

**SATHYABAMA UNIVERSITY**  
**FACULTY OF BUILDING & ENVIRONMENT**  
**DEPARTMENT OF ARCHITECTURE**

**Courses offered in B.Des (Interior Design) Programme introduced in the academic year  
2019**

**Minutes of the BOS meeting conducted on 27<sup>th</sup> April 2019**

**PREMEABLE**

The meeting started with the welcome address by the Head of the Department Dr Devayani Gangopadhyay. She gave an outline of the B.Des (Interior Design) programme planned for 4 years with 8 semesters and accommodating a professional training for a period of 6 months in the 6<sup>th</sup> Semester. She gave a basic introduction to the list of subjects in all the semesters while highlighting that the subjects are grouped into Theory, Theory cum studio and Studio based subjects with credits based on hours and ranging from 2 credits for theory subjects for 2 hours of lecture, 3 credits for 2 hours of lecture and 2 hours of practicals for Theory cum Studio subjects.

Thereby while discussing on general aspects of the course, Ar Hareish k. Sankaran stressed the importance of working drawings for interior design. He also asked where we would like to see our students after 4 years of study of B.Des Interior Design .Dr Devayani Gangopadhyay replied that our students may be working in Interior design firms .Ar Ebin Horrison added that he wanted them to be entrepreneurs.

Ar Mahesh Radhakrishnan was quick to point out that if so, then the entire curriculum should be focussed on the management aspects and business strategies of executing a work contract for an interior design project. Ar Ebin Horrison replied that the course is oriented towards design theories and design thinking.

Ar Mahesh Radhakrishnan remarked that Interior design is a new concept and an evolving field with respect to India. He noted that the field is much more developed in countries like Japan and China where design is a response to the climatic context while also reflecting the local culture and the ambience. He justified that India is a nascent country with significant ethos in terms of interior design where interiors become important only in places of extreme weather conditions like Kashmir. He added there is also no strong interior history. Or rather the scenario here is corporate interiors that started 20 years back are also disappointingly a market driven industry.

Ar Mahesh Radhakrishnan commented that school children would not have been exposed to design thinking. Therefore he suggested that the first semester of the course

should be for orientation towards developing problem solving skills, critical thinking and analysis.

He expressed his concern that students after any course may not be job-ready which may lead to frustration. He asserted that as a matter of fact, what is taught may not match with how we live. Consequently he feels there is a need to develop problem solving skills for the students coming from different backgrounds. He explained that to a great extent there will be diversity in the skill set of students and specified that this diversity should help the program. He emphasized that the program should be highly specialized in small scale projects.

Ar Hareish recommended that courses with hands on experience can be in the first semester. He also observed that theory subjects should be in the form of modules with outcomes of each lecture laid out for the students to verify what they have grasped and comprehended. He pointed out that design modules with high focus linking the theory, theory cum studio and Studio based subjects will be good for the otherwise distracted minds.

Ar Mahesh Radhakrishnan explained that that as there is a gap in design and how we live, design communication should start with something objective as an abstract start point wherein every student would be able to relate to. He cited that for example the reverse of anthropology could be tested against whether it would work or not work. He emphasized that any aspect of thinking should be open but the final product should work.

Ar Hareish expressed the need for Photography and Journalism to be in the first semester to provide a venue for observing and noticing design. He implied that both can be separate subjects. He deemed it necessary for students to be shown good design when the senses respond to the continuous process of seeing. He discerns that 'How you see what you see' is important and only then the students could represent well what they see through drawing, sketching and model making in various media.

Ar Hareish once more reiterated that once the workshops come to the first and second semesters, the students would be equipped with the skills to express themselves in design and would be more confident in the third semester.

He thereafter mandated the need to create identity and branding in interiors. He eventually listed out the 10 verticals of interior design as My space with residence design, Spaces for education like day care centers, play schools, elementary schools, primary schools and higher secondary schools, Spaces of work like offices, Spaces for business and transit with retail, way finding, graphic design, fashion and system design, Spaces for health care with hospitals, clinics, pharmacy, tertiary lab, Spaces for entertainment like sports and

gaming, Spaces for art and set design, Spaces for leisure with resort stay, hotels, Spaces for Food with dining and restaurants.

Ar Hareish deliberated on the semester selected for professional training. He put forward the question as to why it should be in the sixth semester and why not during the seventh semester. He Set forth the idea that it should be in the 7<sup>th</sup> semester for the students to contribute better. He further specified to add the subject of Society, Culture and Environment in the first semester.

Ar Mahesh Radhakrishnan scrutinized the selection process and eligibility criteria of students and noted that many of them may not have had previous drawing exposure and may probably be not from mathematics or science stream. Thenceforth he perceives that students in the 1<sup>st</sup> semester could be introduced to any design from the basics of what they know. He illustrated this with an example of product design of a bottle where they can learn to sketch and use materials to model the same, thereby increasing the complexities from one design to another while raising questions for them to answer.

He also remarked that the subject of cultural anthropology could be made more relevant by consulting with anthropologists while citing an example that modular kitchens were actually invented by women due to space constraints. He thus asserted the need to understand rational evolution through objective lens and how it's related to society. He also expressed the need to make the students be conscious and be aware of the market.

Ar Mahesh Radhakrishnan introduced the subject Fundamentals of Visual Art in the 1<sup>st</sup> semester for students to learn the ways of seeing and perception. The subject of Journalism which Ar Hareish had brought forward to the 2<sup>nd</sup> semester was renamed as Communicating skills and Journalism. Arts and Crafts Studio, Model making studio I & II are included in the 1<sup>st</sup> and 2<sup>nd</sup> semesters . Interior Design Studio I was integrated with Theory of Interiors while Fundamentals of Visual Art-II in the 2<sup>nd</sup> semester was integrated with photography. Interior Graphics I & II were integrated and added in the 2<sup>nd</sup> semester. Building crafts of 4<sup>th</sup> semester was renamed as Building Crafts II and Building Crafts –I was added in the 3<sup>rd</sup> semester. Carpentry was shifted to the 3<sup>rd</sup> semester while making way for model making studio in the 2<sup>nd</sup> semester. The professional Training was shifted to the 7<sup>th</sup> semester and as Journalism and photography subjects were shifted, estimation and costing of the 5<sup>th</sup> semester was added in the 6<sup>th</sup> semester. Finally Design Thesis was renamed as Design Project.

Finally it was concluded and stressed by Ar Mahesh Radhakrishnan that they should learn by doing and that they should be capable of designing of small spaces like small schools

but with intricate detail and working drawings and produce quality outcomes, products and projects that they take pride in.

### **Minutes of the BOS meeting conducted on 2<sup>nd</sup> July2020**

The previous Board of Studies held on 27.04.19 had approved the proposed curriculum and the detailed syllabus of I, II, III and IV semesters.

The Board of Studies held on 02.07.20 approved the curriculum and the syllabus of V, VI, VII and VIII Semester of B.Des with the incorporation of suggestions made as presented in the minutes of meeting given below.

**A Board of Studies meeting was held as Virtual mode in ZOOM platform on 2<sup>nd</sup> July2020 with the following agenda:**

1. Welcome address, opening remarks on the proposal of REGULATION 2019 and the methodology adopted.
2. Detailed discussions on the proposed syllabus and proposed Regulation 2020.
3. Any other matter with the permission of Chair.

### **Minutes of the MeetingConducted on 2/7/2020**

#### **B.Des (Interior Design)**

- Dean Dr. Devyani Gangopadhyay welcomed the Committee members and presented the welcome address and briefed the agenda of the meeting. She presented the summary of the Board of Studies meeting held on 20.04.20.
- Ar.Mahesh stressed the importance on what are we making the students ready for, after graduation?. He also pointed out look into the interior designers at the global level.
- Ar,Mahesh suggested to incorporate ways to build attitude towards design amongst the students.
- Ar.Mahesh gave a direction to focus on hands on experience in specific materials in each semester as workshops.
- Ar.Hareish suggested to include ‘accessories and possessions; to be added in the course ‘society, culture and environment;.
- Ar.Mahesh pointed out that the arts and crafts studio to focus on one or two materials.
- Ar.Mahesh pointed out to address the heterogeneous nature of the students. He also stressed on the need to explore the manufacture, strength as well as the applications of plywood with a focus on field visits.
- Ar.Mahesh said the students need to be clear with the focus of the curriculum.
- Both the panel members suggested tolook into the syllabus critically with a focus on ‘interior design’.
- The members suggested to reframe the contents included in SDEA1301 Unit 1.

- The members pointed out that the contents in the ‘Building services’ should be more oriented towards interior designing rather than the architectural aspect.
- Ar.Mahesh posited the need to reframe the content of Materials and construction studio. Besides, he also added that the ‘computer applications’ need to focus on finishes.
- The experts pointed out that the content in ‘Design Management and Interiors’ may be merged with ‘Estimation and Specifications’ which can be extended for two semesters.
- The members pointed out that the contents on Professional Ethics and Practices needed to be simplified for undergraduate level.
- Ar.Mahesh pointed out that the syllabus of professional practice can look into the practical functioning of offices .
- Ar.Hariesh stated the a course needs to be introduced or included as a part of any other course where the knowledge about ‘Identity and Branding’ be included.
- Ar.Mahesh suggested to spread the electives throughout the curriculum.
- The members suggested that in Interior Design Studio, complexity needs to be added slowly but continuously.
- Ar.Hareish pointed out that ‘Portfolio development’ can be included as a part of the curriculum.
- Ar,Hariesh pointed to make the pre thesis open ended.
- The members suggested that estimation and preparation of Bill of quantities may be addressed before the students go for Professional Training.
- The members suggested reframing the contents of the ‘capstone project’.
- Ar.Hareish pointed that hybrid projects like development of ‘apps’ can be focused on.
- Both the panel members suggested establishing the links among all the courses.

# SATHYABAMA UNIVERSITY


## FACULTY OF BUILDING & ENVIRONMENT

### DEPARTMENT OF ARCHITECTURE

Courses offered in B.Des (Interior Design) Programme introduced in the academic year 2019-2020

#### COURSES LINK DETAILS

S.No	Subject Code	Subject Name	Course Link
1.	SDE 1101	Fundamentals of Visual Arts I	<a href="https://sist.sathyabama.ac.in/syllabus2019/sobe/bdesdes/sde1101.pdf">https://sist.sathyabama.ac.in/syllabus2019/sobe/bdesdes/sde1101.pdf</a>
2.	SDE 1102	History of Interiors I	<a href="https://sist.sathyabama.ac.in/syllabus2019/sobe/bdesdes/sde1102.pdf">https://sist.sathyabama.ac.in/syllabus2019/sobe/bdesdes/sde1102.pdf</a>
3.	SDE 1103	Society, Culture and Environment	<a href="https://sist.sathyabama.ac.in/syllabus2019/sobe/bdesdes/sde1103.pdf">https://sist.sathyabama.ac.in/syllabus2019/sobe/bdesdes/sde1103.pdf</a>
4.	SDE 4051	Interior Design Studio I Theory of Interior Design	<a href="https://sist.sathyabama.ac.in/syllabus2019/sobe/bdesdes/sde4051a.pdf">https://sist.sathyabama.ac.in/syllabus2019/sobe/bdesdes/sde4051a.pdf</a>
5.	SDE 4052	Art and Craft Studio - I	<a href="https://sist.sathyabama.ac.in/syllabus2019/sobe/bdesdes/sde4052.pdf">https://sist.sathyabama.ac.in/syllabus2019/sobe/bdesdes/sde4052.pdf</a>
6.	SDE 4053	Interior Graphics I	<a href="https://sist.sathyabama.ac.in/syllabus2019/sobe/bdesdes/sde4053.pdf">https://sist.sathyabama.ac.in/syllabus2019/sobe/bdesdes/sde4053.pdf</a>
7.	SDE 1201	Fundamentals of Visual Arts II	<a href="https://sist.sathyabama.ac.in/syllabus2019/sobe/bdesdes/sde1201.pdf">https://sist.sathyabama.ac.in/syllabus2019/sobe/bdesdes/sde1201.pdf</a>
8.	SDE 1202	History of Interiors II	<a href="https://sist.sathyabama.ac.in/syllabus2019/sobe/bdesdes/sde1202.pdf">https://sist.sathyabama.ac.in/syllabus2019/sobe/bdesdes/sde1202.pdf</a>
9.	SDE 1203	Psychology of Interiors	<a href="https://sist.sathyabama.ac.in/syllabus2019/sobe/bdesdes/sde1203.pdf">https://sist.sathyabama.ac.in/syllabus2019/sobe/bdesdes/sde1203.pdf</a>
10.	SDE 4054	Interior Design Studio II	<a href="https://sist.sathyabama.ac.in/syllabus2019/sobe/bdesdes/sde4054.pdf">https://sist.sathyabama.ac.in/syllabus2019/sobe/bdesdes/sde4054.pdf</a>
11.	SDE 4055	Art and Craft Studio - II	<a href="https://sist.sathyabama.ac.in/syllabus2019/sobe/bdesdes/sde4055.pdf">https://sist.sathyabama.ac.in/syllabus2019/sobe/bdesdes/sde4055.pdf</a>
12.	SDE 4056	Interior Graphics II	<a href="https://sist.sathyabama.ac.in/syllabus2019/sobe/bdesdes/sde4056.pdf">https://sist.sathyabama.ac.in/syllabus2019/sobe/bdesdes/sde4056.pdf</a>
13.	SDE1301	Creative Thinking Process and Methods	<a href="https://sist.sathyabama.ac.in/syllabus2019/sobe/bdesdes/sde1301.pdf">https://sist.sathyabama.ac.in/syllabus2019/sobe/bdesdes/sde1301.pdf</a>
14.	SDE1302	Communicating Design	<a href="https://sist.sathyabama.ac.in/syllabus2019/sobe/bdesdes/sde1302.pdf">https://sist.sathyabama.ac.in/syllabus2019/sobe/bdesdes/sde1302.pdf</a>
15.	SDE2301	Materials and Construction I	<a href="https://sist.sathyabama.ac.in/syllabus2019/sobe/bdesdes/sde2301.pdf">https://sist.sathyabama.ac.in/syllabus2019/sobe/bdesdes/sde2301.pdf</a>
16.	SDE2302	Interior Services I	<a href="https://sist.sathyabama.ac.in/syllabus2019/sobe/bdesdes/sde2302.pdf">https://sist.sathyabama.ac.in/syllabus2019/sobe/bdesdes/sde2302.pdf</a>
17.	SDE9301	Interior Design Studio III	<a href="https://sist.sathyabama.ac.in/syllabus2019/sobe/bdesdes/sde9301.pdf">https://sist.sathyabama.ac.in/syllabus2019/sobe/bdesdes/sde9301.pdf</a>
18.	SDE 9302	Model making Workshop	<a href="https://sist.sathyabama.ac.in/syllabus2019/sobe/bdesdes/sde9302.pdf">https://sist.sathyabama.ac.in/syllabus2019/sobe/bdesdes/sde9302.pdf</a>
19.	SDE1401	Cultural Anthropology	<a href="https://sist.sathyabama.ac.in/syllabus2019/sobe/bdesdes/sde1401.pdf">https://sist.sathyabama.ac.in/syllabus2019/sobe/bdesdes/sde1401.pdf</a>
20.	SDE1402	Building Crafts	<a href="https://sist.sathyabama.ac.in/syllabus2019/sobe/bdesdes/sde1402.pdf">https://sist.sathyabama.ac.in/syllabus2019/sobe/bdesdes/sde1402.pdf</a>
21.	SDE9401	Interior Design Studio IV	<a href="https://sist.sathyabama.ac.in/syllabus2019/sobe/bdesdes/sde9401.pdf">https://sist.sathyabama.ac.in/syllabus2019/sobe/bdesdes/sde9401.pdf</a>
22.	SDE2401	Materials and Construction II	<a href="https://sist.sathyabama.ac.in/syllabus2019/sobe/bdesdes/sde2401.pdf">https://sist.sathyabama.ac.in/syllabus2019/sobe/bdesdes/sde2401.pdf</a>
23.	SDE2402	Interior Services II	<a href="https://sist.sathyabama.ac.in/syllabus2019/sobe/bdesdes/sde2402.pdf">https://sist.sathyabama.ac.in/syllabus2019/sobe/bdesdes/sde2402.pdf</a>
24.	SDE9402	Computer Applications I	<a href="https://sist.sathyabama.ac.in/syllabus2019/sobe/bdesdes/sde9402.pdf">https://sist.sathyabama.ac.in/syllabus2019/sobe/bdesdes/sde9402.pdf</a>

  
DEAN  
SCHOOL OF BUILDING & ENVIRONMENT  
**SATHYABAMA**  
INSTITUTE OF SCIENCE AND TECHNOLOGY  
(DEEMED TO BE UNIVERSITY)  
Jepplaar Nagar, Rajiv Gandhi Salai,  
Chennai - 600 119.

<b>SDE1101</b>	<b>FUNDAMENTALS OF VISUAL ARTS I</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credits</b>	<b>Total Marks</b>
		<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>100</b>

**COURSE OBJECTIVES:**

- To acquaint students with the basic elements/principles of design and visual art.
- To Understand the basic characteristics of different techniques, mediums and its practical applications.
- To develop a perspective of artistic and creative expression through experimentation with different tools, techniques and medium in two and three-dimensional visual art forms

**UNIT 1 CONCEPT AND MEANING OF VISUAL ARTS 8 Hrs.**

Definition and meaning of Visual Art; Categorization of Visual Art- Fine art, Contemporary arts, Decorative arts and crafts, Applied arts

**UNIT 2 ELEMENTS AND PRINCIPLES OF VISUAL ARTS 6 Hrs.**

Elements of Visual Art: colour, form, line, shape, space, texture, and value; Principles of Composition of Visual Art: balance, emphasis, harmony, movement, pattern, proportion, repetition, rhythm, unity, and hierarchy

**UNIT 3 2 DIMENSIONAL ARTS AND FORMS 6 Hrs.**

2D Methods & techniques; Drawing and Painting, Still life, Life drawing, Composition, Collage, Print making, Photography, Wall painting, Posters, Folk art forms, etc.

**UNIT 4 3 DIMENSIONAL ARTS AND FORMS 6 Hrs.**

3D Methods & techniques; Sculpture, Clay modelling, Terracotta, Carving and relief work, Paper Mache, Mask making, Construction (using waste materials), Pottery, Installations, Folk art forms, etc.

**UNIT 5 CONSTRUCTIVE ASSIGNMENTS 4 Hrs.**

Demonstrate comprehensive understanding through accompanying assignments, group discussions, and site visits.

**Max. 30 Hours**

**COURSE OUTCOME:**

- CO1** Understand the categorizations of visual art.
- CO2** Apply elements (line, shape, form, texture, color, value, and space) and principles (repetition, variety, rhythm, proportion, movement, balance, emphasis, and unity) in work that effectively communicates their ideas.
- CO3** Identify and discriminate between types of shape (geometric and organic), colors (primary, secondary, complementary, intermediates, neutrals, tints, tones, shades, and values), lines (characteristics, quality), textures (tactile and visual), and space (background, middle ground, foreground, placement, perspective, overlap, negative, converging lines positive, size, color), and balance (symmetrical, asymmetrical, radial)
- CO4** Interpret and analyse the use of proportion, rhythm, variety, repetition, and movement in their work and the works of others.
- CO5** Comprehend the various three-dimensional art forms.
- CO6** Develop and apply skills using a variety of two dimensional and three-dimensional media, tools, and processes to create works that communicate personal meaning.

**TEXT / REFERENCE BOOKS**

1. Edward Treir, (1968), Form and Space, Thames and Hudson, London
2. Stanyer, P. (2003). The Complete Book of Drawing Techniques: A Professional Guide for the Artist. United Kingdom: Arcturus.
3. Dabrowski, M. (1995). Kandinsky compositions. New York: Museum of Modern Art
4. Wong, W. (1993). Principles of Form and Design. United States: Wiley.
5. Wong, W. (1997). Principles of Color Design. United Kingdom: Wiley.
6. Wong, W. (1972). Principles of Two-Dimensional Design. United States: Wiley.



<b>SDE1102</b>	<b>HISTORY OF INTERIORS I</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credits</b>	<b>Total Marks</b>
		<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>100</b>

**COURSE OBJECTIVES:**

- To study the evolution of interior spaces through the ages.
- To understand the different styles and elements of interior design.
- To comprehend the nature of the styles with respect to the materials and the corresponding technology available.

**UNIT 1 THE BEGINNING & CLASSICAL ERA 6 Hrs.**

Prehistoric Cave paintings and indigenous expressions– Primitive Designs – Interiors during Egyptian - Geometric patterns, Greek, Roman, Gothic, Early Christian and Byzantine Periods, Ensemble of art, crafts like sculpture, pottery etc in each era, history of furniture development.

**UNIT 2 MIDDLE AGES 6 Hrs.**

Secular interiors- Understanding the changes in the life style and the furniture and other interior furnishings of Romanesque, Gothic and renaissance periods - Cultural codes embedded in images, interior element and objects, age of Exuberance, demonstrated vividly by the Baroque architecture using the Renaissance elements in a new rhetorical & theatrical fashion

**UNIT 3 COLONIAL TO THE BEGINNING OF THE 20th CENTURY 6 Hrs.**

Design principles, materials, furniture and design elements during Colonial, Victorian designs, Arts & Crafts movement, Art Nouveau, Eclectism- tangible and intangible expressions of culture and values

**UNIT 4 BAUHAUS TO POST WAR MODERNISM 8 Hrs.**

Ideologies of Walter Gropius/ Bauhaus, De Stijl, Mies Van DerRohe, Le Corbusier, Art Deco, Postwar Modernism in interiors, Works and design ideology belonging to various schools of thought & of their effects on the design movements and interior spaces in residential and public spaces.

**UNIT 5 CONSTRUCTIVE ASSIGNMENTS 4 Hrs.**

Demonstrate comprehensive understanding through accompanying assignments, group discussions, and site visits.

**Max. 30 Hours**

**COURSE OUTCOME:**

- CO1** Appreciate the art, craft and cultural development right from prehistoric age to Byzantine period.
- CO2** Understand the vibrant forms of expression of culture and lifestyle in furniture design and interior decoration during Romanesque, Gothic and Renaissance periods.
- CO3** Interrelate the changes in lifestyle to the design of furniture and interior furnishings.
- CO4** Classify the regional styles of Baroque architecture reflected through rational thinking and exhibited in interior embellishments of palatial and religious establishments.
- CO5** Correlate the design principles, materials, furniture and design elements of the various styles.
- CO6** Interpret the ideologies of the architects, interior designers and comprehend the various schools of thought.

**TEXT / REFERENCE BOOKS**

1. Pile, J. F. (2005). A History of Interior Design. United Kingdom: Laurence King.
2. Gilliat, M. (2005). Mary Gilliat's Interior Design Course. United Kingdom: Conran Octopus.
3. Whiton, A. S. (1974). Interior Design and Decoration. United Kingdom: Lippincott.
4. Binggeli, C., Ching, F. D. K. (2018). Interior Design Illustrated. United Kingdom: Wiley.
5. Fletcher, B. (1996), A History of Architecture. CBS Publishers & distributors, New Delhi





<b>SDE1103</b>	<b>SOCIETY, CULTURE AND ENVIRONMENT</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credits</b>	<b>Total Marks</b>
		<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>100</b>

**COURSE OBJECTIVES:**

- To construct knowledge on the fundamentals of art and its reflection in culture, theories and solutions related to society and culture.
- To understand the basic concepts / theories of formation of society, role of architecture in built environment and the relationship between man and the environment.
- To familiarize the students with community, various factors influencing various communities in a society and its impact on environment.

**UNIT 1 CULTURE AND ARTS 4 Hrs.**

Introduction to the elements of culture. Role of art, art reality, perception, representation categories of art in terms of media and technique, paintings, sculpture, film- basic characteristics and development of each field, aspects of literature, performing arts - theatre, dance, music with examples from different cultural contexts.

**UNIT 2 CULTURE AND SOCIETY 8 Hrs.**

Importance of Culture and social identity with reference to architecture, Evolution of civilization and cultures, groups, society, culture, environment and time, Levels of social organization & the evolution of various social groups over time, human habitat to be related with culture and various contexts with examples in different eras, research on cultural anthropology.

**UNIT 3 CONSTRUCTION AND CULTURE 8 Hrs.**

Relationship between nature and architecture. Architecture and its context, Social and cultural aspects of building practices, Role of intuition, innovation, inventiveness, creativity, ingenuity, expression of power in construction and the origin of the Architect and the master builder Construction as an agent of change, emergence of the specialist, designer and builder relationship, culture of construction workers.

**UNIT 4 BUILT ENVIRONMENT 6 Hrs.**

Introduction to history and theory of built forms - Geographical location, politics, religion, materials and construction techniques with examples in different contexts. Understanding human cultural development, built form and cultural context. Expression of the under lying value systems and relationship with the built form.

**UNIT 5 CONSTRUCTIVE ASSIGNMENTS 4 Hrs.**

Book Review on Culture, Architecture and design by Amas Rapoport. Assignment on the topic - Aspects influencing the experience and expression - place, people, society, culture, history, tradition, time etc. through Case studies of architects' work. Document the existing communities in urban spaces that illustrate the current socioeconomic and cultural pattern, and show the impact of socio-cultural change on age and the built environment.

**Max. 30 Hours**

**COURSE OUTCOME:**

- CO1** Familiarize the cultural contexts, development of various art forms and their representation during different time periods.
- CO2** Comprehend the relationship between society, culture and the environment.
- CO3** Impart knowledge on the evolution of social groups over time and human habitat related with various context and culture.
- CO4** Appraise the relationship of construction with respect to society and their culture and also the emergence of the Architect.
- CO5** Summarize the different cultural context and analyze their relationship with the design of built forms.
- CO6** Relate the role of culture and human behavior in a society and their response to environment.

**TEXT / REFERENCE BOOKS**

1. Lewis, Jeff. (2002) Cultural Studies - The Basics. SAGE Publications.
2. Rapoport, A.(2005). Culture, Architecture, and Design. Locke Science Publishing Company.
3. Rapoport, A. (1990). The Meaning of the Built Environment: A Nonverbal Communication Approach. United Kingdom: University of Arizona Press.
4. Stolley, Kathy S. (2005) The Basics of Sociology. London: Greenwood press.
5. James W. Spradley Late, D. W. (2015). Conformity and Conflict: Readings in Cultural Anthropology. Pearson; 15 edition.
6. Rapoport, A. (1969). House Form and Culture. Pearson; 1 edition.
7. Saile, D. G. (1986). Architecture in Cultural Change: Essays in Built Form and Culture Research. University of Kansas.



<b>SDE4051</b>	<b>INTERIOR DESIGN STUDIO I</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credits</b>	<b>Total Marks</b>
		<b>0</b>	<b>0</b>	<b>8</b>	<b>6</b>	<b>300</b>

**COURSE OBJECTIVES:**

- The studio aims at initiating the process of creativity and appreciation for design thinking. It promotes a workshop-based environment that will improve the thinking skills, investigative abilities, visualization, communication and graphical skills

**MODULE 1 VISUAL PRINCIPLES**

**50 Hrs.**

Exposure to various elements and principles of art and design in 2D. Expressions and explorations using Points, Lines, Planes and Volumes. Its relation in context to nature and environment. Principles of colour theory and explorations. Understanding of the visual relationships – balance, proportion, order, symmetry, rhythm, etc. Study of visual principles of composition: grids, layouts, asymmetry, balance and asymmetry. Fundamentals of Symmetry and Patterns in Nature. Evolution of Form in Nature. Triangles, Hexagons and rigid structures.

**MODULE 2 TWO DIMENSIONAL EXPRESSIONS**

**50 Hrs.**

Work by Buckminster fuller and concept of sustainable structures. Understanding Fibonacci series and the Golden ratio, Geometry of shapes, Exploration in mixed media & collage to convey a specific theme and meaning.

**MODULE 3 THREE DIMENSIONAL EXPRESSIONS**

**50 Hrs.**

Exposure to various elements of 3D and principles of art and design in 3D . Expressions and explorations of spaces and Volumes. Experimentations with Form, Texture, Colour and space. Its relation in context to nature and environment, Radian Manipulation, Form Transition, Morphology Exposure to form and movement, Form and metaphors - inspirations from nature, geometry, study of precedents, origami, puzzles etc,

**Max. 150 Hours**

**TEXT / REFERENCE BOOKS**

1. Farrelly, L. (2017). The Fundamentals of Architecture. United Kingdom: Bloomsbury Publishing.
2. Ching, F. D. K. (2014). Architecture: Form, Space, and Order. Germany: Wiley.
3. Jones, J. C. (1992). Design Methods. United Kingdom: Wiley.
4. Lawson, B. (2005). How Designers Think. (n.p.): Taylor & Francis.
5. Laseau, P. (2001). Graphic Thinking for Architects and Designers. United Kingdom: Wiley.
6. Ching, F. D. K., Juroszek, S. P. (2019). Design Drawing. United States: Wiley.
7. Weigand, J., Faimon, P. (2004). The Nature of Design. United States: F+W Media.
8. Pipes, A. (2003). Foundations of Art and Design. United Kingdom: Laurence King.
9. White, A. W. (2011). The Elements of Graphic Design. United Kingdom: Allworth.
10. Elam, K., Thompson, J. N. (2001). Geometry of Design: Studies in Proportion and Composition. New York: Princeton Architectural Press.

<b>SDE4051</b>	<b>THEORY OF INTERIOR DESIGN</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credits</b>	<b>Total Marks</b>
		<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>100</b>

**COURSE OBJECTIVES:**

- To introduce students to the basic elements of design, its principles, visual aspects, along with preparation, design vocabulary and thereby the application of these in design.
- To strengthen the students understanding of human factors and dimensions while designing interior spaces and accessories.
- To enable students to explore the design process by identifying the design parameters and formulating concepts while emphasizing function and aesthetics.

**UNIT 1 INTERIOR SPACE**

**8 Hrs.**

Space–definition; elements of interior spaces, Interior space–spatial qualities: form, scale, outlook; structuring space with interior design elements; spatial form; spatial dimension – square, rectangle, curve linear spaces; height of space; spatial transitions – openings within wall planes, doorways, windows, stairways; horizontal and vertical circulation

**UNIT 2 DESIGN VOCABULARY & PRINCIPLES**

**9 Hrs.**

Principles of perception, Form – point, line, volume, shape, texture and color – in relation to light, pattern, Ratio; proportions – golden section; relationships; scale; Balance – symmetrical, radial, occult; harmony; unity; variety; rhythm; emphasis, Synthesis of these elements evolves understanding of interior space, , static and dynamic aspects of spaces.

**UNIT 3 ANTHROPOMETRICS**

**6 Hrs.**

Definition, body link system, static and dynamic anthropometry, theory of standard dimension based on human figures for activities, functions, circulation, furniture design, spatial requirements etc, relationship between human activities and anthropometrics, introduction to ergonomics, Design of Furniture for Living, Dining, Kitchen, Office etc.

**UNIT 4 DESIGN PROCESS**

**7 Hrs.**

Design process–Design criteria–function and purpose, utility and economy, form and style; human factors-human dimensions, distance zones, activity relationships, function, aesthetics values, ways to incorporate exuberance in interiors.

**Max. 30 Hours**

**COURSE OUTCOME:**

- CO1** Recognize the two-dimensional aspects of spatial elements and their applications in interior spaces.
- CO2** Develop an understanding of design vocabulary and thereby perceive the visual environment.
- CO3** Interpret the principles of design using spatial elements and compositions in interior space
- CO4** Comprehend the relationship between form, dimensions of interior space and human dimensions and also between human factors and activity relationships
- CO5** Understand the need and relationships between anthropometric requirements and various functions of a space
- CO6** Develop the ability to analyse the design problem, synthesize the response and critically evaluate the design thereby define the cyclic design process

**TEXT / REFERENCE BOOKS**

1. Binggeli, C., Ching, F. D. K. (2012). Interior Design Illustrated. United Kingdom: Wiley.
2. The Handbook of Interior Design. (2015). United Kingdom: Wiley.
3. Linton, H. (2003). Color in Architecture: Design Methods for Buildings, Interiors, and Urban Spaces. United Kingdom: McGraw-Hill.
4. Poore, J., Ragan, S. L. (1994). Interior Color by Design: A Design Tool for Architects, Interior Designers, and Homeowners. Hong Kong: Rockport Publishers.
5. Whiton, S. (2013). Elements Of Interior Design And Decoration. United Kingdom: Read Books Limited.



<b>SDE4052</b>	<b>ART&amp; CRAFT STUDIO I</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credits</b>	<b>Total Marks</b>
		<b>0</b>	<b>0</b>	<b>8</b>	<b>4</b>	<b>200</b>

**COURSE OBJECTIVES:**

- Develop sketching and visual representation in different media of different 2-dimensional art forms, painting and interior decoration of walls and floors.
- Understand the three-dimensional art and craft forms, natural forms, structure and learn to model the same in different media.
- Investigate the properties and appropriate use of materials in different craft forms.

**MODULE 1 TWO-DIMENSIONAL ART, CRAFT AND DESIGN 30 Hrs.**

Sketching and visual representations in various media -image-making, image manipulation and development - enlargement, cropping, reversing, abstraction, changes in colour and treatment - sequential imagery. Imagery from imagination, memory and direct observation. Knowledge of forms and their representation on 2d surface, light & shade, texture, colour variation, perspective etc.

**MODULE 2 THREE-DIMENSIONAL ART, CRAFT AND DESIGN 30 Hrs.**

Selection of two outdoor objects /systems and observation of their natural occurrence, relationships with context form, structure,colour textures and functions- 3-dimensional modelling in appropriate medium - Clay, Paper, wire, Plastic, wax etc.Ceramic work- Sculpting techniques on a plane surface; Soap and wax- The cutting of material such as soap or wax to form a figure or design; Clay modelling- Clay modelling will be able to sculpt or make any kind of a model. Making of creative shapes.

**MODULE 3 UNDERSTANDING MATERIALITY 30 Hrs.**

Selection of two materials used in everyday life – textiles, earthenware terracotta, metals, stone, plastic, paper, wax, glass, wood, wire, etc. and study its properties and materiality. Processes of additive, subtractive and constructional form-making in expressive and functional modes.

**MODULE 4 VISUALIZATION TECHNIQUES AND STORYBOARDING 30 Hrs.**

Concept- A theoretical and practical approach in understanding an abstract or generic idea from Particular instances. Storyboard/ Cartoon making Graphical representation in the form of illustrations or images displayed in sequence for the purpose of pre-visualizing the area of student's interest. A series of drawings that tells a story.Expressive and Communicative aspects. Implementing abstract or generic ideas into a Visual Identity.

**Max. 120 Hours**

**COURSE OUTCOME:**

- CO1** Understand and interpret different art forms in different media while appreciating artistic expressions
- CO2** Develop the ability to manipulate various types of images.
- CO3** Develop skills in image making, and development of sequential imagery
- CO4** Understand the various techniques of three-dimensional modelling using different mediums.
- CO5** Understand the properties and applications of any two materials in different craft forms like terracotta, metal craft
- CO6** Develop a narrative approach to their art work

**TEXT / REFERENCE BOOKS**

1. John W.Mills (1966). The Technique of Sculpture, B.T.Batsford Limited, New York - Reinhold Publishing Corporation, London.
2. C.LawrenceBunchy. (1972). Acrylic for Sculpture and Design, New York
3. Ching, F. D. K. (2014). Architecture: Form, Space, and Order. Germany: Wiley.
4. Jones, J. C. (1992). Design Methods. United Kingdom: Wiley.
5. Lawson, B. (2005). How Designers Think. (n.p.): Taylor & Francis.
6. Ching, F. D. K., Juroszek, S. P. (2019). Design Drawing. United States: Wiley.
7. Pipes, A. (2003). Foundations of Art and Design. United Kingdom: Laurence King.
8. White, A. W. (2011). The Elements of Graphic Design. United Kingdom: Allworth.



<b>SDE4053</b>	<b>INTERIOR GRAPHICS I</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credits</b>	<b>Total Marks</b>
		<b>1</b>	<b>0</b>	<b>3</b>	<b>3</b>	<b>200</b>

**COURSE OBJECTIVES:**

- To outline the basic principles of drafting and rendering techniques
- To understand plane and solid geometry, isometric and axonometric view
- To familiarize with simple objects and building components through measured drawing.

**UNIT 1 INTRODUCTION**

**12 Hrs.**

Introduction to fundamentals of drawing/ drafting: Construction of lines, line value, line types, lettering, architectural notations & dimensioning. Basic rendering techniques, basics of sheet presentation drawing, drawing instruments, sheet layout. Use of scale, free hand and geometric construction of Lines

**UNIT 2 GEOMETRICAL DRAWING - PLANE GEOMETRY**

**12 Hrs.**

Construction of shapes - angles, circles, tangents. Construction of Plane Curves: Ellipse, Parabola and Hyperbola. Principles of orthographic projections, Construction and multiview projection of - Points, lines, square, rectangle, polygon, etc.

**UNIT 3 GEOMETRICAL DRAWING - SOLID GEOMETRY**

**16 Hrs.**

Multi- view projection of solids – cube, prism, pyramids, cones, cylinders etc.; Sections of solids, true shape of solids.

**UNIT 4 MEASURED DRAWING**

**8 Hrs.**

Study of plan, section and elevation of simple objects, simple building components and furnitures through documentation exercises.

**UNIT 5 ISOMETRIC AND AXONOMETRIC VIEW**

**12 Hrs.**

Isometric and Axonometric projection of planes, solids and combination of solid etc. Isometric and Axonometric projection of simple objects, building components etc.

**Max. 60 Hours**

**COURSE OUTCOME:**

- CO1** Understand the concepts and fundamentals of architectural drawing.
- CO2** Develop representation skills and to generate geometrical forms and its projections.
- CO3** Ability to represent various solids and its sectional projection.
- CO4** Measure real objects and represent them graphically.
- CO5** Create three-dimensional solids and combination of solids
- CO6** Develop graphical skill to represent real time objects.

**TEXT / REFERENCE BOOKS**

1. Ching, F. D. (2015). Architectural graphics. John Wiley & Sons.
2. Reekie, R. F., & McCarthy, T. (1995). Reekie's architectural drawing. Edward Arnold.
3. Morris, I. H. (1912). Geometrical drawing for art students. Longmans, Green.
4. Martin L.C. (1978). Architectural Graphics, The Macmillan Company, New York.
5. Dinsmore.G.A. (1968). Analytical Graphics, Van Nostrand, Company Inc., Canada.
6. Elam, K., Thompson, J. N. (2001). Geometry of Design: Studies in Proportion and Composition. New York: Princeton Architectural Press.
7. Laseau, P. (2001). Graphic Thinking for Architects and Designers. United Kingdom: Wiley.



## SEMESTER 2

SDE1201	FUNDAMENTALS OF VISUAL ARTS II	L	T	P	Credits	Total Marks
		2	0	0	2	100

### COURSE OBJECTIVES:

- To develop an insight towards sensibility and aesthetic appreciation.
- To understand cultural diversity by recognizing different traditional art forms prevalent in the country.
- To determine how visual art has influenced world cultures throughout history

### UNIT 1 VISUAL CULTURE 6 Hrs.

Understanding visual culture; Visual Theories; Visual Design; Symbolism, Time, Sound; Point of View, Visual Experience of historical artefacts, relating visual experience to the cultural context.

### UNIT 2 VISUAL ART HISTORY: POST RENAISSANCE 8 Hrs.

Art history to come as various eras, styles and isms- Pre-Renaissance: Prehistoric Era, Ancient Civilizations, Classical Civilizations, Early Christian, Byzantine, Islamic, Romanesque, Gothic, Renaissance; Post-Renaissance: Baroque and Rococo, Neo Classicism, Impressionism, Expressionism, Cubism, Futurism, Surrealism, Pop art, Contemporary Art; Critically analyse art works and why works of art, craft and design change over in various times and from one place to another.

### UNIT 3 APPLIED ARTS 4 Hrs.

Applied Arts- Book cover design and illustration, cartoon, poster, advertisements for newspaper, magazine, hoardings, T.V., photography, computer graphics, animation, printing processes.

### UNIT 4 ART CRITICISM AND AESTHETICS 8 Hrs.

Purpose of Art Criticism; Steps of Art Criticism: Description, Analysis, Interpretation, Judgement; Aesthetic theories in Visual Art, Painting, Architecture and Sculpture, Artistic Styles, Aesthetic Experience Modes of Aesthetic Experience, Basics of Aesthetic values, Aesthetics of Thinking and Creativity, Taste and Aesthetes, Aesthetics of Symbols and Language Qualities of Visual Art- literal qualities, formal qualities, expressive qualities

### UNIT 5 CONSTRUCTIVE ASSIGNMENTS 4 Hrs.

Demonstrate comprehensive understanding through accompanying assignments, group discussions, and site visits.

**Max. 30 Hours**

### COURSE OUTCOME:

- CO1** To gain understanding and appreciate aesthetics within various visual art styles.
- CO2** To gain knowledge of works of well-known artists both contemporary as well as historical etc.
- CO3** Develop an ability to distinguish innovative applications of the elements of art and principles of design in visual artworks
- CO4** Understand compositional techniques of various contemporary and historical applied arts
- CO5** Articulate various compositional understandings and to provide visual criticism of various works of art
- CO6** Apply skills using a variety of two dimensional and three-dimensional media, tools, and processes to create works that communicate personal meaning

### TEXT / REFERENCE BOOKS

1. Lawson, B. (2001). Language of Space, Architectural Press.
2. Tuan, Y., Hoelscher, S., (2001). Space and Place: The perspective of experience, University of Minnesota Press.
3. Ryan, M, (2004). Narrative across Media: The Languages of Storytelling, University of Nebraska Press.
4. Langellier K., Peterson B., (2004). Storytelling in Daily Life: Performing Narrative, Temple University Press.



<b>SDE1202</b>	<b>HISTORY OF INTERIORS II</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credits</b>	<b>Total Marks</b>
		<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>100</b>

**COURSE OBJECTIVES:**

- To understand the tradition and culture of various region of India and their adaptation in interiors.
- To develop an insight into the evolution of interiors in Chinese, Japanese and Islamic culture.
- To introduce the evolution of interiors in Nordic culture.
- To impart the design practices of the contemporary interiors.

**UNIT 1 INDIAN TRADITIONAL DESIGNS 6 Hrs.**

Traditional Styles of design & decorations of homes & accessories across the states in India including Rajasthan, Gujarat, Andhra, Tamil Nadu, Madhya Pradesh etc.

**UNIT 2 NON-EUROPEAN TRADITIONS 8 Hrs.**

Interiors in China, Japan & the Islamic World–Influences of Pre-Columbian American art & culture, African influences in interiors, embedded values of culture in the interior environments

**UNIT 3 NORDIC TRADITIONS 6 Hrs.**

Principles of Interior Design in Sweden, Finland, Norway works of Aalvar Alto, GunarAsplund, Eero Saarinen etc., Scandinavian minimalism

**UNIT 4 RECENT DIRECTIONS 6 Hrs.**

Design movements such as Late Modernism, High Technology, Post Modernism, and De-Constructivism and Minimalism

**UNIT 5 CONSTRUCTIVE ASSIGNMENTS 4 Hrs.**

Demonstrate comprehensive understanding through accompanying assignments, group discussions, and site visits.

**Max. 30 Hours**

**COURSE OUTCOME:**

- CO1** Comprehending the traditional designs and reflections on society and culture in the space planning of the interiors in Indian context.
- CO2** An insight to the ideologies followed in the non-European traditions in interior design and decorations.
- CO3** Understand the design principles and aesthetic values of interior design in Nordic traditions.
- CO4** Overview the recent design movements, widening knowledge in minimalism, sustainability and innovations.
- CO5** Relate each of the design movements with the social-cultural context, and time.
- CO6** Apply the understanding from Historic context in their own design, with a reasonable justification.

**TEXT / REFERENCE BOOKS**

1. Lawson, B. (2001), Language of Space, Architectural Press.
2. Tuan, Y., Hoelscher, S., (2001). Space and Place: The perspective of experience, University of Minnesota Press.
3. Low S., Lawrence D., (2003). Zunigias, Anthropology of Space and place: Locating Culture, Wiley – Blackwell publishers
4. Altman I., Zube E., (1989). Public spaces and places, (Human Behavior and environment), Springer.
5. Downs R., Stea D., Boulding K., (2005). Image and environment, Transaction Publishers.



<b>SDE1203</b>	<b>PSYCHOLOGY OF INTERIORS</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credits</b>	<b>Total Marks</b>
		<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>100</b>

**COURSE OBJECTIVES:**

- To expose the students to the role of users' psychology and the relationship in interior design.
- To give an overview of psychological impact of colour and lighting in the interior spaces.
- To understand the role of space design on the psychology of the human and their behaviour.

**UNIT 1 PERCIEVING INTERIOR SPACES 6 Hrs.**

Psychological Motivations for Affecting Spaces - Identity Claims, Thought and Feeling Regulators, Behavioural Residue; Expression of Psychological Attributes in Interior Environments; Environmental Perception - probabilistic functionalism and collative properties; Perception of spaces at home and work

**UNIT 2 COLOUR AND ITS EFFECTS IN INTERIOR ENVIRONMENT 8 Hrs.**

Characteristics of colour, Psychological and physiological effect of colour, Meaning of Warm, Cool and Neutral Colour, colour and emotions, Effect of Colour in Form, Emotional Response to Colour in Interior Spaces

**UNIT 3 LIGHT IN INTERIORS 6 Hrs.**

Glass and carpet colourful components in interior ancient architecture, elements of lighting and psychology of lighting, Light as a Cognitive Map and Emotional Driver, Light as a Gestaltic Device, Light vs. Dark, Lighting and Environment: Towards an "Ecological" Approach to Light Perception in interiors

**UNIT 4 PSYCHOLOGY AND DESIGN PROCESS IN INTERIOR DESIGN 6 Hrs.**

Psychological qualities, emotional responses and aesthetic qualities of the environment – essence of complexity, novelty, surprises and incongruity in interior environment -related the design process and creativity

**UNIT 5 CONSTRUCTIVE ASSIGNMENTS 4 Hrs.**

Demonstrate comprehensive understanding through accompanying assignments, group discussions, and site visits.

**Max. 30 Hours**

**COURSE OUTCOME:**

- CO1** Understand the various psychological attributes in interiors.
- CO2** Articulate the coexistence of more than one psychological aspect and to determine which of the aspects play a dominant role.
- CO3** Inculcate the role of colours, patterns and psychological impacts in the interior environment.
- CO4** Comprehend the importance of natural and artificial light, their application and perception in interior design.
- CO5** Design interiors incorporating the emotions and aesthetic values.
- CO6** Apply psychological aspects in their own design.

**TEXT / REFERENCE BOOKS**

1. Gilliatt, M. (2005). Mary Gilliatt's Interior Design Course. United Kingdom: Conran Octopus.
2. Binggeli, C., Ching, F. D. K. (2012). Interior Design Illustrated. United Kingdom: Wiley.
3. Egan, M. D. (1983). Concepts in Architectural Lighting. United Kingdom: McGraw-Hill.
4. The Handbook of Interior Architecture and Design. (2013). United Kingdom: Bloomsbury Publishing.
5. Kopec, D. A., Kopec, D. (2006). Environmental Psychology for Design. United Kingdom: Bloomsbury Academic.





<b>SDE4054</b>	<b>INTERIOR DESIGN STUDIO II</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credits</b>	<b>Total Marks</b>
		<b>0</b>	<b>0</b>	<b>12</b>	<b>8</b>	<b>400</b>

**COURSE OBJECTIVES:**

- To understand the process of evolution from program and conditions to concept, design and graphical representation of the process.
- To comprehend the fundamentals of small functional spaces understanding the anthropology as well as sensitivity to materials.

**MODULE 1**

**90 Hrs.**

Design of simple functional units with universal access compliance such as: Toilet for a physically handicapped person - hostel room, bed room, kitchen, Shop, Workshop, pavilions, snack bar.

**MODULE 2**

**90 Hrs.**

Design of multiple spaces and understanding their inter-relationships, such as: Residence, petrol bunk, fire station, police station, Cottage for an elderly couple

**Max. 180 Hours**

**TEXT / REFERENCE BOOKS**

1. Neufert E, Neufert P, (2012). "Neufert Architect's Data", Wiley Blackwell Publication, UK.
2. Dechiara J., Panero J., Zelnik M., (2011). "Time Saver Standards for Interior design and Space Planning", McGraw Hill, London.
3. Dechiara J., Panero J., (2011) "Standards for Interior Design and Space Planning", McGraw Hill Professional.
4. Jones, J. C. (1992). Design Methods. United Kingdom: Wiley.
5. Lawson, B. (2005). How Designers Think. (n.p.): Taylor & Francis.
6. Laseau, P. (2001). Graphic Thinking for Architects and Designers. United Kingdom: Wiley.
7. Weigand, J., Faimon, P. (2004). The Nature of Design. United States: F+W Media.
8. Pipes, A. (2003). Foundations of Art and Design. United Kingdom: Laurence King.

SDE4055	ART& CRAFT STUDIO II	L	T	P	Credits	Total Marks
		0	0	8	4	200

**COURSE OBJECTIVES:**

- To utilize models as technique for design presentations
- To construct models as a way of representation and experimentation
- To gain an ability to integrate all the technical aspects of sculpture, modelling, and storytelling as means to realize his creative ideas to shape in to concrete and significant art form.

**MODULE 1 CREATIVE REPRESENTATIONS OF SPACES**

**50 Hrs.**

To introduce the techniques used in modelmaking. Need for architectural models. Role of scale-models in design. Processes of additive, subtractive and constructional form-making in expressive and functional modes - Developing of surfaces and solids viz. Cubes, prisms, cylinders, pyramids, cones, spheres, etc. Development of transition pieces using appropriate materials. Various materials and tools to be used in model making.

**MODULE 2 MODELMAKING**

**40 Hrs.**

Representation of various building elements like Walls, Columns, Steps, Windows/glazing, Sunshades, Handrails, Furniture using materials viz. Paper/ Snow-white board / mount board / cardboard / Acrylic / Polystyrene (thermocole) / softwood / metals, etc. Various site elements – Contour representation, Roads/Pavements, Trees/Shrubs, Lawn, Water bodies, Street furniture, Fencing etc. Need for architectural models. Making models of the various interior spaces such as • Residences • Offices • Retail Spaces • Recreational Spaces. Scaled models of furniture.

**MODULE 3 FINISHES**

**30 Hrs.**

Painting model surfaces with various finishes, development of topography and landscape elements, use of materials like cork, polyurethane foam, use of laser, acid etching, stereolithography for development building model surfaces. Representing various surface finishes like brick/stone representation, stucco finish etc.Exercise involving the design of simple furniture and making a model of the same.

**Max. 120 Hours**

**COURSE OUTCOME:**

- CO1** Understand and interpret different art forms in different media while appreciating artistic expressions
- CO2** Observe and interpret different forms and qualities in objects and environments
- CO3** Communicate their personal thoughts and ideas through various mediums of art
- CO4** Design and model craft forms using any medium
- CO5** Develop a narrative approach to their art work
- CO6** Interpret the different storied communicated through artwork of various types

**TEXT / REFERENCE BOOKS**

1. John W.Mills (1966). The Technique of Sculpture, B.T.Batsford Limited, New York - Reinhold Publishing Corporation, London.
2. Ching, F. D. K. (2014). Architecture: Form, Space, and Order. Germany: Wiley.
3. Jones, J. C. (1992). Design Methods. United Kingdom: Wiley.
4. Pipes, A. (2003). Foundations of Art and Design. United Kingdom: Laurence King.
5. White, A. W. (2011). The Elements of Graphic Design. United Kingdom: Allworth.
6. Smith H., (1982). The art of making furniture in miniature, E.P.Dutton Inc., New York.



<b>SDE4056</b>	<b>INTERIOR GRAPHICS II</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credits</b>	<b>Total Marks</b>
		<b>1</b>	<b>0</b>	<b>3</b>	<b>3</b>	<b>200</b>

**COURSE OBJECTIVES:**

- To outline the basic principles of perspective drawing and sciography.
- To measure and document the built form and represent it graphically.
- To develop the skill required for constructing a complete rendered three-dimensional simple built form.

**UNIT 1 INTRODUCTION OF PERSPECTIVE DRAWING 8 Hrs.**

Study of concepts, types and terminologies such as picture plane, station point, vanishing point, eye level, ground level, Horizon line etc. Technical construction of one point, two point and three-point perspective drawings through exercises on simple objects like cube, prism, combination of shapes and views at various eye levels.

**UNIT 2 PERSPECTIVE: SCIENTIFIC METHOD & OFFICE METHOD 16 Hrs.**

One point, two and three-point perspective of building interiors and exteriors. Adding figures, trees, furniture etc., shade and shadows. Introduction to office perspective method.

**UNIT 3 SCIOGRAPHY 16 Hrs.**

Principles of shade and shadow- construction of shadow of simple geometrical shapes - point, line and planes. Construction of sciography on, Interior elements.

**UNIT 4 MEASURED DRAWING: DOCUMENTATION 10 Hrs.**

Documentation of a complete building of a special interest in terms of history, building construction, architectural excellence or technology by using simple measuring tools like tapes, photographs etc.

**UNIT 5 INTERIOR RENDERING 10 Hrs.**

Techniques of rendering for various interior drawings - Colour Pencils Rendering, Watercolor Rendering, Pen & Ink Rendering, Marker Rendering Techniques, Using Mixed Media Rendering Techniques - Plans, site plan, elevations, views etc,

**Max. 60 Hours**

**COURSE OUTCOME:**

- CO1** Understand the concepts and fundamentals of perspective drawing.
- CO2** Construct the perspective drawings of the buildings and 3d views.
- CO3** Develop representation skills in three dimensional drawings and sciography.
- CO4** Develop the skill of architectural drawing through measured drawing of complex structures.
- CO5** Apply rendering techniques in architectural drawings.
- CO6** Construct a complete rendered three-dimensional drawing of a simple built form.

**TEXT / REFERENCE BOOKS**

1. Alkins B., (1986). Architectural Rendering, Walter Foster Art Books.
2. Batley C., (1954) Indian Architecture, D.B. Taraporevale Sons and Co. Ltd., Bombay
3. Norling E., (1986). Perspective drawing, Walter Foster Art Books, California.
4. Ching D.K., (2012) Architectural Graphics. United States: Wiley.
5. Dinsmore G., (1968). Analytical Graphics, Van Nostrand, Company Inc., Canada.
6. Holmes J., (1954). Applied Perspective, Sir Isaac Pitman and Sons Ltd., London.
7. Martin L., (1964). Architectural Graphics, The Macmillan Company, New York.
8. Gill R., (1974). Basic Perspective, Advanced Perspective, Thames and Hudson, London.

## SEMESTER 3

SDE 1301	CREATIVE THINKING PROCESS AND METHODS	L	T	P	Credits	Total Marks
		2	0	0	2	100

### COURSE OBJECTIVES:

- To introduce 'design' as an integral feature and a product of larger socio-cultural issues and practices.
- To familiarize the young minds with the nature of design problems, methodology, creative techniques and the outcomes
- To explore the various channels to creativity and the directions through which they are expressed in the built form and the environment.

### UNIT 1 INTRODUCTION TO DESIGN

6 Hrs.

Definition of Design, Understanding of Design, Purpose and nature of good design, evaluation of design, types of Design classifications, role of a designer, Scale, process and production; Context for design problems, design process, stages in the design processes, from different considerations - Broadbent, Christopher Alexander, Wade.

### UNIT 2 DESIGN PROBLEMS AND DIRECTIONS

4 Hrs.

Context for the rise of the Design Methodology Movement, Different approaches in design- synchronous and asynchronous approaches, regression and escalation, participatory approach to design, design as process involving time and people, problem solving or intuitive, formulation of problems, nature of creative design problems, goals in design, different types of designs and the thrust given to the various solutions.

### UNIT 3 DESIGN THINKING

8 Hrs.

Understanding the terms creativity, imagination etc. Theories on thinking, convergent & divergent thinking, lateral & vertical thinking, six hat thinking by Edward de Bono. Creative techniques like checklists, brainstorming, diagramming, mapping, parametric exploration, etc, design puzzles & traps, blocks in creative thinking. Introduction to various theories in Design such as aesthetic theory, proxemic theory. Theory related to human behaviour and environmental design.

### UNIT 4 CHANNELS TO CREATIVITY

8 Hrs.

Types of concepts, process of creativity, tangible and intangible channels to creativity in Architecture and Design - the obscure, metaphors, transformation, paradox, precedents, nature, association with other arts, literal interpretation, materials, geometry, origami, literature and poetry etc. Philosophies of famous Architects and Designers.

### UNIT 5 CONSTRUCTIVE ASSIGNMENTS

4 Hrs.

Demonstrate comprehensive understanding through accompanying assignments, group discussions, and site visits.

**Max. 30 Hours**

### COURSE OUTCOME:

- CO1** Understand the types of design problems, need to decode the brief to evolve 'problem driven outcomes.
- CO2** Understand, compare and synthesize mapped design methodologies in various contexts.
- CO3** Critically analyze the different types of thinking.
- CO4** Comprehend the various creative techniques in design related fields
- CO5** Investigate techniques to identify new directions in design thinking.
- CO6** Identify the various channels to creativity and critically analyze the direction through which the ideas are translated in architectural domain

### TEXT / REFERENCE BOOKS

1. Alexander C., (1977). Pattern Language, Oxford University Press.
2. De Bono E., (1970) Lateral Thinking: Creativity step by step, Harper & Row.
3. Broadbent G., (1973) Design in Architecture, Architecture & Human Sciences, John Wiley & sons, New York
4. Thackara J., (2005). In the Bubble: Designing in a Complex World, The MIT Press.
5. Hanington B., Martin B., (2012) Universal Methods of Design: 100 Ways to Research Complex Problems, Develop Innovative Ideas, and Design Effective Solutions, Rockport Publishers.
6. Whitten J., Bentley L., (2005). Systems Analysis and Design Methods, McGraw-Hill/Irwin.

<b>SDE1302</b>	<b>COMMUNICATING DESIGN</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credits</b>	<b>Total Marks</b>
		<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>100</b>

**COURSE OBJECTIVES:**

- To develop methods for critical thinking and analysis.
- To help the students develop opinions on various design related topics.
- To develop new platforms and formats for their writing.
- To examine how space is conceived and conceptualised
- To evaluate texts
- To investigate “visual language”, symbolism, and some of the pictorial devices, materials, and techniques employed by designers to tell stories visually

**UNIT 1 COMMUNICATION PRINCIPLES 6 Hrs.**

Process of Communication. Transmission of ideas, facts & figures from one person to another. Kinds of Communication: Oral and Written, Verbal and Non-Verbal. Levels of Communication: Intrapersonal, Interpersonal, Group, Mass Communication.

**UNIT 2 READING DESIGN 4 Hrs.**

Reading skills: Model of reading to learning, reading tactics and strategies, reading purposes – associated apprehensions, reading for meaning, reading outcomes; Reading Space and its qualities; Presentations and writings of great design theorists

**UNIT 3 DESIGN STORYTELLING AND NARRATIVES 8 Hrs.**

Elements of a good story: facts, situation, characters, plot and resolution of a design project; Building context in the design process: Emotional, Environmental, Social context; Organising ideas- Personas, storyboards, and flowcharts; Documenting processes through writing

**UNIT 4 REPRESENTATION OF SPACE 8 Hrs.**

Innovation with orthographic drawings- beyond the plan, elevation, section; Perspectives and Montages; Maps and Models; Interior space and its occupation, experience and perception; Constructing and interpreting layers of meaning within interior spaces.

**UNIT 5 CONSTRUCTIVE ASSIGNMENTS 4 Hrs.**

Demonstrate comprehensive understanding through accompanying assignments, group discussions, and site visits.

**Max. 30 Hours**

**COURSE OUTCOME:**

- CO1** Explore innovative ways of researching and writing about contemporary design and culture.
- CO2** Create valid arguments and to argue for and against ideas
- CO3** Analyse structure of oral and written arguments
- CO4** Critically evaluate design ideas.
- CO5** Understand and apply various spatial representations for their own designs.
- CO6** Produce a booklet of the ideas and themes discussed.

**TEXT / REFERENCE BOOKS**

1. Cottrell, S. (2005). Critical Thinking Skills: Developing effective analysis and argument. New York: Palgrave McMillan.



<b>SDE2301</b>	<b>MATERIALS AND CONSTRUCTION - I</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credits</b>	<b>Total Marks</b>
		<b>2</b>	<b>0</b>	<b>2</b>	<b>3</b>	<b>200</b>

**COURSE OBJECTIVES:**

- To identify the components of a building including the structural systems.
- To understand the properties and uses of varied natural, synthetic materials.

**UNIT 1 NATURAL MATERIALS**

**14 Hrs.**

Natural building materials – renewable and nonrenewable resources - Definitions, types and applications - soil, sand, aggregate, clay, gravel, timber, coconut leaf, reed, bamboo, Palmyra leaf, lime – Fencing and temporary shelters. Wood-Soft and hardwood. Fabrics – textile, Jute, leather etc. different types and their uses.

**UNIT 2 SYNTHETIC MATERIALS**

**16 Hrs.**

Synthetic Materials–Different types of Glass, their properties, manufacturing processes and uses. Plastics – injection moulding& other manufacturing methods, etc. Plywood, laminated wood and particleboards–properties, manufacture & uses.

**UNIT 3 BUILDING COMPONENTS**

**20 Hrs.**

Introduction to the fundamental components of a building (sub-structure & superstructure) indicating - Foundation –brick footing, stone footing &rcc column footing; concrete flooring, plinth beam & floor finish; superstructure- brickwork with sill, lintel, windows& sunshade, Flat rcc roof with weathering course, parapet & coping.

**UNIT 4 STRUCTURAL SYSTEMS**

**10 Hrs.**

Principles of load bearing Construction – Components of a load bearing wall &rcc slab roof system-rcc beams, columns and framed structure - simple brick footing - principles of bonding,

**Max. 60 Hours**

**COURSE OUTCOME:**

- CO1** Understand the properties and uses of natural materials like wood and fabrics, synthetic materials like glass and plastics and their appropriate application techniques.
- CO2** Select and specify materials based on the its properties and requirements
- CO3** Understand the components of a building and methods of construction including foundation, plinth, superstructure, floorings, openings, roofs and finishes.
- CO4** Get familiarized with the varied load bearing systems.
- CO5** Able to design interior elements that go with the existing architectural and structural components
- CO6** Have an overview of the various structural systems for architectural and interior spaces.

**TEXT / REFERENCE BOOKS**

1. Parker, Harry, (1957). Materials and Methods of Architectural Construction, John Wiley & Sons, London
2. Rangwala S.C., (1987). Engineering Materials, Charotar Publishing House, Anand.
3. Reid, E. (2013). Understanding Buildings, a Multidisciplinary Approach. United Kingdom: CRC Press.
4. Spencke R.J., Cook D.J., (1983). Building Materials in Developing Countries, John Wiley and Sons.



<b>SDE2302</b>	<b>INTERIOR SERVICES 1</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credits</b>	<b>Total Marks</b>
		<b>2</b>	<b>0</b>	<b>2</b>	<b>3</b>	<b>200</b>

**COURSE OBJECTIVES:**

- To develop an understanding of building services such as water supply, drainage and plumbing system.
- To familiarize them with the advanced service integration system and their applications in building.
- Evolving understanding in students to choose appropriate systems and integrate the same in their design projects.

**UNIT 1 WATER SUPPLY IN BUILDINGS 10 Hrs.**

Standard of portable water and methods of removal of impurities, Consumption order of water for domestic purposes, distribution system, service connection from mains, house-service design, tube well, pumping of water, types of pumps, cisterns for storage

**UNIT 2 BUILDING DRAINAGE 10 Hrs.**

Layout, Principles of drainage, Trap type, materials and functions, Inspection chambers, Design of Septic tanks and soak pits, Ventilation of house drains; Anti-siphonage or vent pipes, One and two pipe systems Sinks, bath tub, water closets, flushing cisterns, urinals, wash basins, bidet, shower panel etc.

**UNIT 3 PLUMBING 20 Hrs.**

Common hand tools used for plumbing and their description and uses, Joints for various types of pipes, Sanitary fitting standards for public conveniences; Different types of pipes and accessories for water supply, controlling fixtures like valves, taps, etc. Fittings and Choice of materials for piping: cast iron, steel, wrought iron, galvanized lead, copper, cement; concrete and asbestos pipes, PVC pipes; Sizes of pipes and taps for house drainage.

**UNIT 4 SERVICES STUDIO 20 Hrs.**

Preparation of plumbing layout of a single storey building & working drawing of various fittings and fixtures of water supply and sanitary installations. Components of Plumbing – sanitary ware -w.c, wash basin, bidet, bathtub, jacuzzi etc Sanitary fittings – taps, mixers, shower units, etc.

**Max. 60 Hours**

**COURSE OUTCOME:**

- CO1** Understand the basic principles of water supply and sanitation
- CO2** Describe the various components in a building drainage system.
- CO3** Attain knowledge about the drainage system for different types of buildings.
- CO4** Classify various sanitary fixtures and its applications.
- CO5** Possess skills and techniques necessary for the selection of various systems and their installation
- CO6** Prepare drainage and plumbing layout for a building.

**TEXT / REFERENCE BOOKS**

1. Water Supply and Sanitary Installations. (2005). India: New Age International (P) Limited.
2. Rangwala, S. C. (2005). Water Supply and Sanitary Engineering. India: Charotar Publishing House.
3. Basak, N. N. (2003). Environmental Engineering. India: Tata McGraw-Hill.



SDE 9301	INTERIOR DESIGN STUDIO III	L	T	P	Credits	Total Marks
		0	0	14	9	400

**COURSE OBJECTIVES:**

- To develop a sensitivity to design the interiors of public spaces incorporating services and the principles of place making.

The primary focus is on Anthropometry, Design methodology, Conceptual exploration and representation, Creativity, Scale/proportion, Documenting space, Graphic design, Concept evolution, Application of design principles and elements, design process, Portfolio development. There will be at least one major and one minor design exercise. The faculty can take up the exercises as per their order of preference. The order should be common across all sections. The faculty may achieve the stated minimum outcomes using appropriate strategies.

The list of suggested topics to be covered as design problems: Doctor's clinic, Kindergarten school, Architect's studio, Small cafeteria, Bank extension counter, Departmental store, local police station, local post office, products used by architects in the studio, products for children in kindergarten etc.

**Max. 210 Hours**

**TEXT / REFERENCE BOOKS**

1. Karlen, M. (2009). Space Planning Basics, 3rd ed. John Wiley & Sons
2. Dechiara J., Panero J., Zelnick M., (2011). "Time Saver Standards for Interior design and Space Planning", McGraw Hill, London
3. Binggeli, C., Ching, F. D. K. (2018). Interior Design Illustrated. United Kingdom: Wiley.
4. Panero J., Zelnick M., (1979). Human Dimension & Interior Space: A source book of Design Reference standards, Watson – Guptill.
5. Mitton M., (2003). Interior Design Visual Presentation: A Guide to Graphics, Models, and Presentation Techniques. John Wiley and Sons.
6. Rengel R, (2002). Shaping Interior Space, Fairchild Books & Visuals.



SDE 9302	MODELMAKINGWORKSHOP	L	T	P	Credits	Total Marks
		1	0	3	3	200

**COURSE OBJECTIVES:**

- Modelmaking and carpentry as techniques for design
- Models as a way of representation and experimentation

**MODULE 1 INTRODUCTION**

**20Hrs**

To introduce the tools, techniques and finishes used in carpentry using different materials (wood, metal, terracotta, paper and board, thermocol, soap/wax, POP, recycled materials). Introducing the techniques of planning, sawing, chiselling & jointing in timber, Selection of timber for different kinds of joints.

**MODULE 2 TOOLS & MACHINERY**

**30 Hrs.**

Introduction to hand tools – classification, nomenclatures and uses. Material working machines types, sizes, parts and their functions and operations and safety precautions and maintenance. Practical techniques- Sawing, Chiselling, Boring, Joining, Widening, Fixing, Fitting. Carving

**MODULE 3 FINISHES**

**10 Hrs.**

Surface & finishing- sanding, staining, varnishing, polishing, etc. materials & methods. Painting surfaces with various types of finishes. Surface finish materials- Putty, Wax, Sawdust, Colour powders, POP, etc; Laminated sheets, OST sheets, Block boards, Sun mica, Veneers, etc.

Exercises to Hand-on Product designs through carpentry, glass painting & other model making techniques. 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.

**Max. 60 Hours**

**TEXT / REFERENCE BOOKS**

1. Haun, L. (1999). Carpentry. United Kingdom: Taunton Press.
2. Taylor, J. D. (1996). Tools of the Trade: The Art and Craft of Carpentry. United States: Chronicle Books.
3. Janssen, (1973). Constructional Drawings & Architectural models, Karl Kramer Verlag Stuttgart.
4. Smith W.H., (1982). The art of making furniture in miniature, E.P.Dutton Inc., New York.



## SEMESTER 4

SDE1401	CULTURAL ANTHROPOLOGY	L	T	P	Credits	Total Marks
		2	0	0	2	100

### COURSE OBJECTIVES:

- To introduce various concepts related to the study of society and culture.
- To develop an understanding of art, craft and design in a variety of contexts with respect to space, function and climate.
- To expose the students to the principles of Vastushastra and Feng shui and its applications in interior design.

### UNIT 1 SOCIETY

6 Hrs.

Meaning and Definition, Characteristics of Society, Types of Society, Factors Bringing Changes in Society, Impact of Modernization on Society and Study of Society in Interior Design

### UNIT 2 CULTURE

8 Hrs.

Meaning and Definition, Characteristics of Culture, Types of Culture in India, Factors Bringing Changes in Culture – Modernization, Urbanization, Technology, Tradition and Rituals of any one State, Art form and Craft form in Indian States, Significance of cultural aspects and traditions.

### UNIT 3 TRADITIONS IN ARTS & CRAFTS

6 Hrs.

Evolution of forms and spaces during various eras and regions influences etc, space, function and climate responsiveness Symbolism, patterns and forms that manifest themselves in the architecture of that place

### UNIT 4 TRADITIONAL THEORIES OF SPACE DESIGN

6 Hrs.

Introduction to Vastushastra , Feng Shui- History, context, principles, applications in interior design

### UNIT 5 CONSTRUCTIVE ASSIGNMENTS

4 Hrs.

Demonstrate comprehensive understanding through accompanying assignments, group discussions, and site visits.

Max. 30 Hours

### COURSE OUTCOME:

- CO1 Understand the characteristics of society and culture.
- CO2 Interpret the impact of modernization on society
- CO3 Have an overview of the different types of societies and cultural forms in India including the related art and crafts.
- CO4 Categorize the various forms and spaces with respect to context.
- CO5 Appraise the traditional theories of space design including Vastushatra and Feng Shui in interior spaces.
- CO6 Apply VastuShatra and Feng Shui principles in their design proposals.

### TEXT / REFERENCE BOOKS

1. Hasnain N., (2011), Indian Anthropology

<b>SDE1402</b>	<b>BUILDING CRAFTS</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credits</b>	<b>Total Marks</b>
		<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>100</b>

**COURSE OBJECTIVES:**

- To understand the definition and scope of Interior-Architecture and Craft & Technology
- To document and disseminate the role of Craft & Technology in Interior-Architecture through state-of-the-art literature; best studies and case studies
- To create awareness and exposure for skill-based knowledge systems
- To establish a link between tradition and continuity
- To develop new paradigms of pedagogy and practice in the field of Interior-Architecture and Craft & Technology

**UNIT 1 DEFINITION AND UNDERSTANDING 6 Hrs.**

Definition and Understanding of Craft, Handicrafts and Building Crafts, Craft & technology- applications and it's relation to Interior Design, Craft Elements and Craft Clusters- An introduction

**UNIT 2 SKILLS AND KNOWLEDGE 4 Hrs.**

Documenting Knowledge and Skills, Traditional Knowledge Systems and skills of the communities, Indigenous materials tools and techniques, Space Making Crafts& Surface Narrative Crafts, Preserving and revitalising the symbols of cultural heritage

**UNIT 3 CRAFT SYSTEMS & CASE STUDIES 8 Hrs.**

Studies related to the Craft Sector, Issues and Challenges, Policies and Reforms, Case Studies various regions in India, Miscellaneous Case Studies of Indigenous building crafts, Continuity and revival

**UNIT 4 CONTEMPORARY CRAFTS 8 Hrs.**

Reimagining crafts in contemporary times, Studio Based Crafts, Challenges for artisans, Craftsman/Designer collaborations- Process-based, product-based, technology-based, management-based, Case Studies of contemporary designers and their work

**UNIT 5 CONSTRUCTIVE ASSIGNMENTS 4 Hrs.**

Demonstrate comprehensive understanding through accompanying assignments, group discussions, and site visits.

**Max. 30 Hours**

**COURSE OUTCOME:**

- CO1** Understand the meaning of 'Craft' and the breadth of its definition and how crafts play a role in Interior Design
- CO2** Understand how Craft plays a role in representing the culture and traditions of our country.
- CO3** Understand common aspects of craft practices, systems and elements
- CO4** Evaluate the various Indian policies for indigenous craft sector
- CO5** Understand the contemporary situation w.r.t Indian building crafts
- CO6** Give design inputs for the benefit of the targeted craft/cottage industries.

**TEXT / REFERENCE BOOKS**

1. Ranjan, M. P., Ranjan, A. (2007). Handmade in India. India: Council of Handicraft Development Corporations.
2. Jain. R, (2018) 'Crafts in Interior Architecture: 1990 onwards', Cept University Press
3. Jaitly, J. (1990). The Craft Traditions of India. India: Lustre Press.
4. Saraf, D. N. (1991). D.N. Saraf in the Journey of Craft Development, 1941-1991: Reminiscences. India: Sampark.
5. Risatti, H. (2009). A Theory of Craft: Function and Aesthetic Expression. United Kingdom: ReadHowYouWant.com, Limited



<b>SDE2401</b>	<b>MATERIALS AND CONSTRUCTION II</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credits</b>	<b>Total Marks</b>
		<b>2</b>	<b>0</b>	<b>2</b>	<b>3</b>	<b>200</b>

**COURSE OBJECTIVES:**

- To introduce the building materials and the construction techniques used for the walls, floors and ceilings.
- To expose the different types of wall panelling systems and false ceilings.
- To give an insight to the various finishes and the applications.

**UNIT 1 WALLS-TYPES OF MASONRY**

**14 Hrs.**

Different types-Stonewalls—random rubble, coursed rubble, square rubble, polygonal rubble & Ashlar etc , Brick masonry-Types of bonds-single & double Flemish bond, header bond, stretcher bond, rattrap bond, ornamental bonding

**UNIT 2 FLOORS**

**14 Hrs.**

Flooring: rammed earth, Natural stones like Shahabad, Tandur, Kota, Kadappa, Marble, Granite, etc., athangudi tiles, red oxide, terracotta tiles (Laying details), brick paving, glazed ceramic tiles, Vitrified tiles - Finishes: pointing, grouting, pavement, mud plastering, PCC.

Floor coverings - softwood, hardwood-resilient flooring-linoleum, asphalt tile, vinyl, rubber, cork tiles- terrazzo , marble & granite- properties, uses & laying. Floor tiles – ceramic glazed, mosaic and cement tiles - properties, specification for barrier free floors Drawings indicating various types.

**UNIT 3 FALSE CEILING & WALLPANELING**

**16 Hrs.**

Construction of various kinds of false ceiling such as thermocol, plaster of paris, gypboard, metal sheets, glass and wood. Construction of domes, vaults, & other special ceilings; Paneling Using wooden planks, laminated plywood, cork sheets, fibre glass wool & fabric for sound insulation and wall paneling for thermal insulation.

**UNIT 4 FINISHES**

**16 Hrs.**

Paints- enamels, distempers, plastic emulsions, cement based paints- properties, uses and applications- painting on different surfaces –defects in painting, clear coatings &strains-varnishes, lacquer, shellac, wax polish & strains-properties,usesandapplications.Specialpurposepaints-bituminous,luminous,fire retardant and resisting paints- properties, uses and applications, low VOC paints

**Max. 60 Hours**

**COURSE OUTCOME:**

- CO1** Gain comprehensive knowledge on various types of masonry walls.
- CO2** Classify and understand the different materials for floor finishes in interior design.
- CO3** Select and specify flooring materials based on its properties and intended use.
- CO4** Understand the construction techniques of false ceiling in interior spaces planning.
- CO5** Design and specify appropriate false ceiling and wall panelling materials for the design context.
- CO6** Comprehend the various types of finishes and the respective maintenance.

**TEXT / REFERENCE BOOKS**

1. Punmia, B. C. (2008). Building Construction. India: Laxmi Publications Pvt Limited.
2. Jeffries, D. (2004). The Flooring Handbook: The Complete Guide to Choosing and Installing Floors. United States: Firefly Books.



<b>SDE2402</b>	<b>INTERIOR SERVICES II</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credits</b>	<b>Total Marks</b>
		<b>2</b>	<b>0</b>	<b>2</b>	<b>3</b>	<b>200</b>

**COURSE OBJECTIVES:**

- To give an insight to basic concepts and various components in air conditioning.
- To introduce the fundamentals of fire safety measure and design principles in the interiors.
- To understand the principles of acoustics and the associated materials.
- To give an overview of electrical wiring systems in interiors.

**UNIT 1 BASIC CONCEPTS AND SYSTEM COMPONENTS IN AIR CONDITIONING 16 Hrs.**

Vapour compression cycle – Compressors – Evaporators –Refrigerant control devices – Electric motors – Air handling units – Cooling towers. Window type and packaged air conditioners–Chilled water plants–Fan coiled systems–Water piping–Cooling load - Air-conditioning systems for different types of buildings – Duct layout etc.

**UNIT 2 FIRE SAFETY AND ELECTRICAL SYSTEMS 18 Hrs.**

Mechanism of fire spread in building and prevention – Fire safety standards – Concepts in fire protection – Firefighting installation and requirements - Heat sensitive detectors –Smoke detectors –Automatic water sprinkler system- Foam systems, Single/Three phase supply– Protective devices in electrical installation – ISI Specifications - Types of wires, Wiring systems and their choice –Planning electrical wiring for building interiors – Main and distribution boards- Typical Electrical layout for interiors.

**UNIT 3 ACOUSTICS AND SOUND INSULATION 16 Hrs.**

Room acoustics - resonance, reverberation, echo, reverberation time, simple exercise using Sabine's formula - Acoustical requirements of different types of building. – Sound absorption, absorption co-efficient and their measurements, Absorbing materials used and their choices, exercises involving reverberation time and absorption co-efficient. Sound insulation materials

**UNIT 4 SERVICES STUDIO 10 Hrs.**

Preparation of air conditioning layouts and electrical systems in a building.

**Max. 60 Hours**

**COURSE OUTCOME:**

- CO1** Classify of the different types of air conditioning system and ability to apply the same.
- CO2** Understand the need and applications of various electrical systems
- CO3** Understand the mechanism of fire safety systems and the respective installation
- CO4** Understand the fundamental principles of acoustics and its importance in architectural design
- CO5** Solve the acoustical design problems in a space by acoustic treatments
- CO6** Exposure to various fixtures and fittings of HVAC, fire protection and acoustical systems

**TEXT / REFERENCE BOOKS**

1. Langley, B. C. (2000). Fundamentals of Air Conditioning Systems. United States: Fairmont Press.
2. Jain, V. K. (2007). Fire Safety in Buildings. India: New Age International (P) Limited.
3. Lord, P., Templeton, D. (2019). Detailing for Acoustics. United Kingdom: Taylor & Francis.



<b>SDE 9401</b>	<b>INTERIOR DESIGN STUDIO IV</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credits</b>	<b>Total Marks</b>
		<b>0</b>	<b>0</b>	<b>14</b>	<b>9</b>	<b>400</b>

**COURSE OBJECTIVES:**

- To incorporate the various forms of thematic space making with traditional art and crafts from various parts of India.
- To create a thematic space making with Art and craft forms of our own culture in India – East, West, North, Central.

**MODULE 1**

Design of living units of various geographical locations and culture by involving historical periods, styles and use of craft in its inherent quality and form – craft and living environment. Response to today's situation of urban society – For a given building create contemporary homes of modern society – needs, realities, value system etc.

**MODULE 2**

Applications of art / craft at public level spaces- lounge (hotel), restaurant of specific ethnic characteristics. Spatial and service standards for star hotels – integration of interior design schemes for rooms, restaurants, bars, health clubs, shopping arcade and other guest areas with the general theme of the hotel. Special ideas for suites and banquet halls – contemporary interior schemes to integrate new concepts in lighting and materials.

**Max. 210 Hours**

**TEXT / REFERENCE BOOKS**

1. Karlen, M. (2009). Space Planning Basics, 3rd ed. John Wiley & Sons
2. Dechiara J., Panero J., Zelnik M., (2011). "Time Saver Standards for Interior design and Space Planning", McGraw Hill, London
3. Binggeli, C., Ching, F. D. K. (2018). Interior Design Illustrated. United Kingdom: Wiley.
4. Julius Panero & Martin Zelnick, Human Dimension & Interior Space : A source book of Design Reference standards, Watson – Guphill, 1979.
5. Mitton, M. (2003). Interior Design Visual Presentation: A Guide to Graphics, Models, and Presentation Techniques. Germany: Wiley.
6. Lin M., (1993). Drawing and Designing with Confidence: A step-by-step guide, Wiley and Sons.
7. Rengel R., (2002). Shaping Interior Space, Fairchild Books & Visuals.
8. Pile. J., (2005). A history of interior design, Laurence King Publishing.
9. Jones R., (2008). Interiors of Empire: Objects, Space and Identity within the Indian Subcontinent, Manchester University Press.



