



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	
Theory										
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
Lab/Practical										
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	-
On Job Training (OJT)/Qualification Packs*										
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	
Theory										
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
Lab/Practical										
5.	VID171	Workshop – II	1.5	-	2	-	25	25	50	-
6.	VID172	Design & Innovation Lab	1.5	-	2	-	25	25	50	-
On Job Training (OJT)/Qualification Packs*										
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	
Theory										
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
Lab/Practical										
5.	VID221	Interior Design (Residential)-Lab	1.5	-	2		25	25	50	-
6.	VID222	Auto CAD- I-Lab	1.5	-	2		25	25	50	-
On Job Training (OJT)/Qualification Packs*										
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	
Theory										
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
Lab/Practical										
5.	VID271	Interior Design – II (Commercial)	1.5	-	2	-	25	25	50	-
6.	VID272	Working Drawing – I	1.5	-	2	-	25	25	50	-
On Job Training (OJT)/Qualification Packs*										
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	
Theory										
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
Lab/Practical										
5.	VID321	Computer Presentation Techniques	1.5	-	2	-	25	25	50	-
6.	VID322	Working Drawing - II	1.5	-	2	-	25	25	50	-
On Job Training (OJT)/Qualification Packs*										
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	
Theory										
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
Lab/Practical										
3.	VID371	Project	9	-	4	-	50	50	100	-
On Job Training (OJT)/Qualification Packs*										
4.	VID381	Allied skill Sector Council Qualification Pack /Job role - NSQF level 7	15	-	7-8 weeks	--	50	150	200	-

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G. S. Mandal's			
Maharashtra Institute of Technology, Aurangabad.			
(An Autonomous Institute)			
B.Voc. (Interior Design)			
NSQF Level-6	VID201: Interior Design – I (Residential)		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
Course Outcomes (CO)			
Students will be able to			
1.	To understand and apply the basic design acumen and anthropometric Observations in the designing of Residential interior spaces.		
2.	Lear to design an Individual rooms (Living/ Dining not less than 25.00 Sq.mts& Kitchen not less than 12.00 Sq.mts.) of an apartment and are expected to present the study through detailed measured drawings and sketches. All specified areas are Carpet Areas.		
3.	Understand Human scale & proportion. Developing skills in manual presentation techniques.		
Unit	Course Content	Hours	
Unit 1	Introduction to parameters of design, anthropometrics and ergonomics, human activity and use of interior spaces and furniture.	(02)	
Unit 2	Analysis of design to perceive elements which define the character of the environment.	(07)	
Unit 3	Analysis of design process.	(07)	
Unit 4	Concept formation for design.	(07)	
Unit 5	Graphical project work (Pencil drawing of planning of any Flat/House/Bungalow)	(07)	
Reference Book			
Sr. No.	Book	Author	Publisher
1	Interior Design	Ahmed Kasu	TWAIN Pub. Bombay
2.	Sanskriti a manual of Interior Design Vol-1	Sudhir Diwan	Interior Affairs, Mumbai
3.	Space planning Basics	Karlen Mark	Van Nostrand Reinhold, New York, 1992.
4	Time Saver standards for Interior Design & space planning, 2nd edition,	Joseph D Chiara, Julius Panero, & Martin Zelnick	Mc-Graw Hill professional, 2001.
5	Human Dimension & Interior Space : A source book of Interior Design Page 18 44 Design Reference standards	Julius Panero & Martin Zelnick	Watson – Guptaill, 1979. Karlen

G. S. Mandal's Maharashtra Institute of Technology, Aurangabad. (An Autonomous Institute) B.Voc. (Interior Design)				
NSQF Level-6		VID202: Auto CAD –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	
Course Outcomes (CO)				
Students will be able to				
1.	Student shall learn to prepare architectural basic drawings, presentation drawings on a computer with CAD as drafting tool.			
2.	In this course, the student acquires knowledge of CAD - 2D, It is mandatory for the students to possess the above-mentioned skills adding to their proficiency so that they are able to draw 2D drawings using computers as well as create new designs using 2D software.			
Unit	Course Content			Hours
Unit 1	Introduction to CAD and relevant software: - Prepare a new drawing from scratch with the "Create Drawing", Simple drawing creation: - Save created drawing definition as a new drawing.			(06)
Unit 2	CAD- 2D :Use 2D commands to draw building components such as wall, door, window: - line, poly line, spline, 3d ploy line, rectangle, multi-line, construction line, arc, circle, ellipse, polygon, donut.			(06)
Unit 3	Use Modification commands to alter the existing drawing: - offset, copy, paste, erase, trim, break, mirror, array, move, rotate, stretch, lengthen, trim, extend, break, chamfer, fillet Replication of Drawn Objects: - Block, Insert block, Edit block, Explode block			(06)
Unit 4	Presentation Drawings :Make Presentation drawing using 2D commands and add text and dimensioning to them using appropriate commands:- Multi line text and text:- Writing text, formatting text style, Editing text			(06)
Unit 5	Dimensioning: - Formatting dimension style, Editing dimension style. Use of leader, Multiple hatch commands, Applying components from AutoCAD Libraries (Design Centre) to drawing Plot/Print: Print/plot the prepared drawing: -Plot dialogue box, Printing in PDF and Save as PDF			(06)
Reference Book				
Sr. No.	Book	Author	Publisher	
1	Harnessing AutoCAD Release -2012	Thomas A. Stellman, G. V. Krishnan, Robert A. Rhea	Delmar Publication	
2.	AutoCAD 2011	Ellen Finkelstein	Wiley India Pvt Ltd	
3.	Engineering Graphics with AutoCad	Kulkarni, D.M.Rastogi	PHI Learning	

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G. S. Mandal's Maharashtra Institute of Technology, Aurangabad. (An Autonomous Institute) B.Voc. (Interior Design)			
NSQF Level-6	VID203: History of Furniture -II		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
Course Outcomes (CO) Students will be able to			
1.	To create awareness of History as an aid to design process		
2.	To understand the role of Industrialization in history of architecture and interior design.		
3.	To review the different 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
Unit 1	English furniture from 16th to 18th century. Tudor, Stuart, Jacobean, Restoration period, Queen Ann period, Gregorian period, Chippendale, Sheraton.		(06)
Unit 2	Beginning of 19th century industrialization, Victorian Era in England, Art and Craft movement in design.		(06)
Unit 3	Art Nouveau movement in art and furniture, Art movements before and after world wars.		(06)
Unit 4	Cubism of Picasso, De-still movement, Bauhaus school of Design and its impact on modern design.		(06)
Unit 5	Art Deco movement, Oriental furniture and how it is different from western counterparts. Furniture of Japan and China, Indian furniture, traditional and colonial.		(06)
Reference Book			
Sr. No.	Book	Author	Publisher
1	A history of interior design, 2nd edition	John F. Pile	Laurence King Publishing, 2005
2.	History of Interior Design	Jeannie Ireland,	Air child publications, illustrated ed., 2009.
3.	A History of Interior Design,	Elaine, Michael Dywer, Christopher Mackinnon, Norman A. J BerisfordDenby	Rhodes International, 1983
4	Space, Time and Architecture: The growth of a new tradition, 4th ed.	Giedion Sigfried	Harvard University Press, Cambridge, 1962
5.	The History of Architecture in India: From the dawn of civilization to the End of the Raj	Tadgell Cristopher	Om Book Service, New Delhi, 1990.

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G. S. Mandal's Maharashtra Institute of Technology, Aurangabad. (An Autonomous Institute) B.Voc. (Interior Design)			
NSQF Level-6	VID204: Interior Services – III		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
Course Outcomes (CO)			
Students will be able to			
1.	To equip the learner with concept and principles of natural and mechanical ventilation and air conditioning.		
2.	Identify various needs of ventilation to enable learner design appropriate service layout.		
Unit	Course Content		Hours
Unit 1	Introduction to HVAC.		(06)
Unit 2	Principles of thermal comfort parameters for humans, Principles of natural ventilation.		(06)
Unit 3	Heat load calculations, Introduction to air conditioning systems (at least few lectures should be given by AC agency), methods of air conditioning, equipment and components used in air conditioning.		(06)
Unit 4	Selection criteria for air conditioning systems, Ducting principles, layout schemes and placement of air conditioner outlets in central air conditioning systems.		(06)
Unit 5	Mechanical ventilation and its application, Introduction to Acoustics and its application to interiors.		(06)
Reference Book			
Sr. No.	Book	Author	Publisher
1	Heating, cooling, Lighting Design	Norbert Lechner	Library of congress Cataloguing in Publication Data
2.	Building services and equipment's	Donald Hoff	Library of congress Cataloguing in Publication Data
3.	ABC of Air-conditioning	Ernest Tricomi	D. B. Taraporevala & sons
5	Building services and Equipment's	Donald Hoff	Library of congress Cataloguing in Publication Data

G. S. Mandal's Maharashtra Institute of Technology, Aurangabad. (An Autonomous Institute) B.Voc. (Interior-Design)					
NSQF Level-6		VID221 :Interior Design (Residential)-Lab		Semester-I	
Teaching Scheme			Examination Scheme		
Practical	2 Hours/week		TA	25 Marks	
Credits	1.5		ESE/PE	25 Marks	
Sr.No.	List of Experiments				
1	Analysis of design to perceive elements which define the character of the environment.				
2	Analysis of design process.				
3	Concept formation for design.				
4	Design of simple furniture with activities – seating, working, sleeping, storage. Design development including case studies.				
5	Concept development and design of dwelling unit. Graphical project work (Pencil drawing of planning of any Flat/House/Bungalow)				

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B.Voc. (Interior Design)			
NSQF Level-6	VID222 :Auto CAD –I-Lab		Semester-I
Teaching Scheme		Examination Scheme	
Practical	2 Hours/week	TA	25 Marks
Credits	1.5	ESE/PE	25 Marks
Sr.No.	List of Experiments		
1	Extension of presentation drawings like:-Site plan , Floor plans, Sections, Elevations		
2	Preparation of basic 3-D drawings		
3	Different rendering techniques		
4	Architectural drawing		
5	Complete a set of working drawing through Auto CAD		

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G. S. Mandal's Maharashtra Institute of Technology, Aurangabad. (An Autonomous Institute) B.Voc. (Interior Design)			
NSQF Level -6	VID231: On Job Training/Qualification Packs*		Semester-I
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 6			
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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G. S. Mandal's Maharashtra Institute of Technology, Aurangabad. (An Autonomous Institute) B.Voc. (Interior Design)			
NSQF Level-6	VID251: Interior Design- II (Commercial)		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.	To apply the basic design acumen and anthropometric observations in the designing of Commercial interior.		
2.	Students are expected to present the study through detailed measured drawings and sketches.		
3.	All specified areas are Carpet Areas.		
Unit	Course Content		Hours
Unit 1	One Interior Design problems of complete species with creative outlook (Hotels, Resorts, Hospitals, Educational buildings etc. – service industries)		(06)
Unit 2	Furniture design – Single items (Residential, commercial & Institutional)		(06)
Unit 3	Furniture design – Group of furniture elements along with surroundings.		(06)
Unit 4	Mind mapping, brainstorming with related stimuli and unrelated stimuli, positive techniques for creativity, creative pause, Focus, Challenge, alternatives, concepts, sensitizing techniques, group or Individual techniques.		(06)
Unit 5	One design problem of multi activity residential, commercial & Institutional single room design including case study & area maximum 50-80sq.ft. a) Conceptual sketches. b) Presentation drawing. c) Large scale details of furniture items.		(06)
Reference Book			
Sr. No.	Book	Author	Publisher
1	Interior Design	Ahmed Kasu	TWAIN Pub. Bombay
2.	Sanskriti a manual of Interior Design Vol-1	Sudhir Diwan	Interior Affairs, Mumbai
3.	Space planning Basics	Karlen Mark	Van Nostrand Reinhold, New York, 1992.
4	Time Saver standards for Interior Design & space planning, 2nd edition,	Joseph D Chiara, Julius Panero, & Martin Zelnick	Mc-Graw Hill professional, 2001.
5	Interior Design Illustrated, 2nd edition,	Francis.D. Ching & Corky Bingelli	Wiley publishers, 2004.
6	Human Dimension & Interior Space : A source book of Design Reference standards	Julius Panero & Martin Zelnick	Watson – Guptill, 1979. Karlen
7	Motion and Time Study, Design and Measurement of work,	Barner, R.M., (1980)	John Wiley, New York

G. S. Mandal's Maharashtra Institute of Technology, Aurangabad. (An Autonomous Institute) B.Voc. (Interior Design)			
NSQF Level-6	VID252: Interior Construction Technology – 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
Course Outcomes (CO) Students will be able to			
1.	The subject is focus on understanding the relationship between INTERIOR /architectural design, building materials, services etc.		
2.	To introduce basic materials used in construction, basic components of a building and method of construction and representation of the same.		
3	Emphasis shall be on reasoning and analysis while acquainting the students with different building elements.		
Unit	Course Content		Hours
Unit 1	Structural Components:- Introduction to structural components and elements of built structure.		(06)
Unit 2	Walling Systems: Brick walls for interior division of spaces and other uses (half brick and one brick thickness). Light weight concrete blocks, hollow blocks, aerated concrete blocks.		(06)
Unit 3	Openings: Doors, windows, ventilators with focus on different modes of operation and their jamb linings. Types of Lintels and Arches based on structure and materials. Structural glazing.		(06)
Unit 4	Doors: Types based on mode of operation, material and positioning.		(06)
Unit 5	Windows: Types based on mode of operation, material and positioning.		(06)
Reference Book			
Sr. No.	Book	Author	Publisher
1	Building Construction: Planning Techniques and methods of Construction, 19th ed.	Bindra, S.P. and Arora, S.P.	Dhanpat Rai Pub., New Delhi, 2000.
2.	Elementary Building Construction,	Moxley, R. Mitchell	Technical Press Ltd. Rangwala, S.C. Building Construction 22nd ed. Charota Pub. House Anand, 2004
3.	T.B. of Building Construction 19th ed.	Sushil Kumar	Standard Pub. Delhi, 2003.

G. S. Mandal's Maharashtra Institute of Technology, Aurangabad. (An Autonomous Institute) B.Voc. (Interior Design)				
NSQF Level-6		VID253: Quantity & Estimation		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.	To provide the student adequate knowledge to prepare the Estimate & find the cost of overall project of works. To provide the student adequate knowledge to prepare the Estimate & find the cost of overall project of works.			
2.	This course also enables the students to know the present material and labour cost and to differentiate between them. Thus, this course helps the students to work efficiently in the field of architecture and interior design.			
Unit	Course Content			Hours
Unit 1	Introduction: Define term Estimating and Costing. Objectives of Estimating. Types of Estimate: - Approximate Estimate, Detailed Estimate. Methods of preparing approximate Estimate: - Service Unit Method, Plinth Area Method, Cubical Content Method, Typical bay Method. Data required to Prepare detailed Estimate. Methods of preparing detailed Estimate: - Long wall-Short wall method, Center line Method. Procedure for Estimating the cost of work in order to implement an interior design project or to make products related to interior design like furniture, artifacts etc.			(06)
Unit 2	Rate Analysis : Definition, method of preparation, quantity & labour estimate for woodwork, steelwork, Aluminum work, glass & its rate for different, thickness & sections, finishing (enamel paint, duco paints, melamine, DU coats, Hand polishing, veneering and laminating) for walls & ceilings. Electrical & plumbing products, wiring, ducting etc., and laying of tiles & wall paneling in the estimate format of the project.			(06)
Unit 3	Detailed Estimate: Data required, factors to be considered, methodology of preparation, abstract of Estimate, contingencies, labour charges, bill of quantities, different methods of estimate for interior design works, methods of measurement of works.			(06)
Unit 4	Specification: Definition, purpose, procedure for writing specification for the purpose of calling tenders, types of specification. Specification for different item related to interior design project – woodwork for furniture window frames & pelmets, partitions etc also of materials like steel aluminium glass of various kind. Wall panelling & false ceiling of materials like aluminium, steel, wood, electrical, plumbing, air conditioning & firefighting equipment.			(06)
Unit 5	Costing of Fixtures & Fittings: Cost of the following items: electrical fitting like, luminaries, fan, cables, switches etc., tiles in skirting & dado, cement plaster, joinery in wood, steel & aluminium, painting to walls – cement paint, oil paints, distemper acrylic emulsion, enamel paint painting to joinery, varnishing, French polishing plumbing			(06)

	equipment's like piping, shower panels, cubicles, tubs, Jacuzzis, taps, motors, fountains, false ceiling of aluminum panels, steel & wooden frame work, thermocol etc. wall paneling of ceramic tiles & other tiles of materials suitable for the same, partitions made of materials like aluminum wood, steel etc		
Reference Book			
Sr. No.	Book	Author	Publisher
1	Estimating & Costing in Civil Engineering Theory & Practice	B.N.Dutta	UBS Publishers** Distributors Ltd., New Delhi, 1995.
2.	Estimating & Costing for Interior Designers	Diana Allison	Publishing house, Roorkee
3.	Hand book of Methods of Measurement of building works		SP:27(1987)-BIS
4.	Elements of Estimating and costing,	S. C. Rangwala,	Charoter publishing House, Anand, India, 1984
5.	The interior designers guide: to pricing, estimating budgeting	Theo Susan	

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G. S. Mandal's Maharashtra Institute of Technology, Aurangabad. (An Autonomous Institute) B.Voc. (Interior Design)			
NSQF Level-6	VID254: Interior Services – IV		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.	In this semester the learner will be introduced to the principles of lighting, electrical requirement as applicable for interior spaces.		
Unit	Course Content	Hours	
Unit 1	Illumination standards and artificial lighting design and lighting power density	(06)	
Unit 2	Day light integrated lighting systems, timers and sensors, Different types of illuminations.	(06)	
Unit 3	Study of lighting fixtures and fittings used in interior spaces, special lighting systems for malls or displays.Planning lighting for different work areas, Matching light with site such as drawing room, bed room, study, bath, kitchen, etc. and public places like offices, theatres, exhibition, display and such other areas including basic knowledge of materials, finishes and maintenance	(06)	
Unit 4	Provisions of standards and energy codes related to interior electrical services, Automation in lighting industry.	(06)	
Unit 5	Conduit - types and uses. Fixing of electrical fixtures and switches. Preparation of electrical layout for residences by symbolic representation as per IS : 962/1967 includingselection of Matchingfittings.Study of different wiring systems.	(06)	
Reference Book			
Sr. No.	Book	Author	Publisher
1	Interior Design, 2nd edition,	John.F. Pile,	illustrated, H.N.Abrams, 1995.
2.	Lighting : In Architecture and Interior Design,	Wanda jankowski,	pbcintl,1995.
3.	Concepts and practice of Architectural Day lighting,	Moore Fuller,	Van Nostrand Reinholdco., New York, 1985.
5	Concepts in Architectural lighting	David Egan. M.	Mcgraw Hill Book company, New York,1983.
6	Mechanical and Electrical Equipment for Buildings	Walter T. Grondzik, Alison G. Kwok, Benjamin Stein	John Wiley & Sons

G. S. Mandal's Maharashtra Institute of Technology, Aurangabad. (An Autonomous Institute) B.Voc. (Interior Design)			
NSQF Level-6	VID271 :Interior Design II (Commercial) –Lab		Semester-II
Teaching Scheme		Examination Scheme	
Practical	2 Hours/week	TA	25 Marks
Credits	1.5	ESE/PE	25 Marks
Sr.No.	List of Experiments		
1	Presentation drawings, Enlarge detail drawings, Service layout drawings, views etc. to understand clearly concept of design. Area of Interior project should be @ 300.00 sq.mt. Minimum		
2	Furniture design – Single items (Residential, commercial & Institutional)		
3	Furniture design – Group of furniture elements along with surroundings.		
4	One design problem of multi activity residential, commercial & Institutional single room design including case study & area maximum 50 -80 sqft. a) Conceptual sketches. b) Presentation drawing. c) Large scale details of furniture items.		

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G. S. Mandal's Maharashtra Institute of Technology, Aurangabad. (An Autonomous Institute) B.Voc. (Interior Design)			
NSQF Level-6	VID272 : Working Drawing -I- Lab		Semester-II
Teaching Scheme		Examination Scheme	
Practical	2 Hours/week	TA	25 Marks
Credits	1.5	ESE/PE	25 Marks
Sr.No.	List of Experiments		
1	Working drawing & details of Interior Design project.		
2	All furniture, flooring, ceiling, electrical, water supply, drainage layouts with details.		
3	In details of furniture, doors, windows etc. of all types with specifications.		
4	The drawings shall be sufficient to understand the design & fulfil the details required for estimation, tender form.		

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<small>G. S. Mandal's</small> Maharashtra Institute of Technology, Aurangabad. (An Autonomous Institute) B.Voc. (Interior Design)			
NSQF Level -6	VID281: 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 6			
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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