectures: 60 Minutes Each	• Total credits for B. Voc.- UG Diploma: 44
• DSC: Discipline Specific Course	
• MAJOR: Mandatory/Elective	
• MINOR: Course may be from different disciplines of same faculty of DSC Major.	
• OE (Open Elective): Chosen compulsorily from faculty other than that of the Major.	
• VSC/SEC: Vocational Skill Courses (MAJOR related)/Skill Enhancement Courses	
• AEC/ VEC / IKS: Ability Enhancement Courses (English, Modern Indian Language)/Value Education Courses/ Indian Knowledge System (Generic & Specific))	
• OJT/FP/RP/CEP/CC: On-Job Training (Internship/Apprenticeship) / Field Project (Major related)/ Research Projects (Major related) Community Engagement (Major related)/ Co-Curricular Courses (CC) such as Health & Wellness, Yoga Education, Sport, and Fitness, Cultural activities, NSS/NCC and Fine /applied/visual/performing Arts / Vivek Vahini etc.	

Eligibility for Admission:

i. The students passing or ATKT the B. Voc. Part-I (or Undergraduate Certificate in Food Processing Technology) shall be allowed to enter upon the B. Voc. Part-II (or Undergraduate Diploma in Food Processing Technology).

OR

ii. An Examination of any other Statutory University or an examining Body recognized as equivalent there to.

SHIVAJI UNIVERSITY, KOLHAPUR
B. Voc. Part II (Food Processing Technology) NEP 2.0 Syllabus with effect from June 2026
B. Voc. II (Building Technology & Interior Designing)
Sem. III Major– V B. Voc. Paper-V
Building Construction - I Theory: 30 Hours
(Credits: 02)

- Unit-1: - Introduction to Building Construction** (8 Hrs)
- Basics of Building
 - Types of buildings (residential, commercial, industrial)
 - Components of building (foundation, plinth, wall, roof)
 - Building planning basics
- Unit-2: - Building Materials** (7 Hrs)
- Bricks, stones, sand, cement – properties & uses
 - Mortar (types & preparation)
 - Timber – types and uses
 - Basic material selection
- Unit-3: - Foundations** (7 Hrs)
- Definition and importance
 - Types of foundation (shallow & deep)
 - Strip footing, isolated footing
 - Excavation process
 - Foundation construction steps
- Unit-4: - Masonry Work** (8 Hrs)
- Brick masonry (types of bonds – English, Flemish)
 - Stone masonry (basics)
 - Tools used in masonry
 - Quality of masonry work

Suggested References

- **Building Construction – B. C. Punmia**
 - **Building Construction – S. C. Rangwala**
 - **Building Construction – P. C. Varghese**
- Building Materials – S. K. Duggal
Construction Technology – Roy Chudley

SHIVAJI UNIVERSITY, KOLHAPUR

B. Voc. Part II (Food Processing Technology) NEP 2.0 Syllabus with effect from June 2026

B. Voc. II (Building Technology & Interior Designing)

Sem. III Major– VI B. Voc. Paper –VI

Building Services – I Theory: 30 Hours

(Credits: 02)

Unit–1: - Introduction to Building Services (7 Hrs)

- Definition and importance of building services
- Types of services in buildings
- Role of services in modern construction

Unit–2: - Water Supply System (7 Hrs)

- Sources of water (surface & groundwater)
- Water treatment basics
- Distribution systems in buildings
- Types of pipes and fittings
- Storage tanks (overhead & underground)

Unit–3: - Plumbing System (8 Hrs)

- Layout of plumbing in residential buildings
- Types of plumbing systems (direct & indirect)
- Pipe joints and connections
- Common plumbing fixtures (sink, basin, WC, etc.)

Unit–4: - Sanitation and Drainage (8 Hrs)

- Types of drainage systems (separate & combined)
- House drainage system layout
- Traps (P-trap, S-trap, floor trap, gully trap)
- Inspection chambers & manholes
- Septic tank and soak pit

Suggested References

Water Supply and Sanitary Engineering – by G. S. Birdie & J. S. Birdie

Building Services Engineering – by David V. Chadderton

Environmental Engineering – by K. N. Duggal

Public Health Engineering – by S. K. Garg

Handbook of Plumbing – by Indian Plumbing Association

Building Construction – by B. C. Punmia

SHIVAJI UNIVERSITY, KOLHAPUR

B. Voc. Part II (Building Technology & Interior Designing)

NEP 2.0 Syllabus with effect from June 2026

B. Voc. II (Building Technology & Interior Designing) Sem. III Major – P- III

(Credits: 02)

Building Construction – I

Group –I

1. Study of Building Materials
2. Brick Bond Practical.
3. Foundation Layout Practical.
4. Excavation and Foundation Work (Study Practical).
5. Brick Masonry Practical.
6. Mortar Preparation Practical.
7. Damp Proof Course (DPC) Study.
8. Doors and Windows Practical.

Building Services – I

Group - II

1. Study of Water Supply System.
2. Plumbing Tools and Materials.
3. Pipe Joints Practical.
4. Layout of Water Supply in Building.
5. Sanitary Fixtures Study.
6. Traps Practical.
7. House Drainage System.
8. Septic Tank and Soak Pit.

Suggested References

Water Supply and Sanitary Engineering – by G. S. Birdie & J. S. Birdie

Building Construction – by B. C. Punmia

Environmental Engineering – by K. N. Duggal

Public Health Engineering – by S. K. Garg

- **Handbook of Plumbing – by Indian Plumbing Association**
 - Best for **real-life plumbing practices, pipe joints, fittings**
- **CPWD Specifications – by Central Public Works Department**
 - Standard methods for **installation and execution work**

SHIVAJI UNIVERSITY, KOLHAPUR
B. Voc. Part II (Building Technology & Interior Designing)
NEP 2.0 Syllabus with effect from June 2026
B. Voc. II (Building Technology & Interior Designing)
Sem. III Minor– V B. Voc. Paper-V
Interior Materials – I Theory: 30 Hours
(Credits: 02)

Unit 1: Introduction to Interior Materials **(8 Hrs)**

- Definition and importance of interior materials
- Selection criteria (durability, cost, aesthetics, maintenance)
- Properties of materials

Unit 2: Stone Materials **(7 Hrs)**

- Types: granite, marble, limestone, sandstone
- Properties and uses in interiors
- Finishes (polished, honed, flamed)

Unit 3: Timber and Wood Products **(7 Hrs)**

- Types of timber (hardwood & softwood)
- Defects in timber
- Engineered wood (plywood, MDF, particle board, block board)
- Uses in furniture and interiors

Unit 4: Bricks , Clay and Glass Products **(8 Hrs)**

- Types of bricks
- Properties and uses
- Terracotta and clay tiles
- Types: clear glass, tinted, toughened, laminated
- Properties and uses in interiors
- Safety glass applications

Suggested References

1. **Interior Design Materials and Specifications – by Lisa Godsey**
 - One of the best books for **material selection, finishes, and specifications**
 - Covers practical interior applications
2. **Materials for Interior Environments – by Corky Binggeli**
 - Detailed explanation of **all interior materials**
 - Very useful for **students and beginners**
3. **Building Construction – by B. C. Punmia**
 - Useful for **basic materials like stone, brick, timber**
4. **Engineering Materials – by S. K. Duggal**
 - Covers **properties of materials (strength, durability, etc.)**

SHIVAJI UNIVERSITY, KOLHAPUR
B. Voc. Part II (Building Technology & Interior Designing)
NEP 2.0 Syllabus with effect from June 2026
B. Voc. II (Building Technology & Interior Designing)
Sem. III Minor– VI B. Voc. Paper-VI
Commercial Interior Design - I Theory: 30 Hours
(Credits: 02)

Unit 1: Introduction to Commercial Interior Design **(7 Hrs)**

- Definition and scope of commercial interiors
- Difference between residential and commercial design
- Types of commercial spaces

Unit 2: Space Planning Principles **(8 Hrs)**

- Zoning and circulation
- Ergonomics in commercial spaces
- Anthropometric considerations
- Space efficiency

Unit 3: Retail Interior Design **(8 Hrs)**

- Types of retail stores (mall, showroom, boutique)
- Store layout planning (grid, loop, free flow)
- Visual merchandising basics
- Display techniques

Unit 4: Office Interior Design **(7 Hrs)**

- Types of office layouts (open office, cubicle, co-working)
- Workstation design
- Lighting and ventilation in offices
- Productivity and comfort factors

Suggested References

1. **Designing Commercial Interiors – by Christine M. Piotrowski**
 - One of the **best standard textbooks** for commercial interiors
 - Covers **planning, design process, safety, codes, and execution**
 - Includes retail, office, hospitality design
2. **Space Planning for Commercial and Residential Interiors – by Roberto J. Rengel**
 - Best for **space planning, zoning, and circulation**
 - Useful for layout-based questions
3. **The Fundamentals of Interior Design – by Simon Dodsworth**
 - Covers **basic design principles, color, lighting, materials**
 - Good for beginners
4. **Interior Design Illustrated – by Francis D. K. Ching**
 - Excellent for **diagrams and visual understanding**
 - Helps in exams and drawing

SHIVAJI UNIVERSITY, KOLHAPUR
B. Voc. Part II (Building Technology & Interior Designing)
NEP 2.0 Syllabus with effect from June 2026
B. Voc. II ((Building Technology & Interior Designing)
Sem. III Minor– P- III
(Credits: 02)

Interior Materials -I

Group –I

- Study of basic interior materials
- Timber and wood products study
- Surface finishes study
- Stone materials study
- Glass materials study
- Metals in interiors study
- Flooring materials study
- Ceiling materials study
- Wall finishes study
- Insulating materials study

Commercial Interior Design – I

Group - II

- Study of commercial interior spaces
- Space planning and zoning exercise
- Circulation layout planning
- Retail store layout design
- Visual merchandising study
- Office layout planning
- Workstation design
- Hospitality space planning (restaurant/café)
- Lighting layout design
- Color scheme and branding study

Suggested References

1. **Designing Commercial Interiors – by Christine M. Piotrowski**
2. **Space Planning for Commercial and Residential Interiors – by Roberto J. Rengel**
3. **Interior Design Illustrated – by Francis D. K. Ching**
4. **The Fundamentals of Interior Design – by Simon Dodsworth**

- **Retail Design – by Martin M. Pegler**
- **Sustainable Commercial Interiors – by Penny Bonda**

- **National Building Code of India**
- **Bureau of Indian Standards**

SHIVAJI UNIVERSITY, KOLHAPUR
B. Voc. Part II (Building Technology & Interior Designing)
NEP 2.0 Syllabus with effect from June 2026
B. Voc. II (Building Technology & Interior Designing)
Sem. III OPEN ELECTIVE (OE)- III
Colour Theory (Practical)
(Credits: 02)

- Study of colour wheel
- Primary, secondary and tertiary colours chart
- Colour mixing (paint mixing exercise)
- Warm and cool colours study
- Tint, tone and shade preparation
- Monochromatic colour scheme
- Analogous colour scheme
- Complementary colour scheme
- Split-complementary colour scheme
- Triadic colour scheme
- Tetradic (double complementary) colour scheme
- Colour harmony study
- Colour contrast study
- Psychological effects of colours
- Colour application in interiors

Suggested References

1. **Interaction of Color – by Josef Albers**
 2. **Color Design Workbook – by Sean Adams & Terry Lee Stone**
 3. **Color: A Workshop for Artists and Designers – by David Hornung**
 4. **The Elements of Color – by Johannes Itten**
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- **Color for Interior Design – by John Pile**
 - **The Fundamentals of Interior Design – by Simon Dodswort**

SHIVAJI UNIVERSITY, KOLHAPUR
B. Voc. Part II (Building Technology & Interior Designing)
NEP 2.0 Syllabus with effect from June 2026
B. Voc. II (Building Technology & Interior Designing)
Sem. III OPEN ELECTIVE (OE)- III
रंग सिद्धांत (प्रात्यक्षिक) (Credits: 02)

- रंगचक्राचा (Colour Wheel) अभ्यास
- प्राथमिक, दुय्यम व तृतीय रंगांचे चार्ट
- रंग मिश्रण (Paint Mixing) प्रात्यक्षिक
- उष्ण (Warm) व थंड (Cool) रंगांचा अभ्यास
- टिंट, टोन व शेड तयार करणे
- एकरंगी (Monochromatic) रंग योजना
- अनुरूप (Analogous) रंग योजना
- परस्परपूरक (Complementary) रंग योजना
- विभाजित परस्परपूरक (Split-Complementary) रंग योजना
- त्रिक (Triadic) रंग योजना
- चतुष्क (Tetradic / Double Complementary) रंग योजना
- रंग सुसंगती (Colour Harmony) अभ्यास
- रंग विरोध (Colour Contrast) अभ्यास
- रंगांचे मानसशास्त्रीय परिणाम
- अंतर्गत सजावटीत रंगांचा वापर

Suggested References

- **Interaction of Color** – लेखक: Josef Albers
- **Color Design Workbook** – लेखक: Sean Adams व Terry Lee Stone
- **Color: A Workshop for Artists and Designers** – लेखक: David Hornung
- **The Elements of Color** – लेखक: Johannes Itten

- **Color for Interior Design** – लेखक: John Pile
- **The Fundamentals of Interior Design** – लेखक: Simon Dodsworth

SHIVAJI UNIVERSITY, KOLHAPUR

B. Voc. Part II (Building Technology & Interior Designing)

NEP 2.0 Syllabus with effect from June 2026

B. Voc. II (Building Technology & Interior Designing) Sem. III Vocational Skill Courses (VSC)- I

Major Specific (Practical)

(Credits: 02)

- Study of basic construction tools and equipment
- Safety practices at construction site
- Brick masonry practical
- Mortar preparation (cement mortar)
- Concrete mixing (PCC)
- Foundation marking and layout
- Excavation and leveling practice
- Plastering practical
- Bar bending and reinforcement study
- Shuttering and centering work
- Tile fixing / flooring practical
- Basic plumbing work (pipe cutting and jointing)
- Basic electrical wiring practice
- Painting and finishing work
- Measurement and estimation (basic)
- Reading of simple building drawings

Suggested References

- **Building Construction – by B. C. Punmia**
- **Building Construction – by Sushil Kumar**
- **Construction Technology – by R. Chudley & Roger Greeno**
- **Building Materials – by S. K. Dugga**
- **Civil Engineering Construction Practice – by V. K. Mehta & Rohit Mehta**
- **Basic Civil Engineering – by S. S. Bhavikatti**

SHIVAJI UNIVERSITY, KOLHAPUR
B. Voc. Part II (Building Technology & Interior Designing)
NEP 2.0 Syllabus with effect from June 2026
B. Voc. II (Building Technology & Interior Designing)
Sem. III Skill Enhancement Courses (SEC)- I Advanced Auto Cad Drafting (Practical)
(Credits: 02)

- Study of AutoCAD interface and advanced commands
- Setting units, limits, layers, and dimension styles
- Use of advanced drawing commands (polyline, spline, ellipse)
- Modify commands (trim, extend, offset, mirror, array)
- Layer management and properties
- Hatching and gradient application
- Text and annotation (MTEXT, dimensions, leaders)
- Block creation and insertion
- Use of external references (XREF)
- Layout setup and viewport creation
- Plotting and printing settings
- 2D detailed building plan drafting
- Elevation and section drawing
- Furniture layout drafting
- Electrical layout drawing

Suggested References

1. **Mastering AutoCAD – by George Omura**
 2. **AutoCAD for Engineers and Designers – by P. Nageswara Rao**
 3. **Engineering Drawing and Design – by David A. Madsen & David P. Madsen**
-
- **AutoCAD Official Help & Tutorials – by Autodesk**
 - **AutoCAD Pocket Reference – by Cheryl R. Shrock**

SHIVAJI UNIVERSITY, KOLHAPUR
B. Voc. Part II (Building Technology & Interior Designing)
NEP 2.0 Syllabus with effect from June 2026
B. Voc. II (Building Technology & Interior Designing)
Sem. III Co-Curricular Courses (CC-I)
Yoga Education
(Credits: 02)

Note: For this course, follow the common syllabus and evaluation guidelines issued by the university separately.

Examination Pattern: -

- | | | |
|----|--|----------|
| 1. | Participation in activities | 30 marks |
| 2. | Seminar, Report, Group Discussion, Viva Voce, etc. | 20 marks |
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SHIVAJI UNIVERSITY, KOLHAPUR

B. Voc. Part II (Building Technology & Interior Designing)

NEP 2.0 Syllabus with effect from June 2026

B. Voc. II (Building Technology & Interior Designing)

Sem. IV Major– VII B. Voc. Paper-VII

Building Construction - II

Theory: 30 Hours

(Credits: 02)

Unit 1: Foundations (Advanced) (8 Hrs)

- Types of foundations (shallow & deep)
- Pile foundation, raft foundation
- Bearing capacity of soil (basic concept)

Unit 5: Floors and Flooring (7 Hrs)

- Types of floors
- Construction of different flooring systems
- Special floors (industrial floors).

Unit III: Stairs and Staircases (7 Hrs)

- Types of stairs
- Design considerations
- Terminology

Unit IV: Introduction to Prefabrication, Formwork and Centering (8 Hrs)

- Prefabricated construction
- Advantages and limitations
- Basic components
- Types of formwork
- Materials used
- Removal of formwork

Suggested References

- **Building Construction – by B. C. Punmia**
- **Building Construction – by Sushil Kumar**
- **Construction Technology – by R. Chudley & Roger Greeno**

- **Building Materials – by S. K. Duggal**
- **Engineering Materials – by K. N. Duggal**

SHIVAJI UNIVERSITY, KOLHAPUR
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NEP 2.0 Syllabus with effect from June 2026
B. Voc. II (Building Technology & Interior Designing) Sem. IV

Major– VIII B. Voc. Paper -VIII Building Services - II

Theory: 30 Hours

(Credits: 02)

Unit I: Illumination and Lighting

(8 Hrs)

- Principles of lighting
- Types of lighting (natural & artificial)
- Lighting design for buildings

Unit II: Ventilation

(7 Hrs)

- Importance of ventilation
- Natural and mechanical ventilation
- Air changes and airflow

Unit III: Lifts and Escalators

(7 Hrs)

- Types of lifts
- Components and working
- Escalators and moving walkways

Unit IV: Acoustics in Buildings

(8 Hrs)

- Sound and noise
- Acoustic materials
- Sound insulation and control

Suggested References

1. **Building Services Engineering – by David V. Chadderton**
2. **Electrical Wiring, Estimating and Costing – by S. L. Uppal**
3. **Heating, Ventilating and Air Conditioning – by R. K. Rajput**

- **Textbook of Refrigeration and Air Conditioning – by R. S. Khurmi & J. K. Gupta**
- **Environmental Engineering – by K. N. Duggal**

- **National Building Code of India**
- **Bureau of Indian Standards**
- **Central Public Works Department (CPWD Specifications)**

SHIVAJI UNIVERSITY, KOLHAPUR
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B. Voc. II (Building Technology & Interior Designing) Sem. IV

Major – P- VII & Major VIII(Credits: 02)

Building Construction – II

Group –I

- Study of different types of foundations (pile, raft)
- Damp proofing and waterproofing methods
- Study of arches and lintels
- Detailed study of doors and windows
- Flooring types and construction details
- Roof construction (flat and sloping roof)
- Staircase planning and drawing
- Plastering and pointing techniques
- Formwork and centering study
- Study of prefabricated building components
-

Building Services - II Group - II

- Study of electrical wiring systems
- Preparation of electrical layout for a building
- Study of different types of lighting systems
- Lighting layout design for a room/building
- Study of ventilation systems (natural & mechanical)
- Study of air conditioning systems (window, split, central)
- HVAC layout (basic)
- Study of lifts and escalators
- Study of fire fighting equipment and systems
- Fire safety plan for a building
- Study of acoustic materials and sound

Suggested References

- **Building Services Engineering – by David V. Chadderton**
- **Electrical Wiring, Estimating and Costing – by S. L. Uppal**
- **Heating, Ventilating and Air Conditioning – by R. K. Rajput**

- **Textbook of Refrigeration and Air Conditioning – by R. S. Khurmi & J. K. Gupta**
- **Environmental Engineering – by K. N. Duggal**

- **National Building Code of India**
- **Bureau of Indian Standards**

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B. Voc. II (Building Technology & Interior Designing) Sem. IV

Minor– VII B. Voc. Paper-VII Interior Materials - II

Theory: 30 Hours

(Credits: 02)

Unit I: Advanced Wood and Engineered Materials (8 Hrs)

- Plywood, MDF, HDF, particle board (detailed)
- Laminates and veneers
- Applications in interiors

Unit II: Advanced Glass Materials (7 Hrs)

- Toughened, laminated, insulated glass
- Smart glass and decorative glass
- Applications in interiors

Unit III: Ceiling Systems (7 Hrs)

- False ceiling systems (grid, gypsum, metal)
- Acoustic ceilings
- Installation basics

Unit IV: Sustainable and Eco-friendly Materials (8 Hrs)

- Green materials
- Recycled and renewable materials
- Energy-efficient materials

Suggested References

1. **Materials for Interior Environments – by Corky Binggeli**
2. **Interior Design Materials and Specifications – by Lisa Godsey**
3. **Engineering Materials – by S. K. Duggal**

- **Materials and Components of Interior Architecture – by Julius Panero & Martin Zelnik**
- **Time-Saver Standards for Interior Design and Space Planning – by Joseph De Chiara**

Codes & Standards

- IS 2542
- IS 456
- Bureau of Indian Standards

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NEP 2.0 Syllabus with effect from June 2026
B. Voc. II (Building Technology & Interior Designing)
Sem. IV Minor– VIII B. Voc. Paper -VIII

Commercial Interior Design - II Theory: 30 Hours

(Credits: 02)

Unit I: Advanced Space Planning

(7 Hrs)

- Space programming
- Bubble diagrams and adjacency matrices
- Circulation analysis

Unit II: Retail Design (Advanced)

(8 Hrs)

- Store planning and zoning
- Visual merchandising techniques
- Display systems and fixtures

Unit III: Office Design (Advanced)

(8 Hrs)

- Corporate office planning
- Modular furniture systems
- Ergonomics and workspace efficiency

Unit IV: Healthcare and Institutional Interiors

(7 Hrs)

- Hospitals and clinics planning
- Educational institutions interiors
- Functional requirements

Suggested References

- **Designing Commercial Interiors – by Christine M. Piotrowski**
 - Covers complete **commercial design process, planning, safety, and codes**
- **Space Planning for Commercial and Residential Interiors – by Roberto J. Rengel**
 - Best for **space planning, zoning, and circulation concepts**
- **Interior Design Illustrated – by Francis D. K. Ching**
 - Excellent for **visual diagrams and layouts**
- **The Fundamentals of Interior Design – by Simon Dodsworth**
 - Covers **basic to advanced design principles**

SHIVAJI UNIVERSITY, KOLHAPUR

B. Voc. Part II (Building Technology & Interior Designing)

NEP 2.0 Syllabus with effect from June 2026

B. Voc. II (Building Technology & Interior Designing) Sem. IV

Minor– P- VII & VIII

(Credits: 02)

Interior Materials – II

Group –I

Study of advanced wood and engineered materials.

- Study of laminates and veneers
- Study of advanced glass materials
- Study of metals and metal finishes
- Study of plastics and polymer materials
- Study of composite materials (FRP, GRC)
- Advanced flooring materials study
- Wall paneling and cladding study
- False ceiling systems study
- Acoustic and insulating mat

Commercial Interior Design - II

Group - II

- Advanced space planning (bubble diagram & zoning)
- Adjacency matrix preparation
- Retail store planning (advanced layout).
- Visual merchandising design (display setup)
- Office design (corporate layout)
- Modular workstation design
- Hospitality design (hotel/restaurant layout)
- Healthcare / institutional space planning
- Material and finishes selection for commercial spaces
- Lighting design (advanced layout)

Suggested References

Designing Commercial Interiors – by Christine M. Piotrowski

Space Planning for Commercial and Residential Interiors – by Roberto J. Rengel

Interior Design Illustrated – by Francis D. K. Ching

The Fundamentals of Interior Design – by Simon Dodsworth

- **Retail Design – by Martin M. Pegler**

- Useful for **retail layouts, display & merchandising**

- **Sustainable Commercial Interiors – by Penny Bonda**

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B. Voc. Part II (Building Technology & Interior Designing)
NEP 2.0 Syllabus with effect from June 2026
B. Voc. II (Building Technology & Interior Designing) Sem. IV
OPEN ELECTIVE (OE)- IV

Sketch up (3D Modelling) (Practical) (Credits: 02)

- Introduction to SketchUp interface and tools
- Basic drawing tools (line, rectangle, circle, arc)
- Modify tools (move, rotate, scale, push/pull)
- Creating 2D shapes and converting to 3D forms
- Use of groups and components
- Application of materials and textures
- Working with layers/tags
- Importing CAD drawings into SketchUp
- Creating doors, windows, and openings
- Furniture modelling
- Interior space modelling (room design)
- Exterior building modelling
- Lighting and shadow settings
- Scene creation and camera views
- Rendering basics (using plugins)

Suggested References

1. **SketchUp for Interior Design – by Lydia Cline**
 - Best for **interior modelling, furniture, materials, presentation**
 2. **Modeling with SketchUp for Interior Design – by Bonnie Roskes**
 - Step-by-step projects for **interior spaces and 3D modelling**
 3. **SketchUp for Dummies – by Aidan Chopra & Rebecca Huehls**
 - Covers **basic to advanced tools and modeling concepts**
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- **Architectural Design with SketchUp – by Alex Schreyer**
 - Covers **BIM workflow, plugins, rendering, advanced modelling**
 - **The SketchUp Workflow for Architecture – by Michael Brightman**
 - Complete workflow from **concept to final presentation**

SHIVAJI UNIVERSITY, KOLHAPUR
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NEP 2.0 Syllabus with effect from June 2026
B. Voc. II (Building Technology & Interior Designing) Sem. IV
OPEN ELECTIVE (OE)- IV

SketchUp 3D मॉडेलिंग (प्रात्यक्षिक) (Credits: 02)

- SketchUp इंटरफेस व टूल्सचा परिचय
- मूलभूत ड्रॉइंग साधने (रेषा, आयत, वर्तुळ, आर्क)
- सुधारणा साधने (हलवणे, फिरवणे, मोजमाप बदलणे, Push/Pull)
- 2D आकृत्या तयार करून 3D मध्ये रूपांतर करणे
- ग्रुप्स व कॉम्पोनंट्सचा वापर
- मटेरियल्स व टेक्स्चर्स लागू करणे
- लेयर्स/टॅग्ससोबत काम करणे
- CAD ड्रॉइंग SketchUp मध्ये आयात करणे
- दरवाजे, खिडक्या व ओपनिंग तयार करणे
- फर्निचर मॉडेलिंग
- अंतर्गत जागेचे मॉडेलिंग (रूम डिझाईन)
- बाह्य इमारतीचे मॉडेलिंग
- प्रकाश व सावली सेटिंग्स
- सीन तयार करणे व कॅमेरा व्ह्यू सेट करणे
- रेंडरिंगची मूलभूत माहिती (प्लगइन्स वापरून)

Suggested References

4. **SketchUp for Interior Design – by Lydia Cline**
 - Best for **interior modelling, furniture, materials, presentation**
 5. **Modeling with SketchUp for Interior Design – by Bonnie Roskes**
 - Step-by-step projects for **interior spaces and 3D modelling**
 6. **SketchUp for Dummies – by Aidan Chopra & Rebecca Huehls**
 - Covers **basic to advanced tools and modeling concepts**
-
- **Architectural Design with SketchUp – by Alex Schreyer**
 - Covers **BIM workflow, plugins, rendering, advanced modelling**
 - **The SketchUp Workflow for Architecture – by Michael Brightman**
 - Complete workflow from **concept to final presentation**

SHIVAJI UNIVERSITY, KOLHAPUR
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Skill Enhancement Courses (SEC)- II Space Planning

Techniques (Practical) (Credits: 02)

- Study of basic space planning principles
- Anthropometric data study
- Ergonomics study in interior spaces
- Bubble diagram preparation
- Zoning of spaces
- Circulation pattern study
- Adjacency matrix preparation
- Layout planning for residential space
- Layout planning for office space
- Layout planning for retail space
- Furniture layout planning
- Space utilization study
- Case study of space planning
- Preparation of presentation sheets
- Practical journal

Suggested References

1. **Space Planning for Commercial and Residential Interiors – by Roberto J. Rengel**
2. **Interior Design Illustrated – by Francis D. K. Ching**
3. **Time-Saver Standards for Interior Design and Space Planning – by Joseph De Chiara**
4. **Human Dimension and Interior Space – by Julius Panero & Martin Zelnik**
5. **The Fundamentals of Interior Design – by Simon Dodsworth**

SHIVAJI UNIVERSITY, KOLHAPUR
B. Voc. Part II (Building Technology & Interior Designing)
NEP 2.0 Syllabus with effect from June 2026
B. Voc. II (Building Technology & Interior Designing) Sem. IV

Community Engagement Programme in Building Technology & Interior Designing
(CEP)- I (Credits: 02)

1. INTRODUCTION:

The Building Technology & Interior Design programme is designed to provide students with comprehensive knowledge of construction techniques, interior design principles, materials, and modern technologies. With rapid urbanization, there is an increasing demand for safe, functional, and aesthetically pleasing built environments.

This programme equips students with both theoretical and practical knowledge in areas such as building construction, interior materials, space planning, and building services. It enables students to understand real-world applications and prepares them for professional practice.

The course also helps in developing creativity, technical skills, and a professional approach required in the construction and interior design industry.

2. OBJECTIVES:

- To provide fundamental and advanced knowledge of building technology and interior design
- To understand various construction materials and their applications
- To develop skills in planning functional and aesthetically pleasing spaces
- To train students in using software such as AutoCAD and SketchUp for drafting and modeling
 - To understand on-site construction practices and execution
- To develop professional skills such as estimation, planning, and presentation

3. LEARNING OUTCOMES:

After completing this programme, students will be able to:

- Understand construction processes and building technologies
- Identify and apply appropriate interior materials
- Plan residential and commercial interior spaces effectively
- Prepare 2D drawings and 3D models using AutoCAD and SketchUp
- Understand building services such as water supply, electrical systems, and HVAC
- Apply practical knowledge in real-world projects

4. COURSE STRUCTURE:

	Module Title	Module Content	Teaching/Learning/Met hodology
	Understanding CEP	Introduction, Guidelines, Necessities	Classroom discussions, Field visit. Survey, Individual / Group conference, Report submission & VIVA
	Identification of the topic and area	Use of survey, Field visits, communication with society	
	Organization of Activities	Organization of Hands-on Training, Exhibitions, lectures, community conferences	
	Project	Detailed report of the outcome of the works	

Note: Faculty can make addition in the list of activities as per domain content:

Recommended field-based activities (Tentative):

- Visit construction sites to study building techniques, materials, and safety practices
- Observe foundation, masonry, roofing, and finishing works at site
- Study interior works such as flooring, false ceiling, painting, and furniture installation
- Conduct site measurements and prepare drawings
- Visit material showrooms (tiles, laminates, sanitary, lighting) and study product specifications
- Interaction with contractors, engineers, and interior designers
- Study estimation and costing practices at site
- Observe plumbing, electrical, and HVAC services in buildings
- Prepare layout plans for residential and commercial spaces
- Conduct case study of completed building / interior project
- Visit prefabrication units or workshops
- Study sustainable building materials and green building practices
- Conduct market survey of construction and interior materials
- Prepare material boards and presentation sheets
- Study safety measures and quality control practices at site
- Prepare working drawings using AutoCAD
- Develop 3D models using SketchUp;
- Participate in site supervision and documentation work
- Conduct energy efficiency and lighting analysis for buildings
- Study waste management practices at construction sites

5. IMPORTANT RULES AND REGULATIONS FOR CEP:

Concurrent Fieldwork

- Students must carry out detailed field studies related to building construction and interior design
- All activities should be properly documented
- Students must maintain a **Field Diary / Journal** including:
 - Site observations
 - Drawings and sketches
 - Work planning and execution
 - Work hours
- A detailed **fieldwork report** must be submitted and presented
- Faculty should conduct **regular (fortnightly) reviews** of fieldwork
- Students should actively participate in:
 - Site visits
 - Practical work
 - Design and drawing exercises
- **100% attendance is mandatory** for fieldwork
- In case of absence, **additional work must be completed** with faculty approval

6. EVALUATION/ASSESSMENT SCHEME:

Students should keep a Field Diary / journal to record, content, readings and field visit planning. The assessment pattern is internal and external i.e. 30+20.

Internal continuous Assessment:

Participation in concurrent field visits 40%; individual/group field project conference report/journal submission 40%.

External Assessment:

Presentation of field project findings (VIVA) should be assigned 20%.

Shivaji University, Kolhapur
B. Voc. II Syllabus (NEP-2.0)
To be implemented from June 2026 onwards
Name of College
COMMUNITY ENGAGEMENT PROGRAMME (CEP)
In
Building Technology & Interior Designing

Name of Student:	
Roll No.	Exam Seat No:

No.	Date	Activity	Type of Activity	Time Duration	Sign of Student	Signature of Teacher
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						

Total 30 Hours participation is required.

Teacher in Charge

H.o.D.

Principal

B. Voc. II Syllabus (NEP-2.0)
To be implemented from June 2026 onwards Semester – III & IV
Nature of a Question Paper

Time: 1 hours

Total Marks: 30

Solve questions from the following.

Q. 1 Multiple choice Question

06 Marks

- i.
- ii.
- iii.
- iv.
- v.
- vi.

Q. 2 Long answer Question (Any Two out of three)

12 Marks

- i.
- ii.
- iii.

Q. 3 Short Answer Questions (Any Four out of six)

12 Marks

- i.
- ii.
- iii.
- iv.
- v.
- vi.

Internal Assessment

20 Marks

- Home Assignment
- Class Assignment (Tutorial Type)
- Quiz
- Mid-Term Test

Nature of Practical Question Paper:

Internal practical examination

50 marks

- | | |
|------------------------------------|----------|
| 1. Group I | 20 Marks |
| 2. Group II | 20 Marks |
| 3. Submission of Certified Journal | 10 Marks |