



**MAHARASHTRA INSTITUTE OF TECHNOLOGY, AURANGABD**  
**An Autonomous Institute Affiliated to Dr. Babasaheb**  
**Ambedkar Marathwada University, Aurangabad,**  
**Maharashtra (India)**

**Syllabus of Bachelor of Vocation**

**In**

**Interior Design**

**Under Choice Based Credit System (CBCS)**

**Under Faculty of Science and Technology**

**(Effective from 2022-23 and onwards)**



## Curriculum for B. Voc. Interior Design

NSQF Level -5										Semester -I
Sr. No.	Course Code	Course Title	Credit	Contact Hr/Wk		Evaluation Scheme				ESE hour
				L	P	MSE	TA	ESE	Total	
<b>Theory</b>										
1.	VID101	Basic Design – I	3	3		10	15	25	50	1.5
2.	VID102	Basic Building Material & Technology	3	3	-	10	15	25	50	1.5
3.	VID103	Technical Communication	3	3	-	10	15	25	50	1.5
4.	VID104	Interior Services – I	3	3	-	10	15	25	50	1.5
<b>Lab/Practical</b>										
5.	VID121	Rendering Techniques (Manual)& Basic Design Studio– I	1.5	-	2	-	25	25	50	-
6.	VID122	Workshop – I	1.5	-	2	-	25	25	50	-
<b>On Job Training (OJT)/Qualification Packs*</b>										
7.	VID131	Any Allied skill Sector Council Qualification Pack /Job role - NSQF level 5	15	-	7-8 weeks	--	50	150	200	-


\*Any one On-Job-Training as per guidelines of AICTE & SSC for the given skill sets for 150 Marks External Assessment by NSDC/SSC

NSQF Level -5										Semester -II
Sr. No.	Course Code	Course Title	Credit	Contact Hr/Wk		Evaluation Scheme				ESE hour
				L	P	MSE	TA	ESE	Total	
<b>Theory</b>										
1.	VID151	Basic Design – II	3	3		10	15	25	50	1.5
2.	VID152	Design & Innovation	3	3	-	10	15	25	50	1.5
3.	VID153	History of Furniture – I	3	3	-	10	15	25	50	1.5
4.	VID154	Interior Services - II	3	3	-	10	15	25	50	1.5
<b>Lab/Practical</b>										
5.	VID171	Workshop – II	1.5	-	2	-	25	25	50	-
6.	VID172	Design & Innovation Lab	1.5	-	2	-	25	25	50	-
<b>On Job Training (OJT)/Qualification Packs*</b>										
7.	VID181	Any Allied skill Sector Council Qualification Pack /Job role - NSQF level 5	15	-	7-8 weeks	--	50	150	200	-

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## Curriculum for B. Voc. Interior Design

NSQF Level -6					Semester -I					
Sr. No.	Course Code	Course Title	Credit	Contact Hr/Wk		Evaluation Scheme				ESE hour
				L	P	MSE	TA	ESE	Total	
<b>Theory</b>										
1.	VID201	Interior Design – I (Residential)	3	3	-	10	15	25	50	1.5
2.	VID202	Auto CAD – I	3	3	-	10	15	25	50	1.5
3.	VID203	History of Furniture – II	3	3	-	10	15	25	50	1.5
4.	VID204	Interior Services- III	3	3	-	10	15	25	50	1.5
<b>Lab/Practical</b>										
5.	VID221	Interior Design (Residential)-Lab	1.5	-	2		25	25	50	-
6.	VID222	Auto CAD- I-Lab	1.5	-	2		25	25	50	-
<b>On Job Training (OJT)/Qualification Packs*</b>										
7.	VID231	Allied skill Sector Council Qualification Pack /Job role - NSQF level 6	15	-	7-8 weeks	--	50	150	200	-


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NSQF Level -6					Semester -II					
Sr. No.	Course Code	Course Title	Credit	Contact Hr/Wk		Evaluation Scheme				ESE hour
				L	P	MSE	TA	ESE	Total	
<b>Theory</b>										
1.	VID251	Interior Design – II (Commercial)	3	3	-	10	15	25	50	1.5
2.	VID252	Interior Construction Technology - I	3	3	-	10	15	25	50	1.5
3.	VID253	Quantity & Estimation	3	3	-	10	15	25	50	1.5
4.	VID254	Interior services – IV	3	3	-	10	15	25	50	1.5
<b>Lab/Practical</b>										
5.	VID271	Interior Design – II (Commercial)	1.5	-	2	-	25	25	50	-
6.	VID272	Working Drawing – I	1.5	-	2	-	25	25	50	-
<b>On Job Training (OJT)/Qualification Packs*</b>										
7.	VID281	Allied skill Sector Council Qualification Pack /Job role - NSQF level 6	15	-	7-8 weeks	--	50	150	200	-

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## Curriculum for B. Voc. Interior Design

NSQF Level -7					Semester -I					
Sr. No.	Course Code	Course Title	Credit	Contact Hr/Wk		Evaluation Scheme				ESE hour
				L	P	MSE	TA	ESE	Total	
<b>Theory</b>										
1.	VID301	Interior Design – III (Institutional)	3	3	-	10	15	25	50	1.5
2.	VID302	Interior Construction Technology - II	3	3	-	10	15	25	50	1.5
3.	VID303	Specification Writing	3	3	-	10	15	25	50	1.5
4.	VID304	Advance Building / Interior Materials	3	3	-	10	15	25	50	1.5
<b>Lab/Practical</b>										
5.	VID321	Computer Presentation Techniques	1.5	-	2	-	25	25	50	-
6.	VID322	Working Drawing - II	1.5	-	2	-	25	25	50	-
<b>On Job Training (OJT)/Qualification Packs*</b>										
7.	VID331	Allied skill Sector Council Qualification Pack /Job role - NSQF level 7	15	-	7-8 weeks	--	50	150	200	-

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NSQF Level -7					Semester -II					
Sr. No.	Course Code	Course Title	Credit	Contact Hr/Wk		Evaluation Scheme				ESE hour
				L	P	MSE	TA	ESE	Total	
<b>Theory</b>										
1.	VID351	Sustainable & Universal Interior Trends in Design	3	3	-	10	15	25	50	1.5
2.	VID352	Entrepreneurship in Field of Interior Design	3	3	-	10	15	25	50	1.5
<b>Lab/Practical</b>										
3.	VID371	Project	9	-	4	-	50	50	100	-
<b>On Job Training (OJT)/Qualification Packs*</b>										
4.	VID381	Allied skill Sector Council Qualification Pack /Job role - NSQF level 7	15	-	7-8 weeks	--	50	150	200	-

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**B.Voc. (Interior Design)**

NSQF Level-5		VID101: Basic Design – I		Semester-I	
Teaching Scheme				Examination Scheme	
Lectures	03 hrs/Week			MSE	10 Marks
Practical	-			TA	15 Marks
Total Credits	03			ESE	25 Marks
				Duration of ESE	1.5 hours
<b>Course Outcomes (CO)</b>					
Students will be able to					
1.	Understand the base of design aspects, in terms of design elements and principles that are generically applicable to any design stream including interior design.				
2.	Understand the Elements & Principles of design as building blocks of creative design.				
3.	Understand Human scale & proportion. Developing skills in manual presentation techniques.				
<b>Unit</b>	<b>Course Content</b>				<b>Hours</b>
<b>Unit 1</b>	Physical demonstration presentation on parameters of design, anthropometrics and ergonomics, human activity and use of interior spaces and furniture				(02)
<b>Unit 2</b>	Demonstration on analysis of design process, concept formation for design, structural components and walling systems				(07)
<b>Unit 3</b>	Physical demonstration on joinery and openings				(07)
<b>Unit 4</b>	Physical demonstration on doors and windows				(07)
<b>Unit 5</b>	Graphical project work (Pencil drawing of planning of any Flat/House/Bungalow)				(07)
<b>Reference Book</b>					
<b>Sr. No.</b>	<b>Book</b>	<b>Author</b>	<b>Publisher</b>		
1	Decorative Designs of Frank Lloyd Wright,	Hanks, A.David	Dover Publications, Inc. New York, 1999.		
2.	Architecture Drafting and Design	Helper, E.Donald, Wallach, I.Paul.	3rd ed. McGraw-Hill Book Company, New York, 1977.		
3.	Colour in Interior Design	John.F. Pile	Mc-Graw Hill professional, 1st edition, 1997		
4	The Art of colour	Johannes Item	John Wiley & Sons; Revised edition, 1997		
5	Architectural Composition	Krier, Rob.	Academy Editions, London, 1988.		

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**B.Voc. (Interior Design)**

NSQF Level-5		VID102: Basic Building Material & Technology		Semester-I	
Teaching Scheme		Examination Scheme			
Lectures	03 hrs/Week	MSE	10 Marks		
Practical	--	TA	15 Marks		
Total Credits	03	ESE	25 Marks		
		Duration of ESE	1.5 hours		
<b>Course Outcomes (CO)</b>					
Students will be able to					
1.	Understand the basic materials used in construction, basic components of a building and method of construction and representation of the same.				
2.	About the material used in interior construction				
3.	How to apply materials in the interior building construction				
4.	Select other materials commonly used for contemporary buildings.				
Unit	Course Content				Hours
Unit 1	Materials - Clay, brick, stone their physical and behavioral properties, process of manufacture, tools and techniques of application to built form and interiors.				(05)
Unit 2	Metal, Glass, Cane and bamboo, tools and techniques of joinery,application to built forms and interiors.				(05)
Unit 3	Timber: Classification of trees,characteristics of good timber, defects in timber, seasoning of timber,uses in building construction and interiors. Commercial forms ofwood-Plywood,BlockBoard, Particle Board, Laminates and other products available in the market their properties and applicationsetc.				(05)
Unit 4	Building Terminology, Building components, its characteristics and behaviour. Relationship between building components& building material.				(05)
Unit 5	Brick walls for interior division of spaces and other uses (half brick and one brick thickness etc.). Light weight concrete blocks, hollow blocks, aerated concrete blocks.				(05)
Unit 6	Doors, windows, ventilators with focus on different modes of operation and their jamb linings. Types of Lintels and Arches based on structure and materials. Types based on mode of operation, material and positioning.				(05)
<b>Reference Book</b>					
Sr. No.	Book	Author	Publisher		
1	Building Construction: Planning Techniques and methods of Construction,	Bindra, S.P. and Arora, S.P.	DhanpatRai Pub.,		
2.	Elementary Building Construction,	Moxley, R. Mitchell's	Technical Press Ltd.		
3.	Building Construction	Rangwala, S.C.	Charota Pub. House		
4	T.B. of Building Construction	Sushil Kumar.	Standard Pub. Delhi		



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NSQF Level-5		VID103: Technical Communication		Semester-I	
Teaching Scheme		Examination Scheme			
Lectures	03 hrs/Week	MSE	10 Marks		
Practical	--	TA	15 Marks		
Total Credits	03	ESE	25 Marks		
		Duration of ESE	1.5 hours		
<b>Course Outcomes (CO)</b> Students will be able to					
1.	Understand the process and importance of effective communication.				
2.	Communicate effectively in different contexts.				
3.	Identifying parts of speech and writing correct sentences using appropriate vocabulary.				
4.	Write various types of paragraphs, notices for different purposes and composition on picture with appropriate format.				
Unit	Course Content				Hours
<b>Unit 1</b>	<b>Verbal and non-verbal communication</b> Basics of Communication - Definition and process of communication Types of communication - formal and informal, oral and written, verbal and non-verbal. Self-introduction and introducing others. Starting a dialogue and responding relevantly & appropriately. Social and Professional Etiquette: greetings, apologies, requests etc, Telephone Etiquette.				(05)
<b>Unit 2</b>	<b>Body language and vocalic</b> Gesture, posture and body language, Facial Expressions, Paralinguistic Skills, Haptics, Appearance.				(05)
<b>Unit 3</b>	<b>Writing skills</b> Application of Grammar, Parts of Speech (Noun, verb, adjective, adverb) and modals, Sentences and its types, Tenses, Active and Passive Voice, Punctuation. Picture composition, writing paragraph, Notice writing				(05)
<b>Unit 4</b>	<b>Presentation skills</b> Oral presentation, Seminar/ conference Paper Presentation, PPTs and Written presentation through poster/projects/reports/e-mails/assignments etc, Camera ready presentation, Picture composition.				(05)
<b>Unit 5</b>	<b>Debates, Skits, Group discussions</b> Dynamics of Group Discussion, Intervention, Summarizing, Body Language and Voice, Intonation, Interview etiquette, Body posture and body language Voice, intonation and modulation, pre-interview planning, opening strategies, answering techniques, Interview through tele-conferencing and videoconferencing, Mock interview				(05)
<b>Unit 6</b>	<b>Interpersonal skills, Analytical writing skills, Business writing skills, technical writing skills</b> <u>Interpersonal skills</u> - Active listening, Body language, Critical Thinking, Positive Attitude, Teamwork, Problem Solving. <u>Analytic writing skills</u> -Articulated and supportive complex ideas. Constructing and evaluating arguments, Sustaining a focused and				(05)

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	coherent discussion. <u>Technical writing skills</u> - In depth knowledge about the topic, technical documentation. <u>Business writing skills</u> – Clearly stating your purpose, organizing ideas thoughtfully, stating facts instead of opinions.	
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**Reference Book**

Sr. No.	Book	Author	Publisher
1	Communicating Effectively in English, Book-I	Revathi Srinivas	Abhishek Publications, Chandigarh.
2.	Communication Techniques and Skills	R. K. Chadha	Dhanpat Rai Publications, New Delhi.
3.	High School English Grammar and Composition	Wren & Martin;	S. Chand & Company Ltd., Delhi
4	Q. Skills for success	Level & Margaret Books	Oxford University Press
5.	The Functional aspects of Communication Skills	Dr. P. Prasad, S.K. Katria & Sons, New Delhi	-

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**B.Voc. (Interior Design)**

NSQF Level-5		VID104: Interior Services – I		Semester-I	
Teaching Scheme				Examination Scheme	
Lectures	03 hrs/Week		MSE		10 Marks
Practical	--		TA		15 Marks
Total Credits	03		ESE		25 Marks
			Duration of ESE		1.5 hours
<b>Course Outcomes (CO)</b>					
Students will be able to					
1.	Understand the principles of water supply, sanitation and drainage system, and				
2.	Identify various types of sanitary fittings and fixtures to enable learner design appropriate service layout.				
<b>Unit</b>	<b>Course Content</b>				<b>Hours</b>
<b>Unit 1</b>	<b>Water Supply :</b> Hot and cold water supply systems, types of water supply pipes and joints, fixtures and fittings.				(06)
<b>Unit 2</b>	Soil and waste water disposal systems, types of sanitary pipes and joints.				(06)
<b>Unit 3</b>	Plumbing works for Kitchens, toilets, baths, washing machines, dishwasher, refrigerator, loft ,Tanksetc.				(06)
<b>Unit 4</b>	Detail for bath Tubs, Rain Shower, Jacuzzis, Bath enclosure, Multi-functional shower panels, sauna, sensors.				(06)
<b>Unit 5</b>	<b>Drainage :</b> Principles of drainage; Materials for drains - Traps their types, function and uses. Earthen pipes, Cement pipe, P.V.C. pipes and C.I. pipes. Sanitary fixture - WCs, washbasins, bath tubs, sinks -their types, sizes. Septic tank - types, sizes, etc.				(06)
<b>Reference Book</b>					
<b>Sr. No.</b>	<b>Book</b>	<b>Author</b>	<b>Publisher</b>		
1	Engineering Materials	Rangawala, S.C	Charter publishing house, Anand1963.		
2.	Water supply and sanitary Engineering	Rangawala, S.C	Publishing house,Roorkee		
3.	Interior Design Principles and practice	Pratap R.M (1988)	Standard publishers distribution,Delhi		
4	Architectural Acoustics, Principles andDesign	Madan Mehta & James Johnson			
5	Building services and Equipment's	Donald Hoff	Library of congress Cataloguing in PublicationData		

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**B.Voc. (Interior Design)**

<b>NSQF Level-5</b>		<b>VID121 : Rendering Techniques (Manual)&amp; Basic Design Studio- I</b>		<b>Semester-I</b>	
Teaching Scheme		Examination Scheme			
Practical	4 Hours/week	TA		25 Marks	
Credits	1.5	ESE/PE		25 Marks	
<b>Sr.No.</b>	<b>List of Experiments</b>				
<b>1</b>	Introduction of drawing equipment's, materials and methods of using them. Scale and its application for drawing geometric shapes. Lettering – different styles.				
<b>2</b>	Generation techniques from 2D to 3D ,3D compositions based on principles of Design using different materials. Rendering techniques of 2D Drawing along with human figures, accessories with & without stencils.				
<b>3</b>	Free hand sketching of furniture & interior schemes, landscape etc.				
<b>4</b>	Design of simple furniture with activities – seating, working, sleeping, storage. Design development including case studies.				
<b>5</b>	Concept development and design of single dwelling unit.				

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NSQF Level-5		VID122 : Workshop – I		Semester-I	
Teaching Scheme				Examination Scheme	
Practical	4 Hours/week			TA	25 Marks
Credits	1.5			ESE/PE	25 Marks
<b>Sr.No.</b>	<b>List of Experiments</b>				
1	Introduction of carpentry tools and machines. Different types of joints and their function.				
2	Introduction to modelling with paper, paper board, plastics, plaster of Paris, wood and clay.				
3	Basic model making technique, different types of material and their techniques.				
4	Models for basic design and Architecture design studio work.				

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<b>NSQF Level -5</b>		<b>VID131:On Job Training/Qualification Packs*</b>		<b>Semester-I</b>	
Teaching Scheme			Examination Scheme		
Practical	7-8 weeks		TA	50 Marks	
Credits	15		ESE/PE	150 Marks	
Any Allied skill Sector Council Qualification Pack /Job role - NSQF level 5					
Any one On-Job-Training as per guidelines of AICTE & SSC for the given skill sets for 150 Marks External Assessment by NSDC/SSC					

Sl. No.	Book	Author	Publisher
1	Principles of Design in Architecture	Author: K.W. Smith	Chapman and Hall, 1983
2	Architecture Drawing and Design	Author: E. Donald	3rd ed. McGraw-Hill Book Company, New York, 1977
3	Colour in Interior Design	Author: John F. Pitt	McGraw Hill Professional, 1st Edition, 1997
4	Principles of two Dimensional Design	Author: Walter Wragg	Van Nostrand Reinhold 1973
5	Architectural Composition	Author: Roy Koster	Academy Editions, London, 1988

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<b>NSQF Level-5</b>		<b>VID151: Basic Design – II</b>		<b>Semester-II</b>	
Teaching Scheme			Examination Scheme		
Lectures	03 hrs/Week	MSE	10 Marks		
Practical	-	TA	15 Marks		
Total Credits	03	ESE	25 Marks		
		Duration of ESE	1.5 hours		

**Course Outcomes (CO)**

Students will be able to

1.	To ensure that the students develop a clear framework towards framing the methodology to complete or continue a creative process.
2.	To ensure the students develop generative design thinking approaches
3.	To make the students understand the importance of mind mapping and brain storming
4.	To ensure that the students evolve the design using basic sketches for representation
<b>Unit</b>	<b>Course Content</b>
<b>Unit 1</b>	Interplay of planning principles like balance, harmony, rhythm etc.
<b>Unit 2</b>	Study and application of anthropometry and ergonomics as a tool to understand aesthetic and functional concepts of design.
<b>Unit 3</b>	Concepts of evolving technology and space modulation
<b>Unit 4</b>	History, styling and theme-based designs
<b>Unit 5</b>	Mind mapping, brain storming with related stimuli and unrelated stimuli, positive techniques for creativity, creative pause, Focus, Challenge, alternatives, concepts, sensitizing techniques, group or Individual techniques.
	<b>Hours</b>
	(06)
	(06)
	(06)
	(06)
	(06)

**Reference Book**

Sr. No.	Book	Author	Publisher
1	Principles of Design in Architecture	Smithies, K.W.	Chapman and Hall, 1983.
2.	Architecture Drafting and Design	Helper, E.Donald, Wallach, I.Paul.	3rd ed. McGraw-Hill Book Company, New York, 1977.
3.	Colour in Interior Design	John.F. Pile	Mc-Graw Hill professional, 1st edition, 1997
4	Principles of two Dimensional Design.	Wucius, Wong.	Van Nostrand Reinhold 1972.
5	Architectural Composition	Krier, Rob.	Academy Editions, London, 1988.

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<b>NSQF Level-5</b>		<b>VID152: Design &amp; Innovation</b>		<b>Semester-II</b>	
Teaching Scheme			Examination Scheme		
Lectures	03 hrs/Week	MSE	10 Marks		
Practical	--	TA	15 Marks		
Total Credits	03	ESE	25 Marks		
		Duration of ESE	1.5 hours		

**Course Outcomes (CO)**

Students will be able to

1. It will provide the participants with foundation and fundamentals skills in design.
2. Introduce ideas, methodologies, principles, and skills that comprise a common knowledge base important to all design disciplines.

Unit	Course Content	Hours
<b>Unit 1</b>	<b>Concept of Design:</b> - Design Definition, Design versus Art, Design and Environment, The basis of Design Process, Use Design in today's scenario.	(06)
<b>Unit 2</b>	<b>Design Fundamental:</b> - Principles of Design, Elements of Design, Colour Theory, and Understanding of Colour wheel, To increase and build sensitivity to the forms around them, To identify the revolving still life and outdoor in vicinity of environment, To relate the elements of design to understand design process for their projects, Understanding the colour quality, intensity, relationship with other colours, textures, shape.	(06)
<b>Unit 3</b>	<b>Produce Drawing:-</b> Defining Drawing, Different techniques of drawing, Exploration of medium, Compositions and Perspectives, Tonal Techniques, Use of Dreams and Music for creative drawing, To identify the use of tone and value, Texture/Frottage.	(06)
<b>Unit 4</b>	<b>Design Development:-</b> Preparing the adjacency matrix for the planning stages. Presenting the design context with professional etiquettes. Development of concept etc.	(06)
<b>Unit 5</b>	<b>Work Safe Review Module:-</b> Safety and Health responsibility, Role of War safe Inspector, Hazard identification, Risk assessment and Risk control, PPE, Dealing with emergency, Design a promotional poster advertising what students need to know about Safety and Dangers, or be warned about while working at College.	(06)

**Reference Book**

Sr. No.	Book	Author	Publisher
1	Product design and development	Eppinger, S., & Ulrich, K. (2015)	McGraw-Hill Higher Education.
2.	Human factors in product design: current practice and future trends.	Green, W., & Jordan, P. W. (Eds.). (1999)	CRC Press.
3.	Human factors in engineering and design.	Sanders, M. S., & McCormick, E. J. (1993)	McGRAW-HILL book company
4	Product design: fundamentals and methods (Vol. 2).	Roozenburg, N. F., & Eekels, J. (1995)	John Wiley & Sons Inc.

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NSQF Level-5		VID153: History of Furniture – I		Semester-II	
Teaching Scheme				Examination Scheme	
Lectures	03 hrs/Week			MSE	10 Marks
Practical	----			TA	15 Marks
Total Credits	03			ESE	25 Marks
				Duration of ESE	1.5 hours
<b>Course Outcomes (CO)</b>					
Students will be able to					
1.	To create awareness of History as an aid to design process				
2.	To understand the role of decorative styles in history of architecture and interior design.				
3.	To review the classic styles and oriental influences from the past				
4.	To make the students familiar with the study of history and background of the antique and modern furniture				
Unit	Course Content				Hours
<b>Unit 1</b>	Introduction to furniture history, Evolution of furniture over a period based on climate, social factors, life style, technical and stylistic development availability of materials and various movements in design. Introduction to furniture terminology based on methods of joinery techniques such as parquetry, marquetry gilding, turning, pierced and chip carving, ormolumounts.				(05)
<b>Unit 2</b>	Ancient civilization, art, architecture of Egypt. Furniture preserved in ancient pyramids, Ancient classical orders developed by them and various methods to overcome optical illusion, Furniture developed by Greeks and Romans by 3rd century A. D.				(05)
<b>Unit 3</b>	Medieval era in Europe, utilitarian furniture developed from Romanesque till Gothic times. Gothic cathedrals preserving art, manuscripts, furniture, paintings, sculptures, stain glass, Beginning of Renaissance - second golden era in Europe, age of discovery. Renaissance furniture of Italy and France.				(05)
<b>Unit 4</b>	Baroque and Rococo furniture of 17th century Europe, Neoclassical and Regency period in history of furniture - 18th century, Prominent names in the field of Architecture, sculptures, paintings international and Indian.				(05)
<b>Unit 5</b>	English furniture from 16th to 18th century. Tudor, Stuart, Jacobean, Restoration period, Queen Ann period, Gregorian period, Chippendale, Sheraton, Beginning of 19th century industrialization, Victorian Era in England, Art and Craft movement in design, Art Nouveau movement in art and furniture.				(05)
<b>Unit 6</b>	Art movements before and after world wars, Cubism of Picasso, De - stijl movement, Bauhaus school of Design and its impact on modern design, Art Deco movement, Oriental furniture and how it is different from western counterparts. Furniture of Japan and China, Indian furniture, traditional and colonial.				(05)

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Reference Book			
Sr. No.	Book	Author	Publisher
1	The Encyclopedia of Furniture: Third Edition	Joseph Aronson	Potter Style;
2.	Mid-Century Modern: Interiors, Furniture, Design-Details	Bradley Quinn	Conran Octopus Interiors
3.	Furniture Design	Jim Postell	Wiley publishers
4.	Furniture: A Concise History (World of Art)	Edward Lucie-Smith	Thames and Hudson
5.	History of Interior Design and Furniture: From Ancient Egypt to Nineteenth-Century Europe	Robbie. G. Blakemore	Wiley publishers
6.	Interior Design, 2nd edition, illustrated	John.F. Pile	H.N.Abrams

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## Maharashtra Institute of Technology, Aurangabad.

(An Autonomous Institute)

B.Voc. (Interior Design)

NSQF Level-5		VID154: Interior Services - II		Semester-II	
Teaching Scheme		Examination Scheme			
Lectures	03 hrs/Week.	MSE	10 Marks		
Practical	--	TA	15 Marks		
Total Credits	03	ESE	25 Marks		
		Duration of ESE	1.5 hours		

**Course Outcomes (CO)**

Students will be able to

1.	Introduction to the principles of Sanitation , Water supply , Electrification and Fire Protection to enable learner design appropriate service layout.	
2.	The student should have adequate knowledge of various services used in interior design projects, their types, characteristics, application, installation method and means, so that the student must be able to judiciously select services which are the most appropriate to a given situation/specific project.	
Unit	Course Content	Hours
Unit 1	Sanitation: Sanitary fittings, and fixing methods, different materials, different drawings, systems and disposal methods, sanitary layout of different interior schemes	(05)
Unit 2	Water supply: Different materials and fittings, Hot and cold water supply and its techniques underground and overhead tanks, water supply layouts of different interior schemes.	(05)
Unit 3	Electrification: Light, lighting design, light sources and listeners, natural light, artificial light, Electronic communication wiring. Generator / battery backup system, graphical symbols of electrical layout.	(05)
Unit 4	Fire Protection: Definition, structural fire precaution, rules, fire resistance, firefighting, equipment's and detection alarms, sprinklers etc. Fire resisting, retarding materials, means of escape, staircase lifts.	(05)
Unit 5	Introduction to Thermal and Sound insulation. Thermal conductivity of different material, Introduction to Acoustics and its application to interiors. Acoustical defects such as Echo, Reverberation, Sound foci and methods of correction, Sound absorbing materials. Methods of achieving thermal and sound insulation in different interior spaces.	(05)

**Reference Book**

Sr. No.	Book	Author	Publisher
1	Electrical Engineering hand book.	Dr Frith Abnwos and others,	
2.	Water supply and sanitary Engineering	Rangawala, S.C	Publishing house, Roorkee
3.	Interior Design Principles and practice	Pratap R.M (1988)	Standard publishers distribution, Delhi
4.	Architectural Acoustics, Principles and Design	Madan Mehta & James Johnson	
5.	Building services and Equipment's	Donald Hoff	Library of congress Cataloguing in Publication Data

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**Maharashtra Institute of Technology, Aurangabad.**

(An Autonomous Institute)

**B.Voc. (Interior Design)**

NSQF Level-5		VID171 : Workshop – II		Semester-II	
Teaching Scheme		Examination Scheme			
Practical	4 Hours/week	TA	25 Marks		
Credits	1.5	ESE/PE	25 Marks		
<b>Sr.No.</b>	<b>List of Experiments</b>				
1	Plaster of Paris Workshop:-Introduction to plaster as material, Process of mixing and its use in reproduction, Mould making and casting, Use for plaster with other materials like cloth, thread, wires etc.				
2	Bamboo and Cane Workshop:-The processing on bamboo (seasoning, treatment), Tools for working on bamboo, Precautions for safety in workshops, Cutting, Joinery details, strength, finishes, Application to construction and furniture Interior.				

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G. S. Mandal's Maharashtra Institute of Technology, Aurangabad. (An Autonomous Institute) B.Voc. (Interior Design)					
NSQF Level-5		VID172 : Design and Innovation Lab		Semester-II	
Teaching Scheme		Examination Scheme			
Practical	4 Hours/week	TA		25 Marks	
Credits	1.5	ESE/PE		25 Marks	
Sr.No.	List of Experiments				
1	<b>Knowledge Workshop:</b> - Source and apply design industry knowledge, Source and apply information on the history and theory of design. <ul style="list-style-type: none"> <li>• Project 1: Research on a Contemporary designer.</li> <li>• Project 2: Photograph and Report on Signage and Window display.</li> <li>• Project 3: Critique the Design of a Product.</li> </ul>				
2	<b>Design Concepts Workshop:-</b> Design concepts workshop road signs, Design concepts workshop zoological and botanical logo, Design concepts workshop T-shirts design.				
3	<b>Graphic Design Workshop:</b> - Produce Designs for Clothing Range, Shoes or CD Cover, Colour zones applied Colour assessment, Poster Design for an Opera or Ballet.				

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**Maharashtra Institute of Technology, Aurangabad.**  
(An Autonomous Institute)  
**B.Voc. (Interior Design)**

NSQF Level -5		VID181: On Job Training/Qualification Packs*		Semester-II	
Teaching Scheme				Examination Scheme	
Practical	7-8 weeks			TA	50 Marks
Credits	15			ESE/PE	150 Marks
Any Allied skill Sector Council Qualification Pack /Job role - NSQF level 5					
Any one On-Job-Training as per guidelines of AICTE & SSC for the given skill sets for 150 Marks External Assessment by NSDC/SSC					

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