

**BACHELORS OF DESIGN
(INTERIOR DESIGN)**

MRSPTU
STUDY SCHEME

1st Semester

Total Contact Hours = 29

Total Marks = 800

Total Credits = 20

SEMESTER 1 st			Contact Hrs.				Marks			Credits	Duration of Exam Hrs
Subject Code	Subject Name	Category	L	T	S	P	Int.	Ext.	Total		
BDID1-001	Introduction to Interior design	Pre-Requisite	2	0	0	0	100	0	100	0	No Exam
BDID1-100	Interior Design Studio – I	Core	2	0	4	0	40	60	100	4	3
BDID1-101	Manual Drawing	Core	2	0	2	0	40	60	100	3	3
BDID1-102	Manual Graphics	Core	2	0	2	0	40	60	100	3	3
BDID1-103	Building Materials	Core	2	0	0	0	40	60	100	2	3
BDID1-104	Elements of Interior Space	Minor	2	0	2	0	40	60	100	3	3
	Model Making	SEC	1	0	0	4	60	40	100	3	No Exam (External Viva -Voce)
BMNCC0-041	Drug Abuse: Problem, Management & Prevention	VAC	2	0	0	0	40	60	100	2	3
BMNCC0-010	Universal Human Values - I	VAC	22 Hrs (to be completed during SIP)*				Satisfactory/ Unsatisfactory			No Exam	
Total			15	0	10	4	400	400	800	20	

- There will be an Induction Programme for 3 weeks before the start of classes, which will be a part Universal Human Values - I.
- Educational Tour of duration up to 4 days during the semester may be undertaken.

2nd Semester

Total Contact Hours = 26

Total Marks = 700

Total Credits = 20

SEMESTER 2 nd			Contact Hrs.				Marks			Credits	Duration of Exam Hrs
Subject Code	Subject Name	Category	L	T	S	P	Int.	Ext.	Total		
BDID2-105	Interior Design Studio – II	Core	2	0	4	0	60	40	100	4	6
BDID2-106	Materials and Construction - I	Core	2	0	4	0	40	60	100	4	3
BDID2-107	History of Design	Minor	2	0	0	0	40	60	100	2	3
BDID2-108	Structure System	Minor	2	0	2	0	40	60	100	3	No Exam (External Viva -Voce)
	Digital Graphics	SEC	2	0	0	2	40	60	100	3	No Exam (External Viva -Voce)
BHSMC0-026	Universal Human Values - II	VAC	1	1	0	0	100	0	100	2	No Exam
	English Composition & Communication	AEC	2	0	0	0	40	60	100	2	3
Total			13	1	10	2	360	340	700	20	

- An exit option shall be provided at the end of second semester after scoring 40 credits where the student shall be awarded UG certificate in Interior design. The UG Certificate will be provided only after 8 weeks of summer internship of 4 Credits.
- The students who opt to continue the course shall undergo 4 weeks of summer internship after 2nd semester which shall be evaluated in 3rd semester.
- Educational Tour of duration up to 4 days during the semester may be undertaken.

3rd Semester

Total Contact Hours = 23

Total Marks = 800

Total Credits = 20

SEMESTER 3 rd			Contact Hrs.				Marks			Credits	Duration of Exam Hrs
Subject Code	Subject Name	Category	L	T	S	P	Int.	Ext.	Total		
BDID3-200	Interior Design Studio – III	Core	2	0	4	0	60	40	100	4	6 (External viva voce)
BDID3-201	Materials & Construction- II	Core	2	0	4	0	40	60	100	4	3
BDID3-202	History of Interior Design	Core	2	0	0	0	40	60	100	2	3
BDID3-203	Interior Services- I	Minor	2	0	0	0	40	60	100	2	3
BDID3-204	Interior landscape	Minor	2	0	0	0	40	60	100	2	3
	Advance Digital Graphics	SEC	1	0	0	2	40	60	100	2	No Exam (External Viva -Voce)
	Climatology	MDC	1	1	0	0	40	60	100	2	3
	Summer Internship (4 Weeks)	SI	0	0	0	0	100	0	100	2	No Exam (Internal Viva -Voce)
Total			12	1	8	2	360	400	800	20	

4th Semester

Total Contact Hours = 26

Total Marks = 900

Total Credits = 20

SEMESTER 4 th			Contact Hrs.				Marks			Credits	Duration of Exam Hrs
Subject Code	Subject Name	Category	L	T	S	P	Int.	Ext.	Total		
BDID4-205	Interior Design Studio – IV	Core	2	0	4	0	40	60	100	4	6 (External viva voce)
BDID4-206	Materials & Construction- III	Core	2	0	4	0	40	60	100	4	3
BDID4-207	Furniture Design	Core	2	0	0	0	40	60	100	2	3
BDID4-208	Interior Services- II	Minor	2	0	0	0	40	60	100	2	3
BDID4-209	Lighting and Illumination	Minor	2	0	0	0	40	60	100	2	3
	Physical Modelling and Visualization	MDC	1	0	0	2	60	40	100	2	No Exam (External Viva -Voce)
	Calligraphy	MDC	2	0	0	0	40	60	100	2	3
	The Maharaja of People	VAC	2	0	0	0	40	60	100	2	3
	Educational Tour-I		0	0	0	0	100	0	100	0	No Exam (Internal Viva -Voce)
Total			15	0	7	4	440	460	900	20	

MRSPTU BACHELOR OF DESIGN (INTERIOR DESIGN) SYLLABUS 2025 BATCH ONWARDS

- An exit option shall be provided at the end of 4th semester after scoring 80 credits where the student shall be awarded UG Diploma in Interior design. The UG Diploma will be provided only after 8 weeks of summer Internship of 4 Credits.
- The students who opt to continue the course shall undergo 4 weeks of summer internship after 4th semester which shall be evaluated in 5th semester.
- Educational Tour-I of up to 07 days during the semester shall be undertaken and evaluated.

5th Semester

Total Contact Hours = 22

Total Marks = 700

Total Credits = 20

SEMESTER 5 th			Contact Hrs.				Marks			Credits	Duration of Exam Hrs
Subject Code	Subject Name	Category	L	T	S	P	Int.	Ext.	Total		
BDID5-300	Interior Design Studio – V	Core	2	0	4	0	60	40	100	4	6 (External viva voce)
BDID5-301	Materials & Construction- IV	Core	2	0	4	0	40	60	100	4	No Exam (External Viva -Voce)
BDID5-302	Contemporary Interior Designers	Core	2	0	0	0	40	60	100	2	3
BDID5-210	Interior Services- III	Minor	2	0	0	0	40	60	100	2	3
BDID5-211	Interior Aesthetics	Minor	2	0	0	0	40	60	100	2	3
	Journalism and Report Writing	AEC	2	0	0	0	40	60	100	2	3
	Personality Development	AEC	2	0	0	0	40	60	100	2	3
	Summer Internship (4 Weeks)	SI	0	0	0	0	100	0	100	2	No Exam (Internal Viva -Voce)
Total			14	0	8	0	300	400	700	20	

- Field Visits/Workshops / Expert Sessions / Visits to Exhibition venues located within the Northern Region (India) shall be planned.

6th Semester

Total Contact Hours = 26

Total Marks = 700

Total Credits = 20

SEMESTER 6 th			Contact Hrs.				Marks			Credits	Duration of Exam Hrs
Subject Code	Subject Name	Category	L	T	S	P	Int.	Ext.	Total		
BDID6-303	Interior Design Studio – V	Core	2	0	4	0	60	40	100	4	6 (External viva voce)
BDID6-304	Vernacular Documentation	Core	2	0	4	0	60	40	100	4	No Exam (External Viva -Voce)
BDID6-305	Interior Design Codes	Core	2	0	0	0	40	60	100	2	3
BDID6-212	Estimation and Costing	Minor	1	0	0	2	40	60	100	2	3
Department Elective – I (Select any one)											
BDID6-213	Traditional Interiors	Minor (Elective)	2	0	0	0	40	60	100	2	3
BDID6-214	Project Management		2	0	0	0	40	60	100		3
	Professional Communication	AEC	2	0	0	0	40	60	100	2	3
	Lifestyle accessories design	MDC	2	0	0	2	40	60	100	3	3
	Photography and	SEC	0	0	0	2	40	60	100	1	No Exam

MRSPTU BACHELOR OF DESIGN (INTERIOR DESIGN) SYLLABUS 2025 BATCH ONWARDS

	Portfolio										(External Viva -Voce)
Total			11	0	8	6	360	380	700	20	

- An exit option shall be provided at the end of 6th semester after scoring 120 credits where the student shall be awarded B.Sc in Interior design.

7thSemester

Total Contact Hours = 40

Total Marks = 100

Total Credits = 20

SEMESTER 7 th			Contact Hrs.				Marks			Credit	Duration of Exam Hrs
Subject Code	Subject Name	Category	L	T	S	P	Int.	Ext.	Total		
BDID7-400	Practical training of 24 weeks duration	Core	0	0	0	0	40	60	100	20	No Exam (External Viva -Voce)
Total			0	0	0	40	40	60	100	20	

8thSemester

Total Contact Hours = 32

Total Marks = 500

Total Credits = 20

SEMESTER 8 th			Contact Hrs.				Marks			Credits	Duration of Exam Hrs
Subject Code	Subject Name		L	T	S	P	Int.	Ext	Total		
BDID8-401	Interior Design Studio – VII (Dissertation /Research Project)	RP/ Dissertation	2	2	0	16	40	60	100	12	No Exam (External viva voce)
OR											
BDID8-306	Conservation & Adaptive Reuse	Minor	2	2	0	0	40	60	100	4	3
BDID8-307	Sustainable Interiors	Minor	2	2	0	0	40	60	100	4	3
BDID8-308	Advanced Building materials & Technologies	Minor	2	2	0	0	40	60	100	4	3
BDID8-309	Research Methodology	Minor	2	0	0	0	40	60	100	2	3
BDID8-310	Seminar	Minor	1	1	0	0	100	0	100	2	No Exam (Internal viva voce)
Department Elective – II (Select any one)											
BDID8-311	Green Interiors	Minor (Elective)	2	0	0	2	40	60	100	2	3
BDID8-312	Interior Maintenance										
Department Elective – III(Select any one)											
BDID8-313	Product design	Minor (Elective)	2	0	0	2	40	60	100	2	3
BDID8-314	Set Design										
Total			9	3	0	20	260	240	500	20	

- Students who opt for Bachelor's of Design (Interior Design) honours with Research shall undertake Dissertation / Research project for 12 Credits while Students opting for B.Design (Interior Design) Honours shall study 3 subjects of 4 credits each.

1st SEMESTER

MRSPTU

INTRODUCTION TO INTERIOR DESIGN**Subject Code: BMNCC0-053****Duration: 30Hrs**

L	T	S	P	C
2	0	0	0	0

Duration: 30 Hrs.**1. COURSE PREREQUISITES**

Nil

2. COURSE OBJECTIVES

To appraise students with the knowledge, skills, and abilities necessary for a successful career in the field.

3. COURSE OUTCOME

- To Understanding the different methods of design presentation and its deliver.
- To understand the basics of Interior design and its implementation.
- To understand the larger scope of Interior design associated fields.
- Understanding the impact of Interior Project Management on the built environment.
- To understand the role of Portfolio, Internship & its contribution towards professional practice.

UNIT-I (10Hrs.)**Fundamentals of Design and Applications**

- Introduction to basic design principles and elements.
- Design process: Problem definition, research, concept generation, sketching, development, presentation, spatial relationships and proportions.
- Architectural Drafting and Drawing, Computer-Aided Design(CAD), Interior Materials and Finishes, Manual Graphics

UNIT-II (10Hrs.)**Interior Design and Allied Fields**

- Interior Materials and Finishes, Interior Lighting, Furniture Design Color Theory and Application, Environmental Psychology
- Project Management

UNIT-III (10 Hrs.)**Portfolio, Internship and Professional Practices**

- Presentation skills for design projects, practicum to provide real-world experience Ethics and responsibilities, Client communication and Project presentation

RECOMMENDED BOOKS

1. Architecture- Form, Space and Order by Francis D.K. Ching
2. The Interior design Handbook: Furnish, Decorate and style your space by Frida Ramstedt.
3. The Interior design Reference & Specification Book by Chris Grimley.
4. Building drawing, 3rd edition – M G Shah, C M Kale, Tata Mcgraw – Hill publishing, New Delhi.
5. S.C. Rangwala - Engineering materials –Charotar Publishing, Anand
6. Architectural Graphics by Francis D.K. Ching
7. Interior Design Illustrated by Francis D.K. Ching

INTERIOR DESIGN STUDIO - I**Subject Code: BDID1-100**

L	T	S	P	C
2	0	4	0	4

Duration: 90Hrs**1. COURSE PREREQUISITES**

Nil

2. COURSE OBJECTIVES

To make students familiar with various factors affecting the aesthetic and functional aspects of design through training them in two-dimensional and three dimensional design compositions.

3. COURSE OUTCOME

- Understanding various design principles such as emphasis, balance, contrast, Harmony, Unity etc., and applying them in two-dimensional and three-dimensional compositions.
- Understanding and applying design elements such as Point, Line, shape, color, texture, area, mass, volume etc.
- Critical analysis of design of existing manmade objects, aiding self-criticism of design and inspiration from nature as a source for design.
- Understanding the process involved in design including analysis, synthesis and evaluation.
- To understand the evolution of design from basic concepts to design outputs.
- To collaborate both technical knowledge along with creativity, theme and rendering output.

UNIT-I (30Hrs)

Designs involving various elements such as point, line, shape, colour and texture – applied to compositions such as mural design, fabric design, mosaics, stained glass, engraving, block printing, collage etc. – involving all the principles of composition.

UNIT-II (30Hrs)

3D sculptures involving platonic solids, wooden sculptures applying different types of carpentry joints, design and execution of POP made objects such as: cornices, moldings, brackets, etc., Metal and terracotta sculptures.

Study and critical analysis of man-made objects – their purpose, functional suitability, formal appeal, etc. – evolving suggestions for improvement of the same.

UNIT-III (30Hrs)

Study and analysis of forms, patterns and color schemes in nature. Abstraction of natural forms and design of three-dimensional objects and two-dimensional patterns inspired by them.

RECOMMENDED BOOKS

1. Paul Laseau, Graphic Thinking for Architects and Designers, John Wiley & Sons.
2. Trewin Copple stone, Arts in Society, Prentice Hall Inc.
3. H.Gardner, Art through Ages.
4. DavidFair, Design Graphics, Hodder and Stoughton.
5. Architectural arts and Sculpture, Guild Source Books.
6. Virginia Cobb Watson, Discovering the Inner Eye, Guptill Publication.
7. Johanness Itten, the Art of Colour.
8. H.H. Arnason, History of Modern Art

INSTRUCTIONS TO QUESTION PAPERSETTER

1. One compulsory question is to be set from the entire syllabus.
2. The topic of the project is to be displayed on College/Institute Notice Board 10 days in advance.

MANUAL DRAWING**Subject Code: BDID1-101**

L	T	S	P	C
2	0	2	0	3

Duration: 75 Hrs**1. COURSE PREREQUISITES**

Basic knowledge of technical drawing, fundamental geometry, and spatial visualization skills

2. COURSE OBJECTIVES

To develop technical skills in measured drawing, orthographic and isometric projections, and perspective views for effective design communication.

3. COURSE OUTCOME

- Apply appropriate lettering styles and scales in measured drawings.
- Develop accurate measured drawings of interior elements.
- Construct orthographic projections of various geometric entities.
- Analyze and draft sections of primary solids in geometrical drawings.
- Generate isometric projections of platonic and circular solids.
- Enhance visualization and drafting skills through sociography of perspective views.

UNIT-I (25 Hrs)**MEASURED DRAWING**

- Introduction to measured drawing techniques
- Lettering: Types and application in interior drawings
- Scale: Importance, types, and applications

GEOMETRICAL DRAWING

- Introduction to Orthographic Projections
- Projection of point, lines and planes
- Projection of solids: cube, cuboids, prism, pyramid, cone, cylinder, and sphere
- Sections of solids: pyramids, cones, cylinders, prisms

UNIT-II (25 Hrs)**ISOMETRIC DRAWING**

- Introduction to isometric projection
- Isometric drawing of platonic solids: cube, cuboids, hexagonal prism, pyramids
- Isometric projection of circular solids: cone and cylinder
- Application of isometric projection in interior design

UNIT-III (25 Hrs)**PERSPECTIVEVIEW &SOCIOGRAPHY**

- One-point & Two - point perspective of interior spaces
- Sociography in plans and elevations.

RECOMMENDED TEXT AND REFERENCE BOOKS

1. Bhatt, N.D. Engineering Drawing.
2. Francis D.K. Ching, Architectural Graphics.
3. P.S. Gill, Engineering Drawing
4. Geometrical drawing for art students, 2nd revised edition - I.H.Morris, Orient Longman, Calcutta, 1995.

INSTRUCTIONS TO QUESTION PAPERSETTER

- From Unit I, two questions will be set, and students must answer one.
- From Units II and III, three questions will be set, and students must answer two(selecting at least one from each unit).
- Each question carries equal marks and may be divided into sub-parts.

MANUAL GRAPHICS**Subject Code: BDID1-102**

L	T	S	P	C
2	0	2	0	3

Duration: 75 Hrs**1. COURSE PREREQUISITES**

Basic drawing skills and familiarity with fundamental geometric forms.

2. COURSE OBJECTIVES

To develop students' manual drawing and sketching skills, focusing on perspective, textures, shading, and color applications in interior design representation.

3. COURSE OUTCOME

- Demonstrate proficiency in basic manual graphic exercises.
- Apply principles of perspective views using vanishing points.
- Effectively use line techniques to represent different textures.
- Create detailed indoor and outdoor sketches using various media.
- Understand and apply colour theories and colour schemes in design representation.
- Develop shading techniques to enhance depth and realism in sketches.

UNIT-I (25 Hrs)**FUNDAMENTALS OF MANUAL GRAPHICS**

- Basic exercises in freehand sketching and manual drawing
- Still life and basic forms
- Effect of lines in representing textures
- Understanding different types of perspective views using vanishing points
- Shading exercises for depth and realism

UNIT-II (25 Hrs)**INDOOR AND OUTDOOR SKETCHING**

Outdoor sketching:

- Lawns, bushes, water bodies, plants, and trees
- Application of different sketching media

Indoor sketching:

- Furniture, lighting elements
- Corridor, lobby, classroom representations

UNIT-III (25 Hrs)**MATERIALS, LIGHTING, AND COLLABORATION**

- Introduction to colour theories and colour wheel
- Exploration of various colour schemes
- Application of tints and shades in manual graphics
- Use of colour in enhancing spatial perception

RECOMMENDED TEXT AND REFERENCE BOOKS

1. Francis D.K. Ching, Design Drawing.
2. Betty Edwards, Drawing on the Right Side of the Brain.
3. James Richards, Freehand Drawing and Discovery.
4. Geometrical drawing for Art students, I.H. Morris, Orient Longman, Chennai
5. Robert W. Gill, 'Rendering with Pen and Ink', Thames & Hudson London, 2008.
6. Jaxtheimer, 'How to paint and Draw'.

INSTRUCTIONS TO QUESTION PAPERSETTER

- Set four questions covering the entire syllabus. Students must answer three, choosing at least one from each unit.
- Each question carries equal marks and may be divided into sub-parts.

BUILDING MATERIALS**Subject Code: BDID1-103**

L	T	S	P	C
2	0	0	0	2

Duration: 30Hrs**1. COURSE PREREQUISITES**

Basic awareness of built spaces and an interest in understanding materials.

2. COURSE OBJECTIVES

To introduce students to various building materials with a focus on interior applications, their properties, and selection criteria.

3. COURSE OUTCOME

- Understand properties and applications of building materials.
- Select appropriate materials for interior spaces.
- Apply materials effectively in design projects.
- Recognize new and sustainable material trends.
- Assess materials based on cost, durability, and impact.
- Integrate eco-friendly materials in interiors.

UNIT-I (30Hrs)**INTRODUCTION TO BUILDING MATERIALS & FUNDAMENTALS**

- Classification of materials: Natural vs. Man-made, Traditional vs. Modern
- Factors influencing material selection in interior spaces
- Basic properties of materials: Strength, Durability, Workability, Sustainability
- Role of materials in aesthetics, functionality, and user experience
- Introduction to eco-friendly and sustainable materials

UNIT-II (30Hrs)**STRUCTURAL & FINISHING MATERIALS**

- Structural: Brick, Stone, Concrete, Timber, Steel, Glass – characteristics & applications
- Surface Finishes: Plaster, Paints, Wallpapers, Laminates, Veneers – types, application techniques, and selection criteria
- Flooring Materials: Tiles (Ceramic, Vitrified, Porcelain), Natural Stone, Wood, Vinyl, Epoxy – advantages, limitations, and maintenance
- Ceiling Materials: POP, Gypsum boards, wooden ceilings, Metal panels, Fabric ceilings

UNIT-III (30Hrs)**MATERIALS, LIGHTING, AND COLLABORATION**

- Wood & Wood-based Products: Plywood, MDF, Particle Board, Block Board, Bamboo – properties and uses
- Glass & Acrylics: Types of glass and acrylics, properties and applications
- Metal & Alloys in Interiors: Aluminum, Stainless Steel, Copper – uses in furniture, partitions
- Plastic, Composites & Smart Materials: Polycarbonate, FRP, 3D-printed materials, Smart Glass, Phase Change Materials

RECOMMENDED TEXT AND REFERENCE BOOKS

- “Building Materials” by S.K. Duggal
- “Building Materials and Construction” by S.C. Rangwala
- “Interior Design Materials and Specifications” by Lisa Godsey
- “Materials for Interior Environments” by C. Binggeli

INSTRUCTIONS TO QUESTION PAPER SETTER

- Set four questions covering the entire syllabus. Students must answer three, choosing at least one from each unit.
- Each question carries equal marks and may be divided into sub-parts.

ELEMENTS OF INTERIOR SPACE**Subject Code: BDID1-104**

L	T	S	P	C
2	0	2	0	3

Duration: 30Hrs▪ **COURSE PREREQUISITES**

Nil

▪ **COURSE OBJECTIVES**

To develop an understanding of point, line & planar elements in defining an Interior space.

▪ **COURSE OUTCOME**

- To develop an understanding of various degrees of enclosure, various types of relationship between spaces.
- Understanding of the various effects that could be created by manipulating the enclosing elements such as walls, roof etc.
- Understanding the types of the door and their implementations.
- Knowing about the detailing doors and windows
- Understanding on site construction work.
- Knowing about the detailing types of walls, roofs and floors.

UNIT-I (10 Hrs)**WALL PLANES**

Use of wall planes to create architectural effects-Natural patterns and textures obtained in masonry walls – articulation of openings in wall planes – effect of tilting the vertical axis of wall planes - niches and alcoves - cornices and mouldings etc.

ROOF PLANES

Different types and their visual impact – articulation of skylights and roof apertures – false ceiling – materials, finishes & patterns - types of false ceiling – various types of lighting.

FLOOR PLANES

Various types of flooring – mosaic, tile, stone etc. – aesthetic effects created by flooring material and pattern - graphic patterns and their visual effects – construction details – skirting, moulding, embossing etc. Floor finishes and floor coverings.

UNIT-II (10Hrs)**DOORS, WINDOWS AND VENTILATORS, ETC.**

Doors – types – flush doors, panelled doors, braced doors, carved wooden doors, metal embossed doors, glazed doors and their relevance – various materials and articulation.

Windows – various types (casement, horizontal sliding, vertical sliding, hopper, pivoted) – various shapes (arched, circular, triangular etc.) various materials (wood, aluminum, steel, PVC) and their suitability to that space – ventilators – louvered, paneled etc.

UNIT-III (10Hrs)**CASESTUDIES**

Casestudies for manipulation of wall, floor and roof planes to create various architectural effects– case studies of various doors, windows and ventilators – case studies of columns, beams etc. for interior effects.

RECOMMENDED BOOKS

1. The making of interiors – An introduction- Allen Tate- Harper & Row Publishers, New York, 1987.
2. Interior Design & Decoration, Fourth Edition, Sherrill Whiton-Prentice Hall, 1974.
3. Interior lighting for Designers, Third edition–Gary Gordon & Jamco L. Nuckolls–

JohnWiley & Sons, New York, 1995.

4. The Encyclopaedia of Decorative Styles – William Hardy & Steve Adams – New Burlington books, London, 1988.

INSTRUCTIONS TO QUESTION PAPERSETTER

1. One compulsory question containing six questions of 2 marks (12 marks), each requiring short answers, are to be set from the entire syllabus.
2. The examiner is required to set another six questions (two from each unit), out of which the students are required to attempt any four questions (selecting at least one from each unit).

MRSPTU

MODEL MAKING**Subject Code: BDID1-**

L	T	S	P	C
1	0	0	4	3

Duration: 30Hrs**1. COURSE PREREQUISITES**

Nil

2. COURSE OBJECTIVES

To introduce the students basics of Model making with various materials.

3. COURSE OUTCOME

- Understand basic carpentry techniques.
- Knowledge of Joinery techniques and various model making techniques.
- Understand method using different materials.
- Tools used in carpentry.
- Model making techniques using different materials.
- Methods of Preparations of Model

UNIT-I (10 Hrs)**INTRODUCTION TO MODEL MAKING**

Introduction to concepts of model making and various materials used for model making

BLOCK MODELLING

- Preparation of base for models using wood or boards
- Introduction to block models of buildings (or 3D Compositions) involving the usage of various materials like Thermocol, Soap/Wax, Boards, Clay etc.

DETAILED MODELLING

- Making detailed models which include here presentation of various building elements like Walls, Columns, Steps, Windows/glazing, Sunshades, Handrails using materials like Mount board, Snow-white board, acrylic sheets.
- Representing various surface finishes like brick/stone representation, stucco finish etc.
- Various site elements – Contour representation, Roads/Pavements, Trees/Shrubs, Lawn, Water bodies, Street furniture, Fencing etc.

UNIT-II (10Hrs)**INTERIOR MODELS OF INTERIOR SPACES**

- Making scaled models of the various interior spaces with furniture such as
1) Residences 2) Offices 3) Retail Spaces 4) Recreational Spaces

UNIT-III (10Hrs)**CARPENTRY**

Introducing techniques of planning, chiseling & joints in timber to learn the use of hand tools. Exercise involving the design of simple furniture and making a model of the same.

RECOMMENDED BOOKS

1. BENN, The book of the House, Ernest Benn Limited, London
2. Janssen, Constructional Drawings & Architectural models, Karl Kramer Verlag Stuttgart, 1973.
3. Harry W. Smith, The art of making furniture in miniature, E.P. Dutton Inc., New York, 1982.
4. H.S. Bawa, 'Carpentry-A Complete Guide',
5. Miller, 'Carpentry and Construction'

NOTE: Evaluation is to be done through viva voce by external examiner appointed by the University at collage level. Answer sheets after the University exam shall be retained at collage level for the viva-voce.

DRUG ABUSE: PROBLEM, MANAGEMENT & PREVENTION**Subject Code: BMNCC0-041**

L	T	S	P	C
2	0	0	0	2

Duration: 30Hrs**UNIT-I (6Hours)**

Meaning of Drug Abuse: Meaning: Drug abuse, Drug dependence and Drug addiction.
Nature and extent of drug abuse in India and Punjab.

UNIT-II (8 Hours)

Consequences of Drug Abuse: Individual: Education, Employment and Income. Family: Violence. Society: Crime. Nation: Law and Order problem.

UNIT-III (8Hours)

Prevention of Drug Abuse: Role of Family: Parent-child relationship, Family support, supervision, shipping values, active scrutiny. School: Counseling, Teacher as role-model, Parent-teacher-health professional coordination, Random testing on students.

UNIT-IV (8Hours)

- Treatment and Control of Drug Abuse: Medical Management: Medication for treatment and to reduce withdrawal effects. Psychological Management: Counseling, Behavioral and Cognitive therapy.
- Social Management: Family, Group therapy and Environmental intervention. Treatment: Medical, Psychological and Social Management. Control: Role of Media and Legislation.

RECOMMENDED BOOKS:

1. Ram Ahuja, 'Social Problems in India', Rawat Publications, Jaipur, 2003.
2. 'Extent, Pattern and Trend of Drug Use in India', Ministry of Social Justice and Empowerment, Govt. of India, 2004.
3. J.A. Inciardi, 'The Drug Crime Connection', Sage Publications, Beverly Hills, 1981.
4. T.Kapoor, 'Drug Epidemic among Indian Youth', Mittal Publications, New Delhi, 1985.
5. Kessel, Neil and Henry Walton, 'Alcoholism, Harmond Worth', Penguin Books, 1982.
6. Ishwar Modi and Shalini Modi, 'Addiction and Prevention', Rawat Publications, Jaipur, 1997.
7. 'National Household Survey of Alcohol and Drug Abuse', Clinical Epidemiological Unit, All India Institute of Medical Sciences, New Delhi, 2003 & 2004.
8. Ross Coomber and Others, 'Key Concept in Drugs and Society', Sage Publications, New Delhi, 2013.
9. Bhim Sain, 'Drug Addiction Alcoholism, Smoking Obscenity', Mittal Publications, New Delhi, 1991.
10. Ranvinder Singh Sandhu, 'Drug Addiction in Punjab: A Sociological Study', Guru Nanak Dev University, Amritsar, 2009.
11. Chandra Paul Singh, 'Alcohol and Dependence among Industrial Workers', Shipra, Delhi, 2000.
12. S.Sussman and S.L.Ames, 'Drug Abuse: Concepts, Prevention and Cessation', Cambridge University Press, 2008.

13. P.S.Verma, 'Punjab's Drug Problem: Contours and Characteristics', Vol.LII, No.3, P.P.40- 43, Economic and Political Weekly, 2017. 1
14. 'World Drug Report', United Nations Office of Drug and Crime, 2016.
15. 'World Drug Report', United Nations Office of Drug and Crime, 2017.

MRSPTU

2nd SEMESTER

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INTERIOR DESIGN STUDIO - II**Subject Code: BDID2-105**

L	T	S	P	C
2	0	4	0	4

Duration: 90Hrs**1. COURSE PREREQUISITES**

Nil

2. COURSE OBJECTIVES

To introduce the basics of designing for Residential interiors and to develop skills required for the same.

3. COURSE OUTCOME

- To develop understanding of the scale, function and options existing when designing small-scale spaces in residences such as toilets, kitchens, living, bedrooms etc.
- Development of ideas with regard to false ceiling, wall paneling, flooring, floor coverings, curtains, windows, doors and other elements of residential interiors.
- To understand and create spaces of comfort and spatial quality
- To understand and do a technical drawing of kitchen & toilet related elements and storages.
- To be able to choose the desired finishes and materials for the design based on their technical attributes.
- To understand and do a technical drawing of Residential related interiors & furniture.

UNIT-I (30 Hrs)**KITCHENS**

Work triangle, planning for activity – anthropometrics – types of kitchen- Modular kitchens. Materials used in counters, shelves, worktops, washing areas & their comparative study. Lighting & color scheme – Natural & Artificial light.

TOILETS

Anthropometry – various types of sanitary ware and their use – types of layouts – concepts in modern day toilet interiors – materials & finishes – colour, texture & pattern.

UNIT-II (30Hrs)**BEDROOMS& LIVING ROOMS**

Concepts in bedroom & living room interiors – various layouts of these spaces – the use of furniture and accessories to create a certain type of ambience –materials &finishes– lighting, colour & texture.

UNIT-III (30Hrs)**RESIDENCE**

Holistic concepts in residential interiors–ability to integrate various individual spaces into one theme–treatment of patios, courtyards, verandahs &other semi-sheltered spaces – integration of built form and open spaces.

RECOMMENDED BOOKS

1. Designs for 20th century Interiors– Fiona Leolie, VH Publications, London, 2000.
2. Interior Design; the New Freedom, Barbara Lec Diamonstein, Rizzoli International Publications, New York, 1982.
3. Interior Colour by Design, Jonathan Poore, Rockport Publishers, 1994.
4. Worldwide Interiors– International Federation of Interior Architects &Designers, Rikuyo-Sha, Japan, 1987.

INSTRUCTIONSTOQUESTIONPAPERSETTER

1. One compulsory question is to be set from the entire syllabus.
2. The topic of the project is to be displayed on Institute Notice Board 10 days in advance.

MATERIAL AND CONSTRUCTION - I**Subject Code: BDID2-106**

L	T	S	P	C
2	0	4	0	4

Duration: 75Hrs**1. COURSE PREREQUISITES**

Nil

2. COURSE OBJECTIVES

To familiarize the students of Interior Design on material and construction methodology.

3. COURSE OUTCOME

- Understanding the process of building construction from the very first step.
- To understanding the basic components of the buildings envelope for small buildings like Foundations, Walls, Openings, Roofs, Understanding simple roof & floor finishes.
- Understanding masonry construction details
- Developing the knowledge of components of the brick masonry.
- Understanding the Types, Uses & Market rates of building materials.
- Understanding the various building materials used in construction of a building with study of their Constituents, Properties.

UNIT-I (25Hrs)**INTRODUCTION TO MATERIALS**

- Wood-Soft and hardwood, plywood, laminated wood and particle boards-properties, manufacture & uses.
- Synthetic Materials – Different types of Glass, their properties, manufacturing processes and uses. Plastics – Injection moulding & other manufacturing methods, etc.
- Fabrics-textile, Jute, leather etc. different types and their uses.

UNIT-II (25Hrs)**WALLS-TYPES OF MASONRY**

Different types - Stone walls – random rubble, coursed rubble, square rubble, polygonal rubble & Ashlar etc.

Brick masonry-Types of bonds-single & double Flemish bond, header bond, stretcher bond, rat trap bond, ornamental bonding.

UNIT-III (25Hrs)**TILED ROOFS**

Drawings indicating various types of sloped & hipped roof Types of sloping roof-lean to & couple roof with Mangalore tiles, country tiles & pan tiles.

STRUCTURAL SYSTEMS

Structures – Components of a load bearing wall & RCC slab roof system - RCC beams, columns and framed structure

BASIC SERVICES

Components of a toilet & bathroom-sanitary ware-W.C., washbasin, bathtub, Jacuzzi etc. Sanitary fittings – taps, mixers, shower units

RECOMMENDED BOOKS

1. S.C. Rangwala-Engineering materials-Charotar Publishing, Anand
2. Francis D.K. Ching-Building Construction Illustrated,VNR,1975
3. W.B. McKay-Building construction Vol1-Longmans,UK1981
4. W.B. McKay-Building construction Vol3-Longmans,UK1981

INSTRUCTIONSTOQUESTIONPAPERSETTER

1. The examiner is required to set a total of six questions with two questions from each UNIT.
2. The student is required to attempt any one question from each UNIT making a total of three questions.

HISTROY OF DESIGN**Subject Code: BDID2-107**

L	T	S	P	C
2	0	0	0	2

Duration: 30Hrs**1. COURSE PREREQUISITES**

Nil

2. COURSE OBJECTIVES

To provide the student of Interior Design knowledge on various developments in Interior design through ages.

3. COURSE OUTCOME

- To help the student understand the designs from Prehistoric Period to the Middle Ages.
- To know more on the Modern Movements in Interior design from the beginnings of 20th century.
- To understand the different traditional contemporary art form with different tools and techniques
- To explore the different ornaments and accessories in historic interiors
- To appreciate various styles learnt through individual designs across diverse range of sources
- To understand the role of decorative styles in history of architecture and interior design.

UNIT– I (10 Hrs)**EARLY CLASSICAL PERIOD**

Prehistoric Cave paintings–Primitive Designs–Interiors during Egyptian, Greek, Roman, Gothic, Early Christian & Renaissance Periods.

MIDDLE AGES

Interiors in Romanesque, Gothic, and Renaissance periods

UNIT – II (10 Hrs)**COLONIAL TO THE BEGINNING OF THE 20TH CENTRY**

Colonial, Victorian designs, Arts & Crafts movement, Art Nouveau, Eclectism, Frank Lloyd Wright.

UNIT–III (10Hrs)**BAUHAUS TO POST WAR MODERNISM**

Walter Gropius/Bauhaus, DeStijl, Mies Van Der Rohe, LeCorbusier, ArtDeco, Postwar Modernism.

RECOMMENDED BOOKS

- Interior Design Course, Mary Gilliat Coyran, Octopus Ltd., London
- Interior Design & Decoration, Sherril Whiton, Prentice Hall
- Interior Design, Francis D.K. Ching, John Wiley & Sons, New York
- History of Architecture, Sir Banister Fletcher, CBS Publishers & distributors, New Delhi
- Time Saver Standards for Interior Design, Joseph De Chiara, McGraw Hill, New York.
- S.C. Rangwala-Engineering materials-Charotar Publishing, Anand
- Francis D.K. Ching-Building Construction Illustrated, VNR, 1975
- W.B. McKay-Building construction Vol 1-Longmans, UK 1981
- W.B. McKay-Building construction Vol 3-Longmans, UK 1981

INSTRUCTIONS TO QUESTION PAPER SETTER

- The examiner is required to set a total of six questions with two questions from each UNIT.
- The student is required to attempt any one question from each UNIT making a total of three questions.

STRUCTURE SYSTEM**Subject Code: BDID2-108**

L	T	S	P	C
2	0	2	0	3

Duration: 30Hrs**1. COURSE PREREQUISITES**

Basic understanding of building construction and materials.

2. COURSE OBJECTIVES

To equip students with knowledge of structural systems relevant to interior design, focusing on their role in restructuring, retrofitting, and modifying internal spaces.

3. COURSE OUTCOME

- Identify and classify structural systems encountered in interior design projects.
- Analyze bulk-active and mass-active structural systems in the context of interior modifications.
- Assess the impact of structural alterations on load distribution and stability.
- Develop solutions for retrofitting and reinforcing structural components during space reconfiguration.
- Apply structural principles while proposing design interventions for walls, openings, and partitions.
- Integrate structural considerations with aesthetic and functional design solutions.

Unit I (10 Hrs)**Fundamentals of Structural Systems**

- Overview of structural systems in buildings and their role in interior spaces
- Load transfer mechanisms: Bulk-active systems (frames, trusses, space frames) and mass-active systems (load-bearing walls, vaults, domes)
- Structural behavior of materials and their role in interior applications

Unit II (10 Hrs)**Structural Considerations in Interior Modifications**

- Impact of interior modifications on structural stability and integrity
- Techniques for structural modifications: wall removals, enlarging openings, and introducing new structural elements
- Methods for reinforcing and strengthening modified structures

Unit III (10 Hrs)**Retrofitting and Adaptive Reuse in Interiors**

- Identifying structural constraints in existing buildings
- Principles of retrofitting and adaptive reuse in interior spaces
- Integration of new materials and reinforcement techniques

RECOMMENDED BOOKS

1. Brooker, G., & Stone, S. (2007). Basics Interior Architecture.
2. Ching, F. D. K. (2014). Building Construction Illustrated. John Wiley & Sons.
3. Ching, F. D. K. (2016). Interior Design Illustrated. John Wiley & Sons.
4. Ching, F. D. K. (2019). Building Structures Illustrated. In Sustainability (Switzerland) (Vol. 11, Issue 1). Wiley
5. D.K. Ching, F. (1985). Architectural Graphic.
6. Engel, H. (1997). Structure System (p. 354).
7. Gordon, J. E., & Stewart, M. B. (1980). Structures, or Why Things Don't Fall Down. In American Journal of Physics (Vol. 48, Issue 9, pp. 787–787).
<https://doi.org/10.1119/1.12007>

INSTRUCTIONS TO QUESTION PAPERSETTER

1. One compulsory question containing six questions of 2 marks (12 marks), each requiring short answers, will be set from the entire syllabus.
2. The examiner is required to set another six questions (two from each unit), out of which the students are required to attempt any four questions (selecting at least one from each unit).

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DIGITAL GRAPHICS**Subject Code: BDID2-**

L	T	S	P	C
2	0	0	2	3

Duration: 75 Hrs**1. COURSE PREREQUISITES**

The students should have cleared Soft Skill Development course.

2. COURSE OBJECTIVES

The students should be made aware of the role and importance of Computers in the field of Interiors.

3. COURSE OUTCOME

- Student shall be able to understand the use of Computer as an aid to drafting and presentation of Interior design projects.
- To understand the basic components of operating on menu and setup wizard
- To work on drafting a plan with dimensioning and layers
- To understand the various tools on Photoshop
- Advanced commands like layers, viewports, layer-Iso and other 2D commands.
- To understanding 3-D Modeling on Auto cad

UNIT-I (25Hrs)**2-D AUTOCADD:**

- Advanced Introduction to AutoCad, and Introduction to Auto Cad Revit
- Advanced commands like layers, viewports, layer-iso and other 2D commands.
- Drafting the complex and multistoried Plans, Sections, and Elevations.
- Text writing and dimensioning of the Plans, Elevation and Sections

UNIT-II (25 Hrs)**3-D AUTOCADD:**

- Advanced rendering in the Auto Cad
- 3-D Modeling on Auto cad of Single Storey and Multi Storey Buildings,
- 3-D Modeling of Multiple Building in a Single Site, Camera View of the Buildings.

UNIT-III (25Hrs)**BASICS OF ADOBE PHOTOSHOP**

Tool box (Moving, marquee tool), Magic wand selection, Crop tool, Paint Brush, Opacity, Text Styles, Blue tool, Sharpening Tool, Color correction, Layers, moving Tool, Masking Tool.

INSTRUCTIONS TO QUESTION PAPER SETTER

The evaluation of student shall be based on the written questions to be set from the course and the practical conducted based on a specific problem given to assess and evaluate the knowledge of students related to course defined above.

UNIVERSAL HUMAN VALUE - II**Subject Code: BHSMC0-026**

L	T	S	P	C
1	1	0	0	2

Duration: 45 Hrs**1. COURSE PREREQUISITES**

Nil

2. COURSE OBJECTIVES

This course is intended to provide a much needed orientation input in value education to the young enquiring minds.

3. COURSE OUTCOME

- To help the students appreciate the essential complementarity between 'VALUES' and 'SKILLS' to ensure sustained happiness and prosperity which are the core aspirations of all human beings.
- To facilitate the development of a Holistic perspective among students towards life and profession as well as towards happiness and prosperity based on a correct understanding of the Human reality and the rest of existence. Such a holistic perspective forms the basis of Universal Human Values and movement towards value-based living in a natural way.
- To highlight plausible implications of such a Holistic understanding in terms of ethical human conduct, trustful and mutually fulfilling human behavior and mutually enriching interaction with Nature.

UNIT-I (15 Hrs.)

Introduction to Value Education Lecture: Understanding Value Education, Self-exploration as the Process for Value Education, Continuous Happiness and Prosperity – the Basic Human Aspirations, Right Understanding, Relationship and Physical Facility, Happiness and Prosperity – Current Scenario, Method to Fulfil the Basic Human Aspirations

UNIT-II (15 Hrs.)

Harmony in the Human Being: Understanding Human being as the Co-existence of the Self and the Body Lecture 8: Distinguishing between the Needs of the Self and the Body, The Body as an Instrument of the Self, Understanding Harmony in the Self, Harmony of the Self with the Body, Programme to ensure self-regulation and Health

UNIT-III (15 Hrs.)

Harmony in the Family and Society : Harmony in the Family – the Basic Unit of Human Interaction, Values in Human-to-Human Relationship, 'Trust' – the Foundational Value in Relationship, 'Respect' – as the Right Evaluation, Exploring the Feeling of Respect, Understanding Harmony in the Society, Vision for the Universal Human Order

• UNIT-IV (15 Hrs.)

Harmony in the Nature/Existence: Understanding Harmony in the Nature, Inter connectedness, self-regulation and Mutual Fulfillment among the Four Orders of Nature, Realizing Existence as Co- existence at All Levels, The Holistic Perception of Harmony in Existence

Implications of the Holistic Understanding – A Look at Professional Ethics: Natural Acceptance of Human Values, Definitiveness of (Ethical) Human Conduct, A Basis for Humanistic Education, Humanistic Constitution and Universal Human Order, Competence in Professional Ethics, Holistic Technologies, Production Systems and Management Models Typical Case Studies, Strategies for Transition towards Value-based Life and Profession

RECOMMENDED BOOKS (Text Book and Teachers Manual)

- The Textbook A Foundation Course in Human Values and Professional Ethics, R R Gaur, R Asthana, G P Bagaria, 2nd Revised Edition, Excel Books, New Delhi, 2019. ISBN 978- 93- 87034-47-1.

- b) The Teacher's Manual Teachers' Manual for A Foundation Course in Human Values and Professional Ethics, R R Gaur, R Asthana, G P Bagaria, 2nd Revised Edition, Excel Books, New Delhi, 2019. ISBN 978- 93-87034-53-2 3.2

RECOMMENDED BOOKS

1. Jeevan Vidya: Ek Parichaya, a Nagaraj, Jeevan Vidya Prakashan, Amarkantak, 1999.
2. Human Values, A.N. Tripathi, NewAge Intl. Publishers, New Delhi, 2004.
3. The Story of Stuff (Book).
4. The Story of My Experiments with Truth-by Mohan das Karam chand Gandhi
5. Small is Beautiful-E. F Schumacher.
6. Slow is Beautiful-Cecile Andrews
7. Economy of Permanence –J C Kumarappa
8. Bharat Mein Angreji Raj- Pandit Sunderlal
9. Rediscovering India-by Dharampal
10. Hind Swaraj or Indian Home Rule-by Mohandas K. Gandhi
11. India Wins Freedom-Maulana Abdul Kalam Azad
12. Vivekananda-Romain Rolland (English)
13. Gandhi-Romain Rolland (English)

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UNIVERASAL HUMAN VALUE - II

Subject Code:

L	T	S	P	C
2	0	0	0	2

Duration: 45 Hrs

1. COURSE PREREQUISITES

Basic knowledge of English as a language up to 12th standard

2. COURSE OBJECTIVES

The objective is to help the students to become independent users of the English language. Students should be able to understand spoken and written English language of varied complexity, including some abstract topics, particularly for preparing reports. They must show awareness in the field and be able to explain their views rationally.

3. COURSE OUTCOME

- The students shall be able to converse fluently, without strain, with international speakers of English in an accent and lexis widely understood globally. They will be able to prepare reports and texts on their own and shall be able to communicate professionally.
- Reading:** Reading texts of varied complexity; speed reading for global and detailed meaning; processing factual and implied meanings.
- Vocabulary:** Building up and expansion of vocabulary; active use of vocabulary
- Grammar:** Revising and practicing a prescribed set of grammar items; using grammar actively while processing or producing language
- Writing:** The qualities of good writing include learning the prescribed written expressions of conventional use, writing business letters and emails, architectural reports, summaries, and various forms of descriptive and argumentative essays related to buildings, as well as poetry and prose.

UNIT-I (15 Hrs.)

The students will go through the reading texts themselves with the help of a dictionary or word power as given at the end of the books. As they progress from one reading to another, they should learn to read fast and better understand concrete and abstract topics. While taking up the textbook lessons in the classroom, the teacher shall ensure that students can do the following:

- Identify the significant points and conclusions as given in the text.
- Handle significant texts (outside the prescribed book) with overall comprehension of the links between arguments and the finer distinction between stated and implied meanings.
- Generally, read the stance or the point of view of the writer and present it as a summary.
- Use the vocabulary learnt in the lessons (especially in "word power") productively in various writing tasks as suggested at the end of each lesson.
- Profitably use the grammatical items discussed at the end of each lesson while producing language for communication.
- Besides the textbook, the teacher must insist that students extend their reading by taking up additional texts of their choice.

UNIT-II (15 Hrs.)

The students must learn the language that expresses various cognitive functions frequently used in writing. With the help of the teacher who will give them adequate practice, the students should be able to:

- Convey information on concrete or abstract topics with clarity and precision.
- Write about objects or events in descriptive and narrative form with appropriate detail.
- Explain ideas and buildup arguments with adequate support in a convincing manner.
- Use language with some degree of flexibility in consideration of the reader.
- Produce effective forms of professional writing such as business letters, emails, notes, memos, reports, summaries, etc.
- While teaching, the teacher must inculcate in students the habit of revising their writing. The teacher can also use and recommend the relevant sections of the following books to develop

students' writing skills.

UNIT-III (15 Hrs.)

The students must visit places of importance, such as buildings, gardens, monuments, etc., and prepare visit reports. The parameters to be considered for report writing shall be location, history, concept and key elements of design

- Basic understanding and vocabulary of Interior terms and features.
- Presentation of various site reports, case studies and methods of holding meetings.
- Preparation of press notes for interior reports and events.

RECOMMENDED BOOKS

1. Vandana R.Singh, 'The Written Word', Oxford University Press, New Delhi.
2. K.K. Ramchandran, et al., 'Business Communication', Macmillan, New Delhi.
3. Swati Samantaray, 'Business Communication and Communicative English', Sultan Chand, New Delhi.
4. S.P. Dhanavel, 'English and Communication Skills for students of Science & Engineering.

INSTRUCTIONS TO THE PAPERSETTER

1. One compulsory question containing six questions of 2 marks (12 marks), each requiring short answers, is to be set from the entire syllabus
2. The examiner is required to set another six questions (two from each unit), out of which the students are required to attempt any four questions (selecting at least one from each unit).

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