

# SYLLABUS B.SC INTERIOR DESIGN

Mahatma Education Society's



**PILLAI COLLEGE OF  
ARCHITECTURE  
Autonomous**

*Pillai*



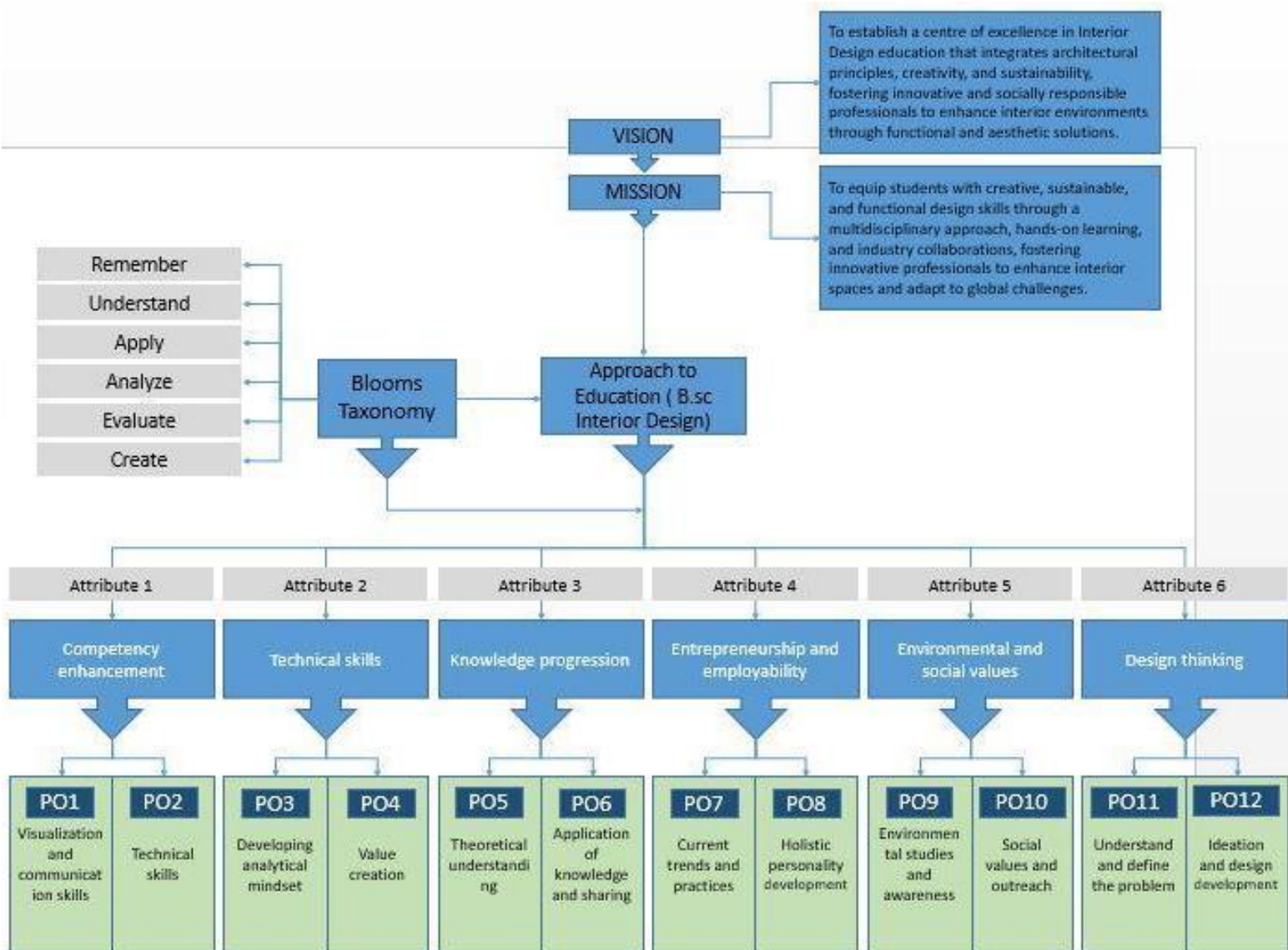
## Introduction

Interior Design is a creative practice that combines technical expertise and knowledge of space, ergonomics, materials, lighting, History, technology, sustainability of the indoor environment to design an interior solution that responds to the context of the natural and built environment. While decoration is one aspect contributing to aesthetics, it is but a small part of a professional interior design degree.

Our four year B.Sc. Interior Design program focuses on the holistic development of students by offering a well-rounded curriculum which is meticulously designed to equip students with the knowledge and skills necessary to transform spaces into inspiring environments. This comprehensive undergraduate program combines theory, practical application, and hands-on training to provide students with a deep understanding of design principles, space planning, materials, furniture design, lighting, and sustainable practices. With a curriculum that aligns with industry standards, students will gain expertise in computer-aided design (CAD), 3D visualization, and emerging design technologies. The program focuses on the holistic development of the students by offering

The diverse range of electives allows students to select subjects that align with their interests and serve as the foundation for their research projects.

In the final year of the B.Sc. in Interior Design program, students have the opportunity to gain real-world industry experience through a structured internship program. This internship allows students to work with renowned interior designers, architectural firms, design studios, and construction companies, giving them hands-on exposure to professional practices.



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### Program specific outcomes for B.Sc Interior Design

Sr. no.	Attributes	PO's in brief
PSO1	Competency enhancement	Graduates will build expertise in space planning, material selection, and project execution, enabling them to design functional and aesthetically appealing interiors with confidence and creativity.
PSO2	Technical skills	Graduates will master CAD software, 3D modeling, rendering, and construction detailing, ensuring precision, efficiency, and technical excellence in their design projects.
PSO3	Knowledge progression	Graduates will develop a comprehensive understanding of design theories, historical influences, and evolving industry trends, fostering continuous learning and professional growth.
PSO4	Entrepreneurship and employability	Graduates will acquire business knowledge, project management skills, and industry exposure, preparing them for successful careers in design firms, independent practice, or allied industries
PSO5	Environmental and social values	Graduates will embrace sustainable design practices, eco-friendly materials, and socially inclusive approaches, contributing to environmentally responsible and user-centric interior solutions.
PSO6	Design thinking	Graduates will adopt a problem-solving mindset, integrating creativity, functionality, and innovation to develop thoughtful and impactful interior design solutions.

### Program outcomes for B.Sc Interior Design



Sr. no.	PO title	PO's in brief
PO1	Visualization and Communication skills	Develop the ability to conceptualize, visualize, and effectively communicate design ideas using sketches, drawings, digital renderings, and verbal presentations, ensuring clear articulation of concepts to clients and stakeholders.
PO2	Technical skills	Gain proficiency in computer-aided design (CAD), 3D modeling, rendering software, material selection, construction techniques, and detailing, enabling them to execute interior design projects with precision and efficiency.
PO3	Developing analytical mindset	Cultivate critical thinking and problem-solving abilities, enabling them to analyze spatial requirements, user behavior, and functional needs to create innovative and practical design solutions
PO4	Value creation	Understand how to enhance user experiences and add value through thoughtful space planning, material innovation, and functional aesthetics, ensuring client satisfaction and long-term usability.
PO5	Theoretical understanding	Gain in-depth knowledge of design history, architectural styles, human ergonomics, color theory, lighting principles, and material sciences, providing a strong foundation for informed design decisions.
PO6	Application of knowledge and sharing	Apply learnings through real-world projects, collaborations, and knowledge-sharing forums, ensuring the practical implementation of design concepts and continuous skill development.
PO7	Current trends and practices	Stay updated with emerging trends such as smart interiors, parametric design, biophilic design, and digital fabrication, integrating contemporary practices into their design approach.
PO8	Holistic personality development	Develop leadership, teamwork, time management, and interpersonal skills, preparing them for dynamic work environments and professional growth.

PO9	Environmental studies and awareness	Incorporate sustainable design strategies, eco-friendly materials, and energy-efficient solutions, promoting environmentally responsible interior spaces.
PO10	Social values and outreach	Understand their role in community-driven design, inclusive spaces, and social impact projects, contributing to the well-being of diverse user groups through meaningful design solutions.
PO11	Understand and define the problem	Develop the ability to identify design challenges, assess spatial constraints, and define user-centric requirements, forming a solid foundation for the design process.
PO12	Ideation and design development	Master the process of concept generation, iterative design, and prototype development, ensuring the creation of functional, innovative, and aesthetically appealing interior spaces.



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**SEMESTER I**

Sub. No.	Stream	Subjects	Teaching scheme	
			lecture	studio
101	Design	Integrated Interior Design Studio - 1	0	6
102	Technology	Interior Construction - 1	1	3
103	Skills	Communication skills - 1	1	1
104	Skills	Interior drawings and representation skills -1	1	3
105	Knowledge	Design theory and aesthetics	0	2
106	Knowledge	Interior materials and products - 1	1	1
107	Knowledge	History of Interior Design - 1	2	0
		<b>Total</b>	<b>6</b>	<b>16</b>

Sub. No.	Stream	Subjects	Teaching scheme	
			lecture	studio
201	Design	Integrated Interior Design Studio - 2	0	6
202	Technology	Interior Construction - 2	1	3
203	Skills	Communication skills - 2	1	1
204	Skills	Interior drawings and representation skills - 2 (digital tools – AutoCAD)	1	3
205	Design	elective 1	0	2
206	Knowledge	Interior materials and products - 2	1	1
207	Knowledge	History of Interior Design - 2	2	0
		<b>Total</b>	<b>6</b>	<b>16</b>

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**SEMESTER III**

Sub. No.	Stream	Subjects	Teaching scheme	
			lecture	studio
301	Design	Interior Design Studio - 1	0	6
302	Technology	Interior Construction – 3	1	3
303	Technology	Interior Services -1	0	3
304	Skills	Interior drawings and representation skills -3 ( 3D modelling, rendering)	1	2
305	Skills	Electives 2	2	0
306	Design	Furniture and product design	0	2
307	Knowledge	Environmental Studies - 1	2	0
		<b>Total</b>	<b>6</b>	<b>16</b>

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**SEMESTER IV**

Sub. No.	Stream	Subjects	Teaching scheme	
			lecture	studio
401	Design	Interior Design Studio - 2	0	6
402	Technology	Interior Construction – 4	1	2
403	Technology	Interior services – 2	0	3
404	Skills	Interior drawings and representation skills -3 (3D modelling , rendering)	1	2
405	Technology	Elective 3	2	0
406	Technology	Interior working drawings -1	0	3
407	Knowledge	Environmental studies - 2	2	0
		<b>Total</b>	<b>6</b>	<b>16</b>

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**SEMESTER V**

Sub. No.	Stream	Subjects	Teaching scheme	
			lecture	studio
501	Design	Interior Design Studio - 5	0	6
502	Technology	Advanced Interior detailing and working dwgs. -1	1	3
503	Technology	Smart and sustainable interior services -1	0	3
504	Skills	Interior drawings and representation skills -3 ( VR and AR in interiors)	1	2
505	Technology	Elective 4	2	0
506	Design	Interior Landscape Design	0	2
507	Knowledge	Environmental studies - 3	2	0
		<b>Total</b>	<b>6</b>	<b>16</b>

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**SEMESTER VI**

Sub. No.	Stream	Subjects	Teaching scheme	
			lecture	studio
601	Design	Interior Design Studio - 6	0	6
602	Technology	Advanced Interior detailing and working dwgs. -2	1	3
603	Technology	Smart and sustainable interior services -2	0	3
604	Skills	Interior drawings and representation skills -3 ( VR and AR in interiors)	1	2
605	Knowledge	Interior Professional practice - 1	2	0
606	skills	6 week Internship	0	4
		<b>Total</b>	<b>4</b>	<b>18</b>

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**SEMESTER VII**

Sub. No.	Stream	Subjects	Teaching scheme	
			Lecture	Studio
701	Design	Thesis/Interior Research Project – specialized interior Design topic	0	8
702	Technology	Emerging technologies in interiors (AI, parametrics)	1	4
703	Technology	Smart and sustainable interior services -3	2	0
704	Skills	Research methodology	1	4
705	Knowledge	Interior Professional practice -2	2	0
		<b>Total</b>	<b>6</b>	<b>16</b>

**SEMESTER VIII**

Sub. No.	Subjects	Teaching scheme	
801	Professional Practice – (16-18 weeks)		22

## Semester wise detailed syllabus

### SEMESTER I

Sub. No.	Stream	Subjects	Teaching scheme	
			lecture	studio
101	Design	Integrated Interior Design Studio - 1	0	6
102	Technology	Interior Construction - 1	1	3
103	Skills	Communication skills - 1	1	1
104	Skills	Interior drawings and representation skills -1	1	3
105	Knowledge	Design theory and aesthetics	0	2
106	Knowledge	Interior materials and products - 1	1	1
107	Knowledge	History of Interior Design - 1	1	1
		<b>Total</b>	<b>5</b>	<b>17</b>



## 101 - Integrated Interior Design studio – 1

Credits - 6
Teaching hours - 96 periods of 1 hour each
Sessional marks: Internal 100
Examination: Interior design paper of 6 hrs duration of 50 marks, min. passing marks - 20

### Course specific outcomes

1. The students will be able to develop observational and creative skills that would enhance the visual perception of students and evolve aesthetic sensitivity.
2. The students will be able to understand the human body and its relationship with space and the activities conducted within
3. Students will be able to draft and implement drafting skills on paper.
4. Students will be able to understand the basic design acumen and anthropometric observation in the design of residential spaces.
5. Students will be able to prepare interior layout and related drawings of individual units.

### Course content:

Based on the above mentioned outcomes the content of the course for semester 1 should be designed and limited to designing of residential space such as individual rooms ( living/dining not less than 25sq.m and kitchen not less than 12.00 sq.m) of an apartment and are expected to present the study through detailed measured drawings and sketches. All specified areas being the carpet areas. The contents of the course can be divided and conducted in the form of modules.

### Evaluation:

Continuous assessment of sessional work in form of sketches, scaled drawings, study models in various materials, case studies, site visits, power point presentation etc.

Design portfolio should consist of project brief, client profile, measurement plan, and furniture layout.

### Faculty ratio:

One teacher per 15 students.

### Six hours studio should be divided in two slots

### REFERENCES:

1. Ahmed Kasu, Interior Design, TWAIR Pub. Bombay
2. Sudhir Diwan, Sanskruti a manual of Interior Design Vol-1, Interior Affairs, Mumbai

3. Karlen Mark, Space planning Basics, Van Nostrand Reinhold, New York, 1992.
4. Joseph D Chiara, Julius Panero, & Martin Zelnick, Time Saver standards for Interior Design & space planning, 2nd edition, Mc-Graw Hill professional, 2001.
5. Francis.D. Ching & Corky Bingelli, Interior Design Illustrated, 2nd edition, Wiley publishers, 2004.
6. Julius Panero & Martin Zelnick, Human Dimension & Interior Space : A source book of Design Reference standards, Watson – Guptill, 1979.
7. Karlen Mark, (1980), Motion and Time Study, Design and Measurement of work, John Wiley, New York.
8. Ahmed Kasu, Interior Design, TWAIR Pub. Bombay
9. Sudhir Diwan, Sanskruti a manual of Interior Design Vol-1, Interior Affairs, Mumbai
10. Karlen Mark, Space planning Basics, Van Nostrand Reinhold, New York, 1992.
11. Joseph D Chiara, Julius Panero, & Martin Zelnick, Time Saver standards for Interior Design & space planning, 2nd edition, Mc-Graw Hill professional, 2001.

## 102 - Interior construction – 1

Credits - 4
Teaching hours: lectures-16 periods of 1 hr each, studio: 64 periods of 1 hr each.
Sessional marks - Internal 50
Examination: theory paper of 3 hrs duration for 50 marks, minimum 20 marks for passing.

### Course specific outcomes

1. Students will learn about structural components and elements of a built structure.
2. Students will acquire knowledge about bricks as a unit for walling systems, its substitute and wood and its substitutes.
3. Students will learn about the openings like doors, windows ventilators with focus on different modes of operation and their jamb linings.
4. Students will learn about the joinery details, their applications and limitations.
5. Students will learn about the lintels and arches based on the structure and materials.

## **Course content:**

Module I - Structural components: Introduction to structural components and elements of built structure.

Walling systems: Brick walls for interior division of spaces and other uses. Light weight concrete blocks, hollow blocks, aerated concrete blocks.

Joinery: Introduction to joinery and joints, limitations and applications.

Module II - Study of openings : Doors, windows, ventilators with focus on different modes of operation and their jamb linings.

study of types of lintels and arches based on structure and materials.

study of different types of doors and windows based on material and positioning.

## **Evaluation:**

Continuous assessment of sessional work should consist of scaled drawing sheets for topics Doors, windows, lintels and arches.

Assessment of topics - structural glazings, structural components, walling systems and joinery to be assessed in form of sketches, visit reports, powerpoint presentations.

**Faculty ratio: One teacher per 15 students**

## **REFERENCES :**

1. Bindra, S.P. and Arora, S.P. Building Construction: Planning Techniques and methods of Construction, 19th ed. Dhanpat Rai Pub., New Delhi, 2000.
2. Moxley, R. Mitchell's Elementary Building Construction, Technical Press Ltd. Rangwala, S.C. Building Construction 22nd ed. Charota Pub. House Anand, 2004.
3. Sushil Kumar. T.B. of Building Construction 19th ed. Standard Pub. Delhi, 2003.

### 103 - Communication skills - 1

Credits : 2
Teaching hours: 32 periods of 1 hour each
Sessional marks : Internal marks 50
Examination:

#### Course specific outcomes:

1. students will be able to learn verbal and non verbal communication
2. Students will be able to develop body language and vocal skills
3. students will learn writing and reading skills.
4. students will develop personal grooming and confidence building skills
5. Students will learn the presentation skills.

#### Course content :

##### Module I –

Should consist of assignments to develop verbal and non verbal communication of the students through body language and vocal practices. the writing and presentation skills to be developed through write ups and essay writing exercises.

##### Module II -

Debates, skits, presentations and group discussions should be conducted for personal grooming and confidence building.

#### Evaluation

Continuous assessment of sessional work may consist of evaluation of individual's writing and presentation skills, project work, power point presentations etc.

**Faculty ratio : 2 teachers per batch**

## REFERENCES:

1. Geetha Jajivan, Kiranmai: Course in listening and speaking Skills part I, Foundation Books Pvt Ltd.
2. Lorven: Enrich your communication in English
3. Web Sites: [www.mindtools.com](http://www.mindtools.com)

### 104 - Interior drawings and representation skills -1

Credits : 4
Teaching hours: 16 period of 1 hour each STUDIO : 48 periods of 1 hour each
Sessional marks : Internal marks 50
Examination:

#### Course specific outcomes

1. Students will be able to learn drafting techniques, graphic codes, symbols and architectural lettering.
2. students will understand architectural scales.
3. Students will understand and learn solid geometry, orthographic projections of simple, complex solids and hollow objects, sections.
4. Students will learn the orthographic and axonometric projections
5. students will learn the rendering techniques.



## **Course content**

### **Module I**

Drafting techniques, graphic codes, symbols and architectural lettering. Architectural scales and solid geometry.

### **Module II**

Isometric and axonometric projections and rendering techniques.

**faculty ratio: one teacher per 15 students**

### **REFERENCES:**

1. Stephen Kliment, Architectural Sketching and Rendering: Techniques for Designers and Artists, Watson Guptill, 1984.
2. Ivo.D. Drpic, Sketching and Rendering of Interior Space, Watson- Guptill, 1988.
3. Maureen Mitton, Interior Design Visual Presentation: A Guide to graphics, models and presentation techniques, 3rd edition, wiley publishers, 2007
4. Mogali Delgade Yanes and Ernest Redondo Dominquez, Freehand drawing for Architects and Interior Designers, ww.Norton & co., 2005
5. Francis D.Ching, Design Drawing, Wiley publishers
6. Atkin William W. Corbellent, Raniero and Fiore. R. Vincent, Pencil Techniques in Modern Design. 4th ed. Reinhold pub Corporation. New York, 1962.
7. Bately, Claude. Design Development of India Architecture.
8. Bellings, Lance Bowen. Perspective space and Design.
9. Burden, Ernest, Architectural Delineation: A photographic approach to presentation, 2nd ed, McGraw Hill, Inc., New York, 1982.
10. Conli, Claudius. Drawings by Architects.

## 105 - Design theory and aesthetics

Credits: 2
Teaching hours: 32 periods of 1 hour each
Sessional marks: internal marks 50
Examination:

### Course specific outcomes

1. Students will learn fundamental theories of interior design, including spatial organization, circulation, and human interaction with space.
2. Students will be able to Analyze various aesthetic theories and philosophies that influence interior design, including classical, modern, and contemporary perspectives.
3. Explore the psychology of color, texture, and materials in shaping human emotions and behavior in interior spaces
4. Students will Learn to effectively use elements of design, such as color, texture, form, light, and space, to enhance the functionality and aesthetics of interior spaces.
5. Students will learn to adopt sustainable design practices and ethical considerations in aesthetics to create environmentally responsible and socially conscious interiors.

### Course content:

#### Module I

Definition and scope of interior design theory

Elements and principles of design (line, shape, color, texture, form, balance, proportion, scale, harmony, contrast, rhythm, emphasis)

Role of aesthetics in interior design

Relationship between function and aesthetics in spatial design

## **Module II**

Psychological impact of design elements (color theory, material psychology, sensory design)

Concepts of visual perception in interiors (Gestalt principles, golden ratio, symmetry vs. asymmetry)

Emotional design and experiential interior spaces

### **Evaluation**

Continuous assessment in the form of notes, power point presentations, group discussions, sketches, study models in various materials, visit reports etc.

**Faculty ratio: two teachers per batch**

### **REFERENCES:**

1. The Aesthetics of Interior Design" – David Raizman
2. The Poetics of Space" – Gaston Bachelard
3. Principles of Form and Design" – Wucius Wong
4. Time-Saver Standards for Interior Design and Space Planning" – Joseph DeChiara, Julius Panero, Martin Zelnik
5. Lighting for Interior Design" – Malcolm Innes
6. Interior Design Illustrated" – Francis D.K. Ching

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## 106 - Interior materials and products

Credits: 2
Teaching hours: 16 periods of 1 hour each, 16 periods of 1 hour each
Sessional marks: internal marks 50
Examination:

### Course specific outcomes

1. students will learn the use of natural stones in interior design
2. students will learn the use of bricks and light weight concrete blocks.
3. students will learn about use of ceramics in interior design
4. students will learn the use of commercial forms of wood and timber
5. students will understand the use of glass and bamboo in interior design.

### Course Content:

#### Module I

Assignments to be designed to acknowledge students about natural stones, bricks , lightweight concrete blocks, ceramics, commercial forms of wood, timber, glass bamboo etc.

#### Module II

Market research and current trend analysis will be culminated through Market Research and presentations by students thereupon.

### Evaluation

Continuous assessment of sessional work may consist of project work, sketch books, powerpoint presentations, market surveys, research work etc.

**Faculty ratio: 1 teacher per 15 students**

### REFERENCES:

1. Sushil Kumar. T.B. of Building Construction 19th ed. Standard Pub. Delhi, 2003. Chowdary, K.P. Engineering Materials used in India, 7th ed. Oxford and IBH, New Delhi,1990.
2. Rangwala, S.C. Building Construction: Materials and types of Construction, 3rd ed. John Wiley and Sons, Inc., New York, 1963.
3. Francis D. Ching, Building Construction Illustrated, Wiley publishers, 2008.
4. Rangawala, S.C Engineering Materials, Charter publishing house, Anand 1963.
5. Rangawala, S.C, Building construction, Charter publishing house, Anand 1963

## 107 - History of Interior Design

Credits: 2
Teaching hours: 32 periods of 1 hour each
Sessional marks: internal marks 50
Examination:

### Course specific outcomes

1. Students will be able analyze the evolution of interior design across different periods, cultures, and civilizations, identifying key movements, styles, and their socio-cultural influences.
2. students will study historical interior spaces, furniture, and decorative elements to understand how design principles such as proportion, balance, and materiality have been applied over time.
3. Students will evaluate historical design concepts and their relevance in contemporary interior design practice, integrating traditional influences into modern spaces creatively.
4. Students will develop the ability to distinguish and compare various architectural and interior design styles, materials, and construction techniques used throughout history.
5. Students will gain insights into the significance of heritage interiors, conservation practices, and the adaptive reuse of historical spaces to promote sustainable design solutions.

### Course Content:

#### Module I -

Introduction to various interior design styles across different periods, cultures and civilizations. Key movements and the interior styles practiced during then.

Study of historical interior spaces, furnitures and decorative elements including design principles such as proportion, balance and materiality.

study of historical interior design concepts and their relevance in the contemporary interior design practice.

#### Module II -

differences and comparison between various interior design styles, materials, construction techniques used throughout history.

study of heritage interiors, conservation practices and adaptive reuse of historical spaces to promote sustainable design solutions.



**Evaluation:**

Continuous assessment of sessional work in the form of project work, case studies, powerpoint presentations, sketch books etc.

**Faculty ratio : two teachers per batch****REFERENCES:**

1. Joseph Aronson, The Encyclopedia of Furniture: Third Edition ,1961
2. Bradley Quinn, Mid-Century Modern: Interiors, Furniture, Design Details, Conran Octopus Interiors, 2006.
3. Jim Postell, Furniture Design, Wiley publishers, 2007.
4. Edward Lucie-Smith , Furniture: A Concise History (World of Art) , Thames and Hudson, 1985
5. Robbie. G. Blakemore, History of Interior Design and Furniture: From Ancient Egypt to Nineteenth-Century Europe, Wiley publishers, 2005.
6. John.F. Pile, Interior Design, 2nd edition, illustrated, H.N.Abrams, 1995.



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**SEMESTER II**

Sub. No.	Stream	Subjects	Teaching scheme	
			lecture	studio
201	Design	Integrated Interior Design Studio - 2	0	6
202	Technology	Interior Construction - 2	1	3
203	Skills	Communication skills - 2	1	1
204	Skills	Interior drawings and representation skills - 2 (digital tools – AutoCAD)	1	3
205	Design	elective 1	0	2
206	Knowledge	Interior materials and products - 2	1	1
207	Knowledge	History of Interior Design - 2	2	0
		<b>Total</b>	<b>6</b>	<b>16</b>

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## 201 - Integrated Interior Design Studio 2

Credits: 6
Teaching hours: 96 periods of 1 hour each
Sessional marks: internal marks 100
Examination: Interior design paper of 6 hrs duration of 50 marks, min. passing marks - 20

### Course specific outcomes:

1. Students will be able to apply creative skills to design and planning process contents
2. Students will be able to conceptualize the design theme
3. Students will be able to design interior spaces for small residential and retail spaces
4. Students will be able to understand the basic use of materials and construction techniques and their application in interior design
5. students will be able to produce drawings w.r.t. the application of materials and construction details.

### Course content:

#### Module I -

Interplay of design principles like balance, harmony, rhythm etc.

Study and application of anthropometry and ergonomics as a tool to understand aesthetic and functional concepts of design.

#### Module II -

Concepts of evolving technology and space modulation.

History, styling and theme based designs.

#### Module III -

Designing a medium size residential spaces (master bedroom not less than 18 sq.mts with attached toilet not less than 5 sq.mts and children bedroom not less than 18 sq.mts.)

#### Module IV -

Study of retail spaces such as garment boutique, mobile stores, accessories store, small cafe etc. ( not exceeding 30 sq.mts) all areas specified are carpet areas.

**Evaluation:**

Continuous assessment of sessional work may consist of sketches, scaled drawings, study models in any medium, case studies, visit reports, powerpoint presentations etc.

Design portfolio should consist of a project brief, client profile, theme sheet, measurement plan, furniture layout, flooring layout, reflected ceiling layout, basic electrical layout and sectional elevations.

**Faculty ratio : one teacher per 15 students**

**Note: six hours studio should be divided in two slots**

**REFERENCES:**

1. Karlen Mark, Space planning Basics, Van Nostrand Reinhold, New York, 1992.
2. Joseph D Chiara, Julius Panero, & Martin Zelnick, Time Saver standards for Interior Design & space planning, 2nd edition, Mc-Graw Hill professional, 2001.
3. Francis.D. Ching & Corky Bingelli, Interior Design Illustrated, 2nd edition, Wiley publishers, 2004.
4. Julius Panero & Martin Zelnick, Human Dimension & Interior Space : A source book of Design Reference standards, Watson – Guptill, 1979.
5. Karlen Mark, Kate Ruggeri & Peter Hahn, Space Planning Basics, Wiley publishers, 2003.
6. Meiss, pierre Von. Elements of Architecture: Form to place, E and FN Spon, London, 1992.
7. Pipes, Alan. Drawing for 3-Dimensional Design. Thames and Hudson Ltd., London, 1990.
8. Smithies, K.W. Principles of Design in Architecture. Chapman and Hall, 1983.
9. Wucius, Wong. Principles of two Dimensional Design. Van Nostrand Reinhold 1972.

## 202 - Interior Construction - 2

Credits - 4
Teaching hours: lectures-16 periods of 1 hr each, studio: 64 periods of 1 hr each.
Sessional marks - Internal 50
Examination: theory paper of 3 hrs duration for 50 marks, minimum 20 marks for passing.

### Course specific outcomes:

1. students will study the materials used for construction and finishing materials for furnitures
2. students will understand the construction joinery and assembly of wood components and its substitutes.
3. students will get in depth knowledge of conventional partition systems like wooden frame partitions with skin / double skin and students will understand modern day partition systems with aluminium frames, dry wall partitions, glass partitions
4. students will learn about wall claddings with different framing and skinning materials
5. Students will learn about the modular furniture, analyse the need and criteria for selection, materials used and construction details.

### Course Content:

#### Module I -

Partition systems: Wooden framed fixed partition with single / double skin, aluminium framed partition, dry wall partition systems , full glass partition with architectural hardware. wall cladding and panelling.

#### Module II -

Introduction to modular furniture, analyzing the need and criteria for selection, materials used and construction details.

**Evaluation:**

Continuous assessment of sessional work should consist of scaled drawings for partitions, cladding and panelling systems. assessment of topic modular furniture to be assessed in the form of sketches, visit reports, journals, powerpoint presentations. etc.

Faculty ratio: one teacher per 15 students

**REFERENCES:**

1. Bindra, S.P. and Arora, S.P. Building Construction: Planning Techniques and methods of Construction, 19th ed. Dhanpat Rai Pub., New Delhi, 2000.
2. Moxley, R. Mitchell's Elementary Building Construction, Technical Press Ltd. Rangwala, S.C. Building Construction 22nd ed. Charota Pub. House Anand, 2004.
3. Sushil Kumar. T.B. of Building Construction 19th ed. Standard Pub. Delhi, 2000

**203 - Communication skills - 2**

Credits : 2
Teaching hours: 32 periods of 1 hour each
Sessional marks : Internal marks 50
Examination:

**Course specific outcomes:**

1. students will be able to present / defend their own design effectively to a person / panel.
2. students will learn the writing skills - business letters etc.
3. students will be able to develop technical writing and analytical writing skills
4. students will have improved conversational ability

**Course content:****Module I -**

Verbal and non verbal communication, body language and vocalic, interpersonal skills, business writing, technical and analytical writing.

## **Module II -**

presentation skills, personal grooming and confidence building, debates, skits, group discussions.

### **Evaluation:**

Continuous assessment of sessional work may consist of evaluation of individual's writing and presentation skills, project work, powerpoint presentations, etc.

**Faculty ratio: two teachers per batch**

### **REFERENCES:**

1. K K Nelson, F Dubors, Learning to learn, Allyn & Bacon
2. E. H. McGrath, Basic Managerial Skills for all, Prentice hall of India
3. P D Kulkarni & B B Sharma, Independent Study Techniques, TTTI, Chandigarh
4. Elizabeth Hierney, 101 Ways to Better Communication, Kogan Page
5. Malvika Nagarkar, Communication Skills, MSBTE
6. Wren & Martin, English Grammar, Chand Books
7. Burgoon Michael, Human Communication, London: Sage Pub.
8. G Leech & Jan Svartvik, A Communicative grammar of English, ELBS
9. R K Bansal & J B Harrison, Spoken English for India, New York: Mcgraw Hill
10. J D O'Conner, Better English Pronunciation, N Delhi: Orient Longman
11. Technical Communication : A Reader Centered Approach, by Anderson, Thomson Learning
12. Geetha Jajivan, Kiranmai: Course in listening and speaking Skills part I, Foundation Books Pvt Ltd.
13. Lorven: Enrich your communication in English Web Sites: [www.mindtools.com](http://www.mindtools.com)

## 0204 - Interior Drawings and representation skills - 2 ( digital tools - Auto CAD)

Credits : 4
Teaching hours: 16 period of 1 hour each STUDIO : 48 periods of 1 hour each
Sessional marks : Internal marks 50
Examination:

### Course specific outcomes:

1. students will understand the sciography of two dimensional objects in plan and elevation
2. Students will understand the sciography of three dimensional objects in plan, elevation and views.
3. students will learn one two and three point perspectives of simple interior elements (drafted and freehand)
4. Students will learn the basics of Auto CAD drafting.
5. Students will be able to produce 2D drawings in Auto CAD.

### Course content:

#### Module I -

Sciography of two dimensional objects in plan and elevation

Sciography of three dimensional objects in plan, elevation and views.

#### Module II -

Basic terms, principles, types and techniques of perspective

One two and three point perspective of simple interior elements (drafted and free hand)

#### Module III -

introduction to fundamentals of Auto CAD and use of Microsoft Office.

use of basic drafting commands in Auto CAD

### Evaluation:

the continuous assessment of sessional works may consist of scaled drawings of geometrical objects, solid geometry and orthographic projections.

Reports/presentation and analytical work - microsoft power point, microsoft word.



Auto CAD basics can be assessed through exercise given on basic drafting skills in the software.

**Faculty ratio: one teacher per 15 students.**

**REFERENCES:**

1. N.D. Bhatt, Engineering drawing- Plane & Solid Geometry, Charottar Pub. Anand, Gujrat
2. S. C. Rein Koff, Interior Graphics and Design Standards, Whitney Library, New York
3. Robert W. Gill, The Thames and Hudson Manual of Rendering with pen and ink, Thames & Hudson Ltd. London
4. Graphic Shaw, Interior Perspectives to Architectural Designs
5. Shankar Mulik, A Text Book of perspectives and graphics, Allied Pub. Bombay
6. F D K Ching, Perspective Drawing

**205 - Elective - 1**

Credits: 2
Teaching hours: 16 periods of 1 hour each, 16 periods of 1 hour each
Sessional marks: internal marks 50
Examination:

Choice based electives – minimum two electives to be offered to the students out of which one can be conducted. The focus of electives in semester one shall be more on design and skill development streams. The course outcomes and course content can be designed by the institute as per the electives offered by the faculty members.

## 206 - Interior materials and products - 2

Credits : 2
Teaching hours: 16 period of 1 hour each STUDIO : 16 periods of 1 hour each
Sessional marks : Internal marks 50
Examination:

### Course specific outcomes:

1. Students will learn about artificial stones, semi precious stones
2. students will learn about paints and polishes
3. students will learn about plastics and polycarbonates.
4. students will learn about floor covering and furnishings
5. students will learn about ferrous and non ferrous materials

### Course content:

#### Module I -

Study of construction materials and their application techniques. stones, artificial stones, semi precious stones, paints polishes, plastics and polycarbonates, ferrous and non ferrous materials.

#### Module II -

Floor coverings and furnishings,

### Evaluation:

the continuous assessment of the sessional work may consist of project work, sketch books, powerpoint presentations, market surveys, research work etc.

for all the above mentioned materials a basic understanding of the market research and current trend analysis will be cumulated through market survey and presentations by individual students.

**Faculty ratio: one teacher per 15 students**

## REFERENCES:

1. Bindra, S.P. and Arora, S.P. Building Construction: Planning Techniques and methods of Construction, 19th ed. Dhanpat Rai Pub., New Delhi, 2000.
2. Moxley, R. Mitchell's Elementary Building Construction, Technical Press Ltd. Rangwala, S.C. Building Construction 22nd ed. Charota Pub. House Anand, 2004.
3. Sushil Kumar. T.B. of Building Construction 19th ed. Standard Pub. Delhi, 2000

## 207 - History of Interior Design -2

Credits : 2
Teaching hours: 32 periods of 1 hour each
Sessional marks : Internal marks 50
Examination:

### Course specific outcomes:

1. Students will learn about the history of English furniture from 16th to 18th century
2. students will learn about the Art and craft movement in design and the Art Nouveau movement in art and furniture
3. students will learn about students will learn about the oriental furniture
4. students will learn about Indian furniture, traditional and colonial
5. students will be able to develop design process based on historical components

### Course content:

#### Module I -

English furniture from 16th to 18th century - Tudor, Stuart, Jacobean, Restoration period, queen Ann period, Gregorian period

Beginning of 19th century industrialization.

Victorian Era in England

Art Nouveau movement in art and furniture. Art movements before and after world wars

#### Module II -

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 traditional and colonial furniture

**Evaluation:**

continuous assessment of sessional work may consist of project work, sketch books, power point presentations etc.

**faculty ratio: two teachers per batch**

**REFERENCES:**

1. John F. Pile, A history of interior design, 2nd edition, Laurence King Publishing, 2005.
2. Jeannie Ireland, History of Interior Design, air child publications, illustrated ed., 2009.
3. Elaine, Michael Dywer, Christopher Mackinnon, Norman A. J. Berisford Denby , A History of Interior Design, Rhodex International, 1983.
4. Giedion Sigfried, Space, Time and Architecture: The growth of a new tradition, 4th ed. Harvard University Press, Cambridge, 1962.
5. Tadgell Cristopher, The History of Architecture in India: From the dawn of civilization to the End of the Raj , Om Book Service, New Delhi, 1990.
6. Rowl Benjamin. Art and Architecture of India.

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