

COURSE STRUCTURE & SYLLABUS

Bachelor of InteriorDesign

Based on

Choice Based Credit System (CBCS)/Elective Course System



**w.e.f.
Academic Year 2025-2026
(Batch 2025)**

Approved by Academic Council vide dated 26th June 2025

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1. General Information:

The course framework functions as a detailed reference document that outlines the curriculum structure, credit allocation per course, and how instructional hours are distributed across Lectures, Studios, Tutorials, and Practical's. It further specifies the eligibility criteria for admission, graduation requirements, evaluation methodologies, and provides a perspective on the pedagogical philosophy underpinning the programs. This guide is designed to supplement the University's Academic Regulations, collectively forming a comprehensive academic guideline. The outlined course structures have received formal approval from the respective Boards of Studies and the Academic Council of BBD University and conform to the standards set by the UGC.

Interior Design, as a discipline, draws upon four key domains: Designing, Art, and Technology. Within the realm of design, the emphasis on technology varies, as the outcome may ascend beyond functionality to become a compelling work of Art—capable of stirring emotions much like a powerful painting or sculpture. Interior Design must stay responsive to ongoing societal shifts, integrating emerging materials and innovative techniques to tackle challenges such as energy efficiency and environmental impact. As such, the pedagogy of Interior Design must continuously adapt, embracing its identity as the 'Art of the Future' constantly evolving discipline that reimagines its direction over time.

2. Program Outcomes (Graduate Attributes)

Our Academic Program is designed as an effort to provide training needed for launching young students into this challenging and highly creative field. At the same time the Program has to meet the essential criteria of meeting the minimum standards of Education prescribed by UGC. Our curriculum meets the challenges thereby providing enough scope for continuous improvements to make it dynamic for recurring contemporary demands of time.

The Programme Outcomes of B.Id. are mapped with the mission and vision of the school as mentioned below:

Table1:PO-Mission-VisionMappingMatrix

PO No.	PO Statement
PO1	Engineering knowledge: Apply the fundamentals of mathematics, science, and allied subjects to the solution of complex problems.
PO2	Problem analysis: Identify, analyze, design, and develop solutions to design problems of practical importance to society.
PO3	Design/development of solutions: Design an environment to address technological innovations along with socio-cultural, economic, and environmental issues.
PO4	Conduct investigations of complex problems: Use research-based knowledge and methods including design of experiments, analysis, interpretation of data, and synthesis of the information to provide valid conclusions.
PO5	Modern tool usage: Create, select, and apply appropriate techniques and resources to meet international standards to underpin technological development for modelling and complex

	architectural activities with an understanding of the limitations.
PO6	The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
PO7	Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PO8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO9	Individual and teamwork: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO10	Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
PO11	Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, such that one has incremental skills to enhance employability in Architecture and other allied professions.
PO12	Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change.

The alignment presented highlights the coherence between the Bachelor in Interior Design program's outcomes and the broader vision and mission of the University. The curriculum has been thoughtfully designed to impart a balanced mix of artistic sensibility and technical competence, nurturing students' socio-technological awareness through ongoing professional exposure. Our academic goals reflect the institution's unwavering commitment to design excellence—emphasizing not only mastery in form-making but also drawing from a broad tapestry of traditional wisdom and modern innovation.

Teaching and research within the program span a diverse range of fields such as design principles, visual culture, architectural history, building technologies, and industry practices. Students are encouraged to engage with time-honored insights while staying agile to the shifting demands of contemporary life. They are introduced to the intricate processes involved in the conceptualization and realization of built environments, equipping them to be visionary leaders in shaping the urban landscapes of tomorrow. The curriculum incorporates global benchmarks in design education, preparing graduates to pursue versatile career opportunities within the rapidly expanding infrastructure and built environment sectors.

In addition, with the emergence of the Sustainable Development Goals (SDGs), the discipline of interior design now plays an essential role in driving sustainability agendas across international, national, and community levels. In response, the curriculum is closely aligned with current SDG objectives, enabling students to develop spaces that promote health, safety, and ecological responsibility. By embedding this philosophy throughout their education, our graduates are empowered to foster more resilient communities and contribute meaningfully to a sustainable future.

Salient features of the Programme

Some of the innovative initiatives for building Architect as professionals are –

- Good communication skills
- Immense physical stamina
- Excellent memory
- Patience
- Team spirit
- Responsibility
- Accountability
- Creative Thinking Skills
- Observant Attitude
- Certification Programmes
- MOOCs/SWAYAM Courses
- Mentoring Program

Salient features of the program for building designers as professionals include:

- Emphasis on Developing Effective Communication Skills
- Focus on Building Physical Endurance
- Encouragement of Strong Memory Retention
- Cultivation of Patience as a Professional Strength
- Fostering a Strong Sense of Team Spirit
- Instilling a Culture of Responsibility
- Promoting Accountability for Decisions and Actions
- Nurturing Creative Thinking and Innovation
- Cultivating an Observant and Detail-Oriented Mindset

Integration of Programme Outcomes at Global/National/SDG level

The mapping provided underscores the alignment between the Bachelor in interior design program outcomes and the University's vision and mission. The curriculum is meticulously crafted to equip students with the essential blend of creative and technical skills, fostering their social and technological proficiency through continuous engagement with the profession. Our educational objectives mirror the school's dedication to design excellence, emphasizing not only the adept manipulation of form but also drawing inspiration from a rich spectrum of traditional and contemporary knowledge domains.

Instruction and research in the program encompass a wide array of disciplines including design theory, visual studies, history, technology, and professional practice. Students are encouraged to draw upon historical wisdom while adapting to the evolving demands of the modern world. They are introduced to the dynamic realm of designing and constructing buildings and urban spaces, preparing them to become pioneers shaping the future of our cities. Our curriculum integrates global

best practices in architectural education, ensuring our students are well-prepared for diverse career pathways in the burgeoning infrastructure development sector.

Furthermore, with the onset of the new Sustainable Development Goals (SDGs), architecture assumes a pivotal role in advancing these goals on global, national, and local scales. By nurturing this ethos, our students contribute to the creation of healthier communities and sustainable societies in the long run.

3. Eligibility for Admission

1. Passed 10+2 with minimum 45% Aggregate in All.
2. For Lateral entry in II nd year: Candidate having three-year diploma from instituterecognized by centre/state govt in the field of Architecture/Interior design/Interior design & Decoration with 45% aggregate marks

4. Programme Duration

The duration of the course for the degree of **Bachelor of Interior Design (B. Id.)** shall be **Four years** divided into **eight semesters**.

The eight semesters shall further be grouped in two stages viz. Stage-I-Foundation Studies from first to sixth semester and Stage-II-Advanced Studies from seventh to eightsemesters.

Since, it is an industry integrated Programme, the students will be offered internship inindustry in final year to gain practical knowledge.

Normal duration of the degree program	Maximum time allowed for completion of program
4 years	4+1+1*

**Special circumstances a candidate may be granted an extension of one year*

5. Internship

Professional Internship is embedded in the 7th semester in the B.Id course. The objectives for internship is the practical exposure of the students spread across. An internship are gaining first-hand experience by a student besides comprehending the way of working in andesign firm, leading to improving the skill aptitude for a specific job with learning opportunities. The major objective of this program is to expose students to various aspects of design practice and allow them to gain work experience with a practicing interior designer/ interior design. A prime aspect of the internship is induction into actual work situations. During this period, orientation under andesigner would include the process of development of conceptual ideas, presentation skills, involvement in office discussions, client meetings, development of the concepts into working drawings, tendering procedure, site supervision during execution and coordination with the agencies involved in the construction process and to facilitate the understanding of the evolution of an architectural project from design to execution.

Following are the intended objectives of engaging students in internship for employability in accordance with Guidelines for Internship/ Research Internship for Under-Graduate Students by UGC.

- Integration of workshop with workplace: To see the internship in a broader, integrated and holistic manner where the delivery of the classroom- software and technical knowledge assimilated is aligned with outcomes of the architectural firm.
- Understanding of the world of work: To provide undergraduate students with an opportunity to improve their understanding of the experiences, challenges, and opportunities of the real world of work, as well as to set their expectations and behaviour in accordance with the demands, culture, and values of current and emerging jobs.
- Hybrid model learning: To broaden learning opportunities by combining physical and digital modes of learning while working in industry, workplace, blended with a mentor or research expert and as per the need and convenience.
- Exposure in emerging technologies: To provide exposure to emerging technologies/software and how it can support, facilitate, improve and reinforce work processes in the offices. Applying the software skills of AutoCAD, Revit, Photoshop, Sketch-up and BIM in their offices.
- Enhance entrepreneurial capabilities: Understand how organizations / enterprises are formed for sustainable progress so that start-ups and entrepreneurial capabilities are strengthened among students and they are encouraged to be job creators.
- Development of decision-making and teamwork skills: To facilitate the development of problem-solving and decision-making skills, enable teamwork; collaboration culture to promote research, academic and professional developments.
- Enhancing professional competency: The internship should not only focus on employability; there is also a need for professional principles, ethics, values, and integrity which will enable them to gain perspective, practice, develop competency and perform professional tasks in the way that the employment market demands.

6. Programme Structure

Under the Choice based credit system, which is a student/ learner centric system, the courses of study in the Architecture Degree program shall be as Professional Core Courses (PC); Building Science and Applied Engineering (BS& AE); Professional Electives (PE); Open Electives (OE); Professional Ability Enhancement Compulsory Courses (PAECC); Skill Enhancement Courses (SEC).

1. **Professional Core Courses (PC):** A course, which should compulsorily be studied by a candidate as a core requirement is termed as a Core course.
2. **Building Science and Applied Engineering (BS&AE):** A course which informs the Professional core and should compulsorily be studied

3. **Elective Course:** Generally, a course which can be chosen from a pool of courses and are of two types:

- **Professional Elective (PE)** which may be very specific or specialized or advanced or supportive to the discipline/ subject of study or which provides an extended scope
- **Open Elective (OE)** which enables an exposure to some other discipline/subject/domain or nurtures the candidate's proficiency/skill.

Employability Enhancement Courses (EEC) which may be of two kinds:

- **Employability Enhancement Compulsory Courses (EECC)**
- **Skill Enhancement Courses (SEC)**

SEMESTER	Professional Core Courses (PC)	Building Science and Applied Engineering (BS&AE)	Elective Courses		Professional Ability Enhancement Courses (PAEC)		Total Credits
			(i) Professional Electives (PE)	(ii) Open Electives (OE)	(i) Professional Ability Enhancement Compulsory Courses (PAECC)	Skill Enhancement Courses (SEC)	
1st	4	-	-	-	1	1	27
2nd	4	1	-	-	-	-	27
3rd	3	-	1	-	-	1	27
4th	3	-	1	-	-	1	27
5th	4	-	1	-	-	-	27
6th	5	-	1	-	-	-	27
7th	-	-	-	-	-	-	23
8th	1	-	1	-	-	-	25
Total Credits					-		300

7. Rules for Attendance

As per The University Norms.

8. Grading System

The Babu Banarasi Das University (BBDU) Lucknow adopts absolute grading system wherein the marks are converted to grades, and every semester results will be declared with semester grade point average (SGPA) and Cumulative Grade Point Average (CGPA). The CGPA will be calculated every semester, except the first semester. The grading system is with the following letter grades and grade points scale as given below:

Grading of performances

Letter grades and grade points allocations:

Based on the performances, each student shall be awarded a final letter grade at the end of

the semester for each course. The letter grades and their corresponding grade points are given in table

Grade and grade points:

Practical Subjects			
Letter Grade	Grade Point	(Marks (%) (Int. + Ext.)	
O (Outstanding)	10	≥90	
A+(Excellent)	9	≥75 and <90	
A(Very Good)	8	≥60 and <75	
B+(Good)	7	≥55 and <60	
B(Above Average)	6	≥50 and <55	
F(Fail)	0	<50	
AB(Absent)	0		
Theory Subjects			
%Marks Range of Total	Grade	Grade Point	Qualitative Meaning
Outstanding	O	10	≥90
Excellent	A+	9	≥75 and < 90
Very Good	A	8	≥60 and < 75
Good	B+	7	≥55 and < 60
Above Average	B	6	≥50 and < 55
Average	C	5	≥45 and < 50
Pass	P	4	≥40 and < 45
Fail	0	0	<40
Absent	0	0	

- Minimum Pass Marks: End-Semester Theory Examination in each Subject: 30%,
- End-Semester Theory Examination + Sessional in each Subject: 40%,
- Practical/Project Examination including Sessional:50%,
- Seminar, Industrial Training and Educational Tour, Viva Voce etc: 50%,
- Aggregate of an Academic Year (Both Semesters): 50%.

9. Program Overview

SEMESTER-I															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
PC	BID3101	Interior Design History-I	Theory	2	1	0	3	24	8	8	40	60	0	60	100
PC	BID3102	Interior Graphics Skills-I	Theory	1	3	0	4	24	8	8	40	60	0	60	100
PAEC/ SEC	NHSCC1 101	Communicative English	Theory	2	1	0	3	24	8	8	40	60	0	60	100
PC	BID3151	Interior Design Studio-I	Practical	1	4	6	8	0	0	0	50	0	100	100	150
PC	BID3152	Materials & Construction Techniques-I	Theory/ Practical	1	3	0	4	24	8	8	40	60	50	110	150
FC	BID3153	Visual Arts-I	Practical	1	2	0	3	0	0	0	50	0	50	50	100
SEC	BID3154	Critical Thinking	Theory	1	2	0	2	24	0	0	50	0	50	50	100
Total							27	Total							800

SEMESTER-II															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								C T	T A	A T	Total (A)	Theory (T)	Practical / Viva	Total (B)	
PC	BID3201	Interior Design History-II	Theory	2	1	0	3	24	8	8	40	60	0	60	100
PC	BID3202	Interior Graphics Skills-II	Theory	1	3	0	4	24	8	8	40	60	0	60	100
BS&AE	NBSCC 1201	Environment & Ecological Sustainability	Theory	2	1	0	3	24	8	8	40	60	0	60	100
PC	BID3251	Interior Design Studio-II	Practical	1	4	6	8	0	0	0	50	0	100	100	150
PC	BID3252	Materials & Construction Techniques-II	Theory/practical	1	3	0	4	24	8	8	40	60	50	110	150
FC	BID3253	Visual Arts-II	Practical	1	2	0	3	0	0	0	50	0	50	50	100
LAB	BID3254	Computer Applications-I	Practical	1	0	2	2	0	0	0	50	0	50	50	100
Total							27	Total							800

SEMESTER-III																
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation								
				L	T	S/P	C	CIA				ESE			Total (A+B)	
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)		
PC	BID3301	Interior Design History-III	Theory	2	1	0	3	24	8	8	40	60	0	60	100	
FC	BID3302	Interior Services-I	Theory	3	0	0	3	24	8	8	40	60	0	60	100	
PC	BID3351	Interior Design Studio-III	Practical	1	4	6	8	0	0	0	50	0	100	100	150	
PC	BID3352	Materials & Construction Techniques-III	Theory/ Practical	1	3	0	4	24	8	8	40	60	50	110	150	
SEC	BID3353	Furniture Design & Detailing-I	Practical	1	3	0	4	0	0	0	50	0	50	50	100	
LAB	BID3354	Computer Applications -II	Practical	1	0	4	3	0	0	0	50	0	50	50	100	
PE	BID3355	Elective-I	Practical	1	1	0	2	0	0	0	50	0	50	50	100	
Total							27	Total								800

SEMESTER-IV															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
PC	BID3401	Specification & Estimation	Theory	2	1	0	3	24	8	8	40	60	0	60	100
FC	BID3402	Interior Services-II	Theory	3	0	0	3	24	8	8	40	60	0	60	100
PC	BID3451	Interior Design Studio-IV	Practical	1	4	6	8	0	0	0	50	0	100	100	150
PC	BID3452	Materials & Construction Techniques-IV	Theory/Practical	1	3	0	4	24	8	8	40	60	50	110	150
SEC	BID3453	Furniture Design & Detailing-II	Practical	1	3	0	4	0	0	0	50	0	50	100	100
LAB	BID3454	Computer Applications-III	Practical	1	0	4	3	0	0	0	50	0	50	50	100
PE	BID3455	Elective-II	Practical	1	1	0	2	0	0	0	50	0	50	50	100
Total							27	Total							800

SEMESTER-V															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S / P	C	CIA				ESE			Total (A+B)
								CT	T A	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
PC	BID3501	Low-Cost Interior Materials	Theory	1	3	0	4	24	8	8	40	60	0	60	100
FC	BID3502	Interior Services-III	Theory	3	0	0	3	24	8	8	40	60	0	60	100
PC	BID3551	Interior Design Studio-V	Practical	1	4	6	8	0	0	0	50	0	100	100	150
PC	BID3552	Interior Working Drawing - I	Theory/ Practical	1	3	0	4	24	8	8	40	60	50	110	150
PC	BID3553	Contemporary Interiors	Practical	1	2	2	3	0	0	0	50	0	50	50	100
LAB	BID3554	Computer Applications-IV	Practical	1	0	4	3	0	0	0	50	0	50	50	100
PE	BID3555	Interior Elective -III	Practical	1	1	0	2	0	0	0	50	0	50	50	100
Total							27	Total							800

SEMESTER-VI															
Course Category	Subject Code	Subject Name	Theory / Practica l	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								C T	T A	A T	Tota l (A)	Theory (T)	Practical / Viva	Tota l (B)	
PC	BID3601	Lighting & Interiors	Theory	1	1	0	2	24	8	8	40	60	0	60	100
FC	BID3602	Interior Services-IV	Theory	3	0	0	3	24	8	8	40	60	0	60	100
PC	BID3651	Interior Design Studio-VI	Practica l	1	4	6	8	0	0	0	50	0	100	100	150
PC	BID3652	Interior Working Drawing-II	Theory/ Practica l	1	3	0	4	24	8	8	40	60	50	110	150
PC	BID3653	Interior Landscape	Practica l	1	3	0	4	0	0	0	50	0	50	50	100
PC	BID3654	Accessories & Product Designing	Practica l	1	3	0	4	0	0	0	50	0	50	50	100
PE	BID3655	Interior Elective-IV	Practica l	1	1	0	2	0	0	0	50	0	50	50	100
Total							27	Total							800

SEMESTER-VII															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
LAB	BID3751	Internship	Practical	1	22	0	23	0	0	0	320	0	480	480	800
Total							23	Total							800

SEMESTER-VIII															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
FC	BID3801	Interior Professional Practice	Theory	2	0	0	2	24	8	8	40	60	0	60	100
PC	BID3851	Thesis	Practical	4	16	0	20				240		360	360	600
PE	BID3852	Elective-V	Practical	1	2	0	3	0	0	0	50	0	50	50	100
Total							25	Total							800

10. Assessment and Evaluation:

Assessment:

Total assessment of a subject in any semester will be carried out under TWO Components:

1. **Internal Assessment:** This component will be assessed through modes of assessments like Class Assignments, Tutorial, Jury, Seminar, Tests, MCQs, Projects and Viva-Voce. Marks in the internal assessment shall be forwarded by the Dean/Director of the College to the COE at the end of each semester.

2. **External Assessment:**

Theory examination: The examination shall be held in accordance with the syllabus prescribed by the University. The medium of examination is English.

Practical examination: Examination shall be conducted by a committee of Examiners appointed by the School along with an COE in accordance with the syllabus prescribed by the university.

Evaluation:

1. Internal assessment:

Overall assessment will be done based on following rubrics of marks:

a) **QUANTITY:** To evaluate the output based on the problem introduced:

- **Assignments/Intermediate Juries (30%*):** The assignments/intermediate juries (selected as per the subject) will be introduced/conducted to develop the overall understanding of the topics being taught (for theory subjects) and problem solving.
- **Class Tests/ Sessional Tests /Viva (20% *):** In total two sessional tests will be conducted. 75% attendance will be compulsory to appear for sessional tests.

b) **QUALITY:** To evaluate overall skills developed/exhibited throughout the semester by the students:

- **For STUDIO subjects: Ideation (15% *), Process (20%*) and Presentation (15%*).**
- **For THEORY subjects: Understanding (15% *), Application (20%*) and Class performance (15%*).**

2. External assessment (100%*):

The assessment will be done by the evaluation of ESE and viva voce.

** Weightage out of total maximum marks (for the component) prescribed for the subject in the Course Framework.*

- **End-Semester Theory Examination + Sessional in each Subject: 40%,**
- **Practical/Project Examination including Sessional: 50%,**
- **Seminar, Industrial Training and Educational Tour. Viva Voce etc: 50%,**
- **Aggregate of an Academic Year (Both Semesters): 50%.**

Internal and External Reappear will be interrelated i.e., in case of failing in internal assessment for a subject a student will not be allowed to appear for external examination for the said subject. A student should score at-least 50% or more marks in both the components i.e., internal and external separately, in order to clear the subject.

If the student is detained from appearing in the end term examination because of shortage of attendance in the regular semester or is absent in the end term exam, his grade in that subject is 'Ab', till he/she appears again in the end term examination and obtains a new grade. His internal evaluation is carried forward in such cases for calculation of his/her total result and calculation of new grade.

11. Instructions for Paper Setting:

For Sessional Tests:

1. For Practical Subjects like Interior design studio, Visual Arts, etc...

a. To be conducted by the Examination Department of BBD University.

Mode of test to be opted by the Internal Faculty.

Proposed modes of assessments are Class Assignments, Tutorial, Jury, Seminar, handwritten Tests, MCQs, Projects and Viva-Voce.

Mode of Sessional Test shall be forwarded by the Dean/Director of the College to the Examination Department at the end of each semester.

2. For Theory Subjects like Interior Graphics Skill, Interior design history, Critical thinking and Services etc :

a. To be conducted by the Examination Department of BBD University.

Total duration of the exam would be 60 minutes.

Maximum marks will be 30.

Section A (Max. Marks = 05) will have 5 objective type questions of 1 mark each and all questions will be compulsory.

Section B (Max. Marks = 10) to have 3 questions out of which students would attempt any 2 (Max. Marks of each question = 5).

Section C (Max. Marks = 15) to have 3 questions out of which students would attempt any 2 (Max. Marks of each question = 7.5).

3. For Theory/ Practical Subjects like Building Materials and Construction, Working Drawing etc:

For Practical subjects

To be conducted by the Examination Department of BBD University.

- a) Mode of test to be opted by the Internal Faculty.
- b) Proposed modes of assessments are Class Assignments, Tutorial, Jury, Seminar, handwritten Tests, MCQs, Projects and Viva-Voce.
- c) Mode of Sessional Test shall be forwarded by the Dean/Director of the College to the Examination Department at the end of each semester.

For Theory subjects

To be conducted by the Examination Department of BBD University.

- a) Total duration of the exam would be 60 minutes.
- b) Maximum marks will be 30.
- c) Section A (Max. Marks = 05) will have 5 objective type questions of 1 mark each and all questions will be compulsory.
- d) Section B (Max. Marks = 10) to have 3 questions out of which students would attempt any 2 (Max. Marks of each question = 5).
- e) Section C (Max. Marks = 15) to have 3 questions out of which students would attempt any 2 (Max. Marks of each question = 7.5).

For End Term Examinations:

For Interior Design Studio:

To be conducted by the Examination Department of BBD University.

- a) There will be only one component for ESE namely:
 - Viva-voce: To be conducted by Department through External Examiners.

- Maximum marks will be 100 Marks.
- Will consist of viva-voce on portfolio i.e. final submissions of the projects undertaken during the semester for the course. The department will schedule viva-voce (as per the date sheet) carried out through External Examiners.

For Materials And Construction Techniques:

To be conducted by the Examination Department of BBD University.

- There will be two components for ESE namely:
 - Studio Examination: To be conducted by Examination Department of BBD University.
 - Viva-voce: To be conducted by Department through External Examiners.
- For Studio Examination:
 - Total duration of exam will be 3 hrs.
 - Maximum marks will be 60 Marks.
 - Section A (Max. Marks = 8) will have 8 objective type questions of 1 mark each and all questions will be compulsory.
 - Section B (Max. Marks = 12) will have 4 questions out of which students would attempt any 3 (Max. Marks of each question = 4).
 - Section C (Max. Marks = 40) will have 3 questions out of which students would attempt any 2 (Max. Marks of each question = 20).
 - Instructions to Candidates, among others, should also mention:
 - The type of sheets that can be issued.
 - Permitted drawing equipment.
 - Importance of making correct and good quality drawings with correct line-weights, good lettering, etc.
- For Viva-voce:**
 - Will consist of viva-voce on portfolio i.e. final sheets prepared during the semester for the course. The department will schedule viva-voce (as per the date sheet) carried out through External Examiners.
 - Maximum marks will be 50 Marks.

For Interior Graphic skill:

To be conducted by the Examination Department of BBD University.

- Total duration of the exam would be 3 hrs.
- Maximum marks will be 60 Marks.
- Section A (Max. Marks = 8) will have 8 objective type questions of 1 mark each and all questions will be compulsory.
- Section B (Max. Marks = 12) will have 4 questions out of which students would attempt any 3 (Max. Marks of each question = 4).
- Section C (Max. Marks = 40) will have 3 questions out of which students would attempt any 2 (Max. Marks of each question = 20).
- Instructions to Candidates, among others, should also mention:
 - The type of sheets that can be issued.
 - Permitted drawing equipment.
 - Importance of making correct and good quality drawings with correct line-weights, good lettering, etc.

For Visual Arts:

To be conducted by the Examination Department of BBD University.

For Viva-voce:

- Will consist of viva-voce on portfolio i.e. final sheets prepared during the semester for the course. The department will schedule viva-voce (as per the date sheet) carried out through External Examiners.
- Maximum marks will be 50 Marks.

For other Theory Subjects:

To be conducted by the Examination Department of BBD University.

- a) Total duration of the exam would be 3 hrs.
- b) Maximum marks will be 60.
- c) Section A (Max. Marks = 8) will have 8 objective type questions of 1 mark each and all questions will be compulsory.
- d) Section B (Max. Marks = 12) will have 4 questions out of which students would attempt any 3 (Max. Marks of each question = 4).
- e) Section C (Max. Marks = 40) will have 3 questions out of which students would attempt any 2 (Max. Marks of each question = 20).

For other Practical Subjects.

To be conducted by the Examination Department of BBD University.

- a) Will consist of viva-voce on portfolio i.e. work done during the semester. The department will schedule viva-voce (as per the date sheet) carried out through External Examiners.

SCHOOL OF ARCHITECTURE & PLANNING, BBD UNIVERSITY
BACHELLOR OF INTERIOR DESIGN (B.ID)
SCHEME OF TEACHING & SCHEME OF EVALUATION

PC	PROFESSIONAL CORE COURSES	PAEC	PROFESSIONAL ABILITY ENHANCEMENT COMPULSORY COURSES	CIA	CONTINUOUS INTERNAL ASSESSMENT
FC	FOUNDATIONAL COURSES	SEC	SKILL ENHANCEMENT COURSES	CT	CLASS TEST
PE	PROFESSIONAL ELECTIVES	L	LECTURE	TA	TEACHER'S ASSESSMENT
OE	OPEN ELECTIVES	T	TUTORIAL / THEORY	AT	ATTENDANCE
PAEC	PROFESSIONAL ABILITY ENHANCEMENT COURSES	S/P	STUDIO/ PRACTICAL	ESE	END SEMESTER EXAMINATION

L=Lecture= 1C; T=Tutorial=1C; S/P=Studio/Practical=1/2C; C=Credits

SEMESTER-I															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
PC	BID3101	Interior Design History-I	Theory	2	1	0	3	24	8	8	40	60	0	60	100
PC	BID3102	Interior Graphics Skills-I	Theory	1	3	0	4	24	8	8	40	60	0	60	100
PAEC/SEC	NHSCC1101	Communicative English	Theory	2	1	0	3	24	8	8	40	60	0	60	100
PC	BID3151	Interior Design Studio-I	Practical	1	4	6	8	0	0	0	50	0	100	100	150
PC	BID3152	Materials & Construction Techniques-I	Theory/ Practical	1	3	0	4	24	8	8	40	60	50	110	150
FC	BID3153	Visual Arts-I	Practical	1	2	0	3	0	0	0	50	0	50	50	100
SEC	BID3154	Critical Thinking	Theory	1	2	0	2	24	0	0	50	0	50	50	100
Total							27	Total							800

SEMESTER-II															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical / Viva	Total (B)	
PC	BID3201	Interior Design History-II	Theory	2	1	0	3	24	8	8	40	60	0	60	100
PC	BID3202	Interior Graphics Skills- II	Theory	1	3	0	4	24	8	8	40	60	0	60	100
BS&AE	NBSCC 1201	Environment &Ecological Sustainability	Theory	2	1	0	3	24	8	8	40	60	0	60	100
PC	BID3251	Interior Design Studio-II	Practical	1	4	6	8	0	0	0	50	0	100	100	150
PC	BID3252	Materials & Construction Techniques-II	Theory/practical	1	3	0	4	24	8	8	40	60	50	110	150
FC	BID3253	Visual Arts-II	Practical	1	2	0	3	0	0	0	50	0	50	50	100
LAB	BID3254	Computer Applications-I	Practical	1	0	2	2	0	0	0	50	0	50	50	100
				Total			27	Total							800

SEMESTER-III															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
PC	BID3301	Interior Design History-III	Theory	2	1	0	3	24	8	8	40	60	0	60	100
FC	BID3302	Interior Services-I	Theory	3	0	0	3	24	8	8	40	60	0	60	100
PC	BID3351	Interior Design Studio-III	Practical	1	4	6	8	0	0	0	50	0	100	100	150
PC	BID3352	Materials & Construction Techniques-III	Theory/ Practical	1	3	0	4	24	8	8	40	60	50	110	150
SEC	BID3353	Furniture Design & Detailing-I	Practical	1	3	0	4	0	0	0	50	0	50	50	100
LAB	BID3354	Computer Applications-II	Practical	1	0	4	3	0	0	0	50	0	50	50	100
PE	BID3355	Elective-III	Practical	1	1	0	2	0	0	0	50	0	50	50	100
Total							27	Total							800

SEMESTER-IV															
Course Category	SubjectC ode	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							Total (A+B)
				L	T	S/P	C	CIA				ESE			
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
PC	BID3401	Specification & Estimation	Theory	2	1	0	3	24	8	8	40	60	0	60	100
FC	BID3402	Interior Services-II	Theory	3	0	0	3	24	8	8	40	60	0	60	100
PC	BID3451	Interior Design Studio-IV	Practical	1	4	6	8	0	0	0	50	0	100	100	150
PC	BID3452	Materials & Construction Techniques- IV	Theory/ Practical	1	3	0	4	24	8	8	40	60	50	110	150
SEC	BID3453	Furniture Design & Detailing-II	Practical	1	3	0	4	0	0	0	50	0	50	100	100
LAB	BID3454	Computer Applications- III	Practical	1	0	4	3	0	0	0	50	0	50	50	100
PE	BID3455	Elective-IV	Practical	1	1	0	2	0	0	0	50	0	50	50	100
Total							27	Total							800

SEMESTER-V															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical / Viva	Total (B)	
PC	BID3501	Low-Cost Interior Materials	Theory	1	3	0	4	24	8	8	40	60	0	60	100
FC	BID3502	Interior Services-III	Theory	3	0	0	3	24	8	8	40	60	0	60	100
PC	BID3551	Interior Design Studio-V	Practical	1	4	6	8	0	0	0	50	0	100	100	150
PC	BID3552	Interior Working Drawing - I	Theory/ Practical	1	3	0	4	24	8	8	40	60	50	110	150
PC	BID3553	Contemporary Interiors	Practical	1	2	2	3	0	0	0	50	0	50	50	100
LAB	BID3554	Computer Applications-IV	Practical	1	0	4	3	0	0	0	50	0	50	50	100
PE	BID3555	Interior Elective -V	Practical	1	1	0	2	0	0	0	50	0	50	50	100
Total							27	Total							800

SEMESTER-VI															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical / Viva	Total (B)	
PC	BID3601	Lighting & Interiors	Theory	1	1	0	2	24	8	8	40	60	0	60	100
FC	BID3602	Interior Services-IV	Theory	3	0	0	3	24	8	8	40	60	0	60	100
PC	BID3651	Interior Design Studio-VI	Practical	1	4	6	8	0	0	0	50	0	100	100	150
PC	BID3652	Interior Working Drawing-II	Theory/ Practical	1	3	0	4	24	8	8	40	60	50	110	150
PC	BID3653	Interior Landscape	Practical	1	3	0	4	0	0	0	50	0	50	50	100
PC	BID3654	Accessories & Product Designing	Practical	1	3	0	4	0	0	0	50	0	50	50	100
PE	BID3655	Interior Elective-VI	Practical	1	1	0	2	0	0	0	50	0	50	50	100
Total							27	Total							800

SEMESTER-VII															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							Total (A+B)
				L	T	S/P	C	CIA				ESE			
								CT	TA	AT	Total (A)	Theor y (T)	Practical/ Viva	Total (B)	
LAB	BID3751	Internship	Practical	1	22	0	23	0	0	0	320	0	480	480	800
Total							23	Total							800

SEMESTER-VIII															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
FC	BID3801	Interior Professional Practice	Theory	2	0	0	2	24	8	8	40	60	0	60	100
PC	BID3851	Thesis	Practical	4	16	0	20				240		360	360	600
PE	BID3852	Elective-VIII	Practical	1	2	0	3	0	0	0	50	0	50	50	100
Total							25	Total							800

List of Elective Subject			
Elective III			
SEMESTER III	Subject code	Subject name	Theory / practical
	BID3355(1)	Art in Interior Design	Practical
	BID3355(2)	Colour Theory & Application	Practical
	BID3355(3)	MOOC	Practical
Elective IV			
SEMESTER IV	Subject Code	Subject Name	Theory / Practical
	BID3455(1)	Applied Psychology in Design	Practical
	BID3455(2)	Communication Design	Practical
	BID3455(3)	MOOC	Practical
Elective V			
SEMESTER V	Subject Code	Subject Name	Theory / Practical
	BID3555(1)	Art Appreciation	Practical
	BID3555(2)	Product Design	Practical
	BID3555(3)	Set Design	Practical
	BID3555(4)	MOOC	Practical
Elective VI			
SEMESTER VI	Subject Code	Subject Name	Theory / Practical
	BID3655(1)	Vernacular & Low-Cost Interiors	Practical
	BID3655(2)	Textile in Interiors	Practical
	BID3655(3)	Energy Conscious Design	Practical
	BID3655(4)	MOOC	Practical
Elective VIII			
SEMESTER VIII	Subject Code	Subject Name	Theory / Practical
	BID3852(1)	Bamboo in Interiors	Practical
	BID3852(2)	Green & Sustainable Interiors	Practical
	BID3852(3)	Historic Preservation	Practical
	BID3852(4)	MOOC	Practical

SEMESTER-I															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
PC	BID3101	Interior Design History-I	Theory	2	1	0	3	24	8	8	40	60	0	60	100

SUBJECT OBJECTIVE

1. Focus on the developmental aspects of Interior designing as a mode of expression and practice over the time period in different periods of history and civilization.

LEARNING OUTCOME

1. Overview the development of art form and furniture style from ancient India.
2. Emphasis on ancient western interiors
3. Focus on post industrial revolution of major countries.

MODULE	COURSE TOPICS
Module 1	Interiors of Ancient India: The Development of art form and furniture styles in sites from ancient India. Examples from Indus valley civilization, Maurya Dynasty, Gupta Dynasty,
Module 2	Western Interiors: Developments in ancient western interiors till the industrial revolution
Module 3	Industrial revolution: Post industrial revolution in major selected countries of the world with changes in building form and interior designing.

REFERENCE BOOKS

1. Atlas of Western Art History: Artists, Sites and Movements from Ancient
2. Greece to the Modern Age, John Steer and Antony White
3. Interior Design Illustrated, Francis D.K. Ching
4. Responding to Art: Form, Content, & Context, Robert Berrson.
5. Interior Design in the 20th Century, Allen Tate & C. Ray Smith
6. Responding to Art: Form, Content, & Context, Robert Berrson.

REFERENCE E- BOOKS & JOURNALS

1. The Art and Architecture of India: Buddhist, Hindu, Jain
2. The Industrial History of England by H. de B. Gibbins (Project Gutenberg)
3. Interior Design During the Industrial Revolution by Adil Masood Qazi
4. The Art and Architecture of India; History of Indian and Eastern Architecture
5. Interior Design During the Industrial Revolution; The Unbound Prometheus; Hourly History overview

REFERENCE YOUTUBE LINKS

1. <https://www.youtube.com/watch?v=dOL9auSva3I>
2. <https://www.youtube.com/watch?v=ACDmXp20AfY>
3. <https://www.youtube.com/watch?v=Uf2Xz58eXTA>
4. <https://www.youtube.com/watch?v=QBqCjY-l9c4>
5. <https://www.youtube.com/watch?v=5Lr4EfRzFSI>

SEMESTER-I															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
PC	BID3102	Interior Graphics Skills-I	Theory	1	3	0	4	24	8	8	40	60	0	60	100

SUBJECT OBJECTIVE

1. To introduce different drafting techniques to produce 3D drawings of various objects and spaces as well as use of light, shade & shadow. To learn three-dimensional presentation.

LEARNING OUTCOME

1. Understanding about the perspective drawings.
2. Introduction and drawing of shades & shadows, in 2-D and 3-D drawings
3. Understanding of Perspectives and Views

MODULE	COURSE TOPICS
Module 1	Introduction to basic: Introduction and setting up the drawing equipment; Introduction to scale & proportions Concept of line, its types, quality, grade, drawing polygons & angles by using set square. Concept of dimensioning. Architectural Printing Inscribe polygon of given side side by general and special method. Inscribe polygon in a given circles by general and special method.
Module 2	Orthographic projection: Orthographic projections of shapes, solids (prism, Pyramid) & interior Objects, Plan, Elevation & Sections of a room with showing all Furniture layout & interior fixtures.
Module 3	Surface Development: Development of surfaces of solids (prism, Pyramid) & interior objects
Module 4	Measured Drawing: Draw a measuring drawing of space, interior of a residence, office etc.

REFERENCE BOOKS

1. Architecture: Form, Space and Order, Francis D.K. Ching
2. Engineering Drawing, N.D. Bhatt
3. Interior Design Illustrated, Francis D.K. Ching
4. Interior Design, Ahmed Kasu
5. Perspective and Sciography, Shankar Mulik

REFERENCE E- BOOKS & JOURNALS

1. Perspective Drawing by Sarah Haley
2. The Complete Guide to Perspective Drawing: From One-Point to Six-Point by Craig Attebery
3. The Theory and Practice of Perspective by George A. Storey

REFERENCE YOUTUBE LINKS

1. <https://www.youtube.com/watch?v=NuYjHiBboXc>
2. <https://www.youtube.com/watch?v=kynEpDxXd6U>
3. <https://www.youtube.com/watch?v=uRv9rWsCu6w>
4. https://www.youtube.com/watch?v=_TSXF9kkuEw
5. <https://www.youtube.com/watch?v=vkECt-gauNM>
6. <https://www.youtube.com/watch?v=4WNkXJZgdD4>

SEMESTER-I															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
FC	BID3153	Visual Arts-I	Practical	1	2	0	3	0	0	0	50	0	50	50	100

SUBJECT OBJECTIVE

1. To encourage the students to develop visual thinking, art skill and perception of the fundamentals of visual arts, design.

LEARNING OUTCOME

1. Introducing philosophy of arts and its appreciation.
2. Familiarize the students with the elements and principles of design and composition.
3. Training of students for freehand skill and object sketching.

MODULE	COURSE TOPICS
Module 1	Sketching and Drawing Skills: Free hand sketching – daily life – outdoor indoor views through different drawing tools and materials.
Module 2	Object Observation: Still life and memory drawing – object observation and replication on different media. Thereby enhancing their visualization ability.
Module 3	Rendering Techniques: Shading and rendering with different materials. Like pen and ink, water Colour, dry pastel, charcoal, etc.
Module 4	Compositional Value: Basic Rules of composition through different types of exercises.

REFERENCE BOOKS

1. The Artist's Handbook of Materials and Techniques by Ralph Mayer Published by Viki Press
2. Freehand Sketching – Rediscovering the Act of Sketching by Prof. Uday A. Athavankar (IIT Bombay).
3. Basic Freehand Drawing by Florian Afflerbech Published by [Birkhäuser](#)

REFERENCE E- BOOKS & JOURNALS

1. Freehand Sketching Tricks and Tips Drawn from Art by Helen Birch
2. Observational Sketching: Hone Your Artistic Skills by Mariko Higaki
3. The Fundamentals of Drawing Still Life by Barrington Barber
4. Elements of Composition – The Complete Guide

REFERENCE YOUTUBE LINKS**SUBJECT OBJECTIVE**

1. https://www.youtube.com/watch?v=asaV3jpEt_g
2. <https://www.youtube.com/watch?v=oAPXep8wPts>
3. <https://www.youtube.com/watch?v=DaxL4gYwUrU>
4. <https://www.youtube.com/watch?v=ToekbxhK-z0>
5. <https://www.youtube.com/watch?v=Yel6Wqn4I78>
6. <https://www.youtube.com/watch?v=X2dwgNDEmVM>
7. <https://www.youtube.com/watch?v=G5ltlgaytLM>

SEMESTER-I															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
PC	BID3151	Interior Design Studio-I	Practical	1	4	6	8	0	0	0	50	0	100	100	150

SUBJECT OBJECTIVE

1. Creating general awareness about the general emerging trends in interior design and apprising the students about the role and complexity in interior design with in context to the built environment with special reference to interiors.

LEARNING OUTCOME

1. Introduction and organization of use of form and space and elements, principles of design.
2. Understanding of relationship between architectural and interior spaces.
3. Analyze the emerging trends professional interior designers.

MODULE	COURSE TOPICS
Module 1	Introduction to Interiors: Introduction to elements and principles of Interior design, Space Organizations, its use with examples
Module 2	Elements & Principles of design: Practice making 2-dimensional compositions on paper using different mediums and physical models using different materials. Application of elements/principles of visual composition
Module 3	Model Material: Making models out of clay, paper, cardboard, wood, etc.; Showing 2d and 3d-elements and principles of design
Module 4	Space & Interior Design: Understanding interior aesthetics, materials, texture, The role of Colour & Light in interior design.
Module 5	Anthropometric Studies: Study of Human dimensions anthropometry in various postures (in applied form), their relation to everyday utilities like the table, chair, bed, sink etc. To make measured drawing of any residential space like bedroom, drawing room, kitchen, study room, living room etc. With anthropometrical reference.

REFERENCE BOOKS

1. Time Saver Standards for Interior Design, Joseph Chiara
2. Neuferts Architects Data, Ernst Neufert
3. Architecture: Form, Space and Order, Francis D.K. Ching
4. Drawing for Interior Design, Drew Plunkett
5. Interior design, Ahmed Kasu

REFERENCE E- BOOKS & JOURNALS

1. Elements of Composition: The Complete Guide (StudioBinder PDF)
2. Principles of Two-Dimensional Design (Wucius Wong)
3. Indian Anthropometric Dimensions for Ergonomic Design Practice (Debkumar Chakrabarti)
4. Anthropometry for Interior Design – PDF guide (Pradeep Naik, Scribd)
5. Anthropometry in Interior Design (ResearchGate, ~328 pp PDF)

REFERENCE YOUTUBE LINKS

1. <https://www.youtube.com/watch?v=LEZDAuO8T9c>
2. <https://www.youtube.com/watch?v=MCFhn7szorA>
3. <https://www.youtube.com/watch?v=kxbI7ate8LY>
4. https://www.youtube.com/watch?v=twSGGyc0G_E
5. <https://www.youtube.com/watch?v=8QEPVE5-M8c>

SEMESTER-I															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
PC	BID3152	Materials & Construction Techniques-I	Theory/ Practical	1	3	0	4	24	8	8	40	60	50	110	150

SUBJECT OBJECTIVE

- To help the students to understand the architectural properties of traditional and modern buildings

LEARNING OUTCOME

- Familiarizing building elements & functions.
- Familiarizing students with various tools/equipment used in building construction, the concept of load transfer in framed structures.
- Familiarizing the students with the Vernacular Building materials, purpose of Lintels and its importance.

MODULE	COURSE TOPICS
Module 1	Construction Technology: Introduction to elements of building, from foundation to roof; Tools/equipment commonly used in Interior construction like- Measuring, Cutting, Fastening, Drilling and Boring, Finishing, Lifting and Handling, Power, Safety and Cleaning.
Module 2	Vernacular Building Material: Mud, including stabilized earth, clay and clay products, lime, timber, and bamboo: their classification, material properties, and construction techniques with a focus on their aesthetic, functional, and sustainable applications in interior spaces; including an analysis of common defects, decay resistance, and methods for preservation in interior design contexts. Stone and its masonry techniques: classification, material properties, and methods of construction with emphasis on their aesthetic and structural applications in interior space division, accent walls, flooring, and architectural detailing, defects and preservations.
Module 3	Modern Building Materials: Bricks- Brick walls for interior division of spaces and other uses (half brick and one brick thickness). Fly ash bricks, Light weight concrete blocks, hollow blocks, aerated concrete blocks. Sand, Cement, Mortar, P.C.C., R.C.C. Their properties and uses.
Module 4	Building Fenestration: Openings: Doors, windows, ventilators with focus on different modes of operation and their jamb linings, material and positioning. Types of Arches based on centers and materials. Lintels and its types and purpose, Structural Glazing.

REFERENCE BOOKS

- Building Construction, W.B. McKay, Vols. 1-4
- Building Construction Illustrated, Francis D.K. Ching
- Building Construction and Materials, M.V. Naik
- Construction of Buildings, Richard Barry, Vols. 1-5
- Construction Technology, Chudley, Vols. 1-6
- Elementary Building Construction, Mitchell

REFERENCE E- BOOKS & JOURNALS

1. Exploring Low-Carbon Design and Construction Techniques (Climate journal, 2023) — examines vernacular, low-carbon materials like mud, bamboo, earth [mdpi.com+1corbu.in+1](#).
2. Eco-efficient Masonry Bricks and Blocks – free PDF detailing design, properties, durability (covers modern brick/blocks) [scribd.com](#).
3. <https://www.slideshare.net/search/slideshow?lang=en&q=construction+technology>
4. <https://www.slideshare.net/search/slideshow?lang=en&q=traditional+building+materials>
5. Exploring Low-Carbon Design... – covers adobe, rammed earth, bamboo, straw bales [mdpi.com](#).

REFERENCE YOUTUBE LINKS

1. <https://www.youtube.com/watch?v=Y0Y8zuETHOQ>
2. <https://www.youtube.com/watch?v=jshMp7OaLbg>
3. <https://www.youtube.com/watch?v=7hQ6Lyufc1k>
4. <https://www.youtube.com/watch?v=QZGoVV1 fdQ>
5. <https://www.youtube.com/watch?v=inHdSAF8LEg>
6. <https://www.youtube.com/watch?v=ijO2pgEC8FA>
7. https://www.youtube.com/watch?v=cAirw1K_Yt4

SUBJECT OBJECTIVE

SEMESTER-I															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
SEC	BID3154	Critical Thinking	Theory	1	2	0	2	24	0	0	50	0	50	50	100

1. Providing students with the ability to gain about users to define and re-frame problems, and to generate solutions or alternative approaches towards design and innovation.

LEARNING OUTCOME

1. Developing deep insights about design thinking
2. Understand about the basic foundation of design thinking & its thinking process.
3. Familiarize about the tools & Techniques.

MODULE	COURSE TOPICS
Module 1	Empathize and Define: Introduction to Design Thinking and Design Process Understanding the principles and foundations of design thinking, Exploring the design process and its stages, Overview of the importance of user-centered design, Introduction to design research methods. Empathize and Define Conducting user research: interviews, observations, and surveys, Analyzing research findings and identifying user needs. Creating user personas and empathy maps, Defining design challenges and problem statements.
Module 2	Design Thinking Process & Ideation: Techniques for generating creative ideas: brainstorming, mind mapping, and sketching. Using design thinking tools like the How Might We technique. Collaborative ideation sessions and group dynamics. Prioritizing ideas and selecting the most promising
Module 3	Tools & Techniques: Introduction to prototyping tools and techniques. Building low-fidelity prototypes: paper prototypes, wireframes, and storyboards. Iterative prototyping and rapid experimentation, Testing and gathering feedback on prototypes.
Module 4	Presentation & Reflection: Analyzing user feedback and observations. Iterating and refining designs based on test results Incorporating user feedback into the design process. Creating compelling design presentations, Effective communication of design ideas and solutions Reflecting on the design process and identifying areas for improvement. Reviewing the overall design journey and project outcomes..

REFERENCE BOOKS

1. Liedtka, Jeanne, and Tim Ogilvie. Designing for growth; Columbia University Press, 2011
2. Liedtka, Jeanne, Solving problems with design thinking; Columbia University Press, 2013.
3. John Heskett, Design: A Very Short Introduction, Oxford University Press, 2005.
4. Mitchell, C. Thomas. Redefining designing: From form to experience. New York: Van Nostrand Reinhold, 1993.
5. Casper, Steven, Eds. Innovation and Institutions; Edward Elgar Publishing, 2005.
6. De Bono, Edward, Serious Creativity; Harper Collins publishers, 1992.

REFERENCE E- BOOKS & JOURNALS

1. Design Thinking Course Book (Sanidhya Garg, FlipHTML5)
2. Applied Imagination (Alex F. Osborn)
3. Design Thinking by Teun den Dekker
4. Design Thinking: Understanding How Designers Think and Work by Nigel Cross
5. Design Thinking by Michael Luchs (Wiley)

REFERENCE YOUTUBE LINKS

1. [Design Thinking, design thinking process, design thinking examples, design thinking aktu notes, mba](#)
2. [What is Design Thinking? | Everything About Design Thinking | Real Life Example](#)
3. <https://www.youtube.com/shorts/4X4p2fGHrC0>
4. [The Design Thinking Process - YouTube](#)
5. [5 Stages of Design Thinking Process | Stanford Model हिंदी में #shortsfeed #ytshorts @Civil101](#)

SEMESTER-II															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
PC	BID3201	Interior Design History-II	Theory	2	1	0	3	24	8	8	40	60	0	60	100

SUBJECT OBJECTIVE

1. The objective of the course is to introduce the students to the changes that occurred in the past.

LEARNING OUTCOME

1. Understanding of gradual change from past to modern period.
2. Emphasis on new styles in interiors of new styles of modern century.
3. Understanding of the modern movement.

MODULE	COURSE TOPICS
Module-1	Mid 19th Century: A change of taste: Victorian and Tuscan styles. Period – Mid 19th Century
Module-2	Late 19th century: The search for a new style: European and American. Period – Late 19th Century.
Module-3	Early 20th century: The Modern Movement. Period – Early 20th Century.

REFERENCE BOOKS

1. Atlas of Western Art History: Artists, Sites and Movements from Ancient Greece to the Modern Age, John Steer and Antony White
2. Interior Design Illustrated, Francis D.K. Ching
3. Indian Interior, Angelika Taschen
4. Interior Design in the 20th Century, Allen Tate & C. Ray Smith

REFERENCE E- BOOKS & JOURNALS

1. Understanding theory and practice __ Kjetil Fallam
2. Art through the Ages __ Helen Gardner (PDF)

REFERENCE YOUTUBE LINKS

1. [Interior design history victorian & tuscan styles –](#)
2. <https://youtu.be/F1BKMFMMA4I>
3. https://youtu.be/onkwu_xp5rA
4. <https://youtu.be/JMJnF53ovpk>
5. <https://youtu.be/OTIqe4vCt-M>

SEMESTER-II															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
PC	BID3202	Interior Graphics Skills-I	Theory	1	3	0	4	24	8	8	40	60	0	60	100

SUBJECT OBJECTIVE

1. To introduce different drafting techniques to produce 3D drawings of various objects and spaces as well as use of light, shade & shadow. To learn three dimensional presentations.

LEARNING OUTCOME

1. Understanding about the perspective drawings.
2. Introduction and drawing of shades & shadows, in 2-D and 3-D drawings
3. Understanding of Perspectives and Views

MODULE	COURSE TOPICS
Module 1	Views: Isometric, Axonometric & Oblique Views of plane, solids (Prism, Pyramid) & given interior objects.
Module 2	One Point & Two Point perspective: Introduction and drawing of one point & two point perspective of solids (Prism, Pyramid) & given interior objects.
Module 3	Perspective by measuring point method: Introduction and drawing of One- & two-point perspective by measuring point method of interior & rendering it in different mediums.
Module 4	Shades & Shadows: Introduction and drawing of sciography in floor plan & elevation of interior walls.

REFERENCE BOOKS

1. Architecture: Form, Space and Order, Francis D.K. Ching
2. Engineering Drawing, N.D. Bhatt
3. Interior Design Illustrated, Francis D.K. Ching
4. Interior Design, Ahmed Kasu

REFERENCE E- BOOKS & JOURNALS

1. Perspective Drawing by Sarah Haley
2. The Complete Guide to Perspective Drawing: From One-Point to Six-Point by Craig Attebery
3. The Theory and Practice of Perspective by George A. Storey

REFERENCE YOUTUBE LINKS

1. <https://www.youtube.com/watch?v=NuYjHiBboXc>
2. <https://www.youtube.com/watch?v=kynEpDxXd6U>
3. <https://www.youtube.com/watch?v=uRv9rWsCu6w>
4. <https://www.youtube.com/watch?v=TSXF9kkuEw>
5. <https://www.youtube.com/watch?v=vkECT-gauNM>

SEMESTER-II															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
PC	BID3251	Interior Design Studio-II	Practical	1	4	6	8	0	0	0	50	0	100	100	150

SUBJECT OBJECTIVE

1. Familiarize the students with designing process, aspects & constraints to be considered while designing of interior projects especially of residential type that would include spatial, functional, material, & visual experience aspects

LEARNING OUTCOME

1. Understanding the meaning & scope of residential interior design.
2. Analyzing the site and drawing inferences for use at the designing stage
3. Presentation of design with the help of given drawing requirements, format and model
4. Emphasize upon conceptualizing a design solution based on studies and analyses

MODULE	COURSE TOPICS
Module 1	Introduction to residential Interior design: Design of Anthropometrics Cell with minimum space requirements of single unit for a single person and study the interior spaces by making 3-D views (axonometric and isometric). It shall include areas like living area, sleeping area, washroom, cooking area with furniture layout in 2-D drawings including elevations covering an area of 25-50 sqm. Using various principles of design, textures and color schemes.
Module 2	Site Study & Analysis: Introduction to design problem of Individual Residence space with 150-200sqmt with the methodology to proceed with the concept, Case studies and data collection through primary and secondary sources, Formulation of concept with client's requirements. Introducing various design aspects like: space configuration, interior circulation, the basic structural requirements, finishes, furniture layout, basic services, and aesthetics.
Module 3	Conceptualizing of design: Conceptualizing a design solution based on the above studies and analyses; Primarily ideas to be expressed with freehand drawings / rough sketches initially and then proper scaled drawings are to be made.
Module 4	Presentation of Design: Presentation of design with the help of given drawing requirements in form of Interior Floor plans, Sections, interior views etc.
Module 5	Presentation of Design: Final presentation drawing with views and model.

REFERENCE BOOKS

1. Time Saver Standards for Interior Design, Joseph Chiara
2. Neuferts Architects Data, Ernst Neufert
3. Architecture: Form, Space and Order, Francis D.K. Ching
4. Drawing for Interior Design, Drew Plunkett
5. Interior design, Ahmed Kasu

REFERENCE E- BOOKS & JOURNALS

1. Interior Design Handbook of Professional Practice (McGraw-Hill)
2. A practical guide on applying building codes, systems, and professional protocols in residential projects.
3. Residential Planning and Design
4. A PDF/textbook offering a full process overview—from concept through execution for residential interiors.

REFERENCE YOUTUBE LINKS

1. <https://www.youtube.com/@MimiEstelle>
2. <https://www.youtube.com/@dantierandbalogh>
3. <https://www.youtube.com/@caddcomlab>
4. <https://www.youtube.com/@designinspiration3837>
5. <https://www.youtube.com/@vincentryan309>

SEMESTER-II															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
PC	BID3252	Materials & Construction Techniques-II	Theory/ practical	1	3	0	4	24	8	8	40	60	50	110	150

SUBJECT OBJECTIVE

1. To introduce the various materials used for floor, door, window, wall and ceiling finishes, sound and heat insulating materials, etc.

LEARNING OUTCOME

1. Application of various materials used for floors ,wall & ceiling
2. Understanding of making of door and windows in different materials.
3. Familiarizing with furniture – especially built-in furniture.
4. Understanding the joinery details of doors and windows; Learning about fastenings and fixtures used in doors and windows

MODULE	COURSE TOPICS
Module 1	Material for flooring (Interior Floor Finishes): Study of flooring materials– both fixed and movable/flexible (Hardwood Flooring, Tile Flooring, Vinyl Flooring, Carpet Flooring, Concrete Flooring, Epoxy Flooring, Wood-Laminate Flooring, Cork Flooring, Carpet Tiles (Modular Carpet), Rubber Flooring, Interlocking Floor Tiles, Vinyl Rolls and Planks, Faux Grass); Their advantages, disadvantages, application and fixing methods. Importance of Functionality and Aesthetics in Flooring Choices, Selection criteria.
Module 2	Material for wall (Interior wall finishes): Wet and Dry wall cladding in different materials wall claddings and finishes, their advantages, disadvantages, uses and application methods. Wall paneling in different materials.
Module 3	Ceilings: Study of different types of ceilings (fixed & suspended etc.), materials used for different types of ceilings, including heat and sound insulating materials
Module 4	Commercial forms of wood: Wood, Plywood, block boards, particle board, medium density fiber etc, their properties, process of manufacture, tools and technology of its application and quality assessment, finishes to reconstituted wood, - lamination, polishing etc
Module 5	Internal Finishes: Protective coating paints. Types of paints, Composition, functions, preparation and application method, painting on different surfaces, defects in painting etc. Varnishes (Oil and spirit), Various types and methods of application.

REFERENCE BOOKS

1. Building Construction, W.B. McKay, Vols. 1-4
2. Building Construction Illustrated, Francis D.K. Ching
3. Building Construction and Materials, M.V. Naik
4. Construction of Buildings, Richard Barry, Vols. 1-5
5. Construction Technology, Chudley, Vols. 1-6

REFERENCE E- BOOKS & JOURNALS

1. Floor and Wall Finishes – Hospitality Kitchen Design (Architect's Pocket Book)
2. A Study on Interior Flooring Materials for Safe Elderly Nursing Homes
3. Wood Handbook: Wood as an Engineering Material (USDA Forest Products Lab)
4. Properties of Wood & Structural Wood Products
5. Interior Design Handbook of Professional Practice (McGraw-Hill)

REFERENCE YOUTUBE LINKS

1. <https://www.youtube.com/watch?v=sA5Su4CD0Gk>
2. <https://youtu.be/cMH7v5S-8cM?si=Yr38ynGQKHPZniKN>
3. <https://youtu.be/d3vELOKedxw>
4. <https://www.youtube.com/watch?v=KLCU74oV37Y>
5. <https://youtu.be/MkmKay396Z4>
6. <https://youtu.be/HHpYAP2KoYs>

Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
FC	BID3253	Visual Arts-II	Practical	1	2	0	3	0	0	0	50	0	50	50	100

SUBJECT OBJECTIVE

1. Encouraging students to develop visual art skills and perception by fundamental of all arts and craftwork.
2. Integrating and translating the senses & feeling into physical form following functionality.

LEARNING OUTCOME

1. To analyse art forms and interior space with reference to visual experiences, elements & principles of design.
2. To Introduce hierarchy of colour, color wheel etc.
3. To generate aptitude Development of students.

MODULE	COURSE TOPICS
Module 1	Advanced Rendering: Different types of sketching, advanced Rendering Techniques with respect to interior and exterior views
Module 2	Color Theories & Texture: Introduction to hierarchy of color, color wheel, hues , tints, shades and Colour models. Developing different textures for various types of spaces in interiors.
Module 3	Design skills: Introduction to design composition, application of elements and principles of design through 2-D and 3-D compositions; Understanding shapes, forms, solids and voids.
Module 4	Creative development: Aptitude development and Visualization exercises by skill development exercises.

REFERENCE BOOKS

1. Sketching and Drawing - A Personal View - Ravi Paranjape
2. Hand-drawn Perspectives and Sketches: Architectural Rendering edited by Sarbjit Bahga
3. The Artist's Handbook of Materials and Techniques by Ralph Mayer Published by Viking Press
4. Freehand Sketching – Rediscovering the Act of Sketching by Prof. Uday A. Athavankar (IIT Bombay)

REFERENCE E- BOOKS & JOURNALS

1. Freehand Sketching Tricks and Tips Drawn from Art by Helen Birch
2. Observational Sketching: Hone Your Artistic Skills by Mariko Higaki
3. Elements of Composition – The Complete Guide
4. Colour Theory by Domestika.

REFERENCE YOUTUBE LINKS

1. <https://www.youtube.com/watch?v=MQcCV2bd3PQ>
2. <https://www.youtube.com/watch?v=Yel6Wqn4I78>
3. <https://www.youtube.com/watch?v=X2dwgNDEmVM>
4. <https://www.youtube.com/watch?v=NWN4yFnUyxM>

SEMESTER-II					
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching	Scheme of Evaluation

				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
LAB	BID3254	Computer Applications-I	Practical	1	0	2	2	0	0	0	50	0	50	50	100

SUBJECT OBJECTIVE

1. To Impart skills of Computer Aided Design & Simulation in decision making in Architectural design.
2. To impart skills of presentation technique using computer as a tool

LEARNING OUTCOME

1. The students will Understand basic of Ms. Office.
2. The students will Understand CAD as a basic tool for Architectural Design.

MODULE	COURSE TOPICS
Module-1	Introduction to Ms. Office: Introduction to fundamentals of computer systems: hardware, devices, operating systems, application software etc in interior practice, understanding and application of like MS Office, Word, Excel, Power point).
Module-2	Practical on MS Office: Exercises on MS Office and its detailed components with Reports.
Module-3	Introduction to Basic Auto Cad 2D Linework: Introduction to commands under various menu, task and tool bars and their application to draw computer aided drawing and saving soft copy file of objects given, with use of appropriate input device. Detailed Report on commands.
Module-4	Practical on Auto Cad 2D Linework: Hand on exercises on Auto Cad 2D small scale spaces linework etc.

REFERENCE BOOKS

1. Mastering AutoCAD 2010 and AutoCAD LT 2010”, George Omura, Wiley, 2009.
2. Mastering AutoCAD 2017 and AutoCAD LT 2017, [George Omura](#) & [Brian C. Benton](#)
3. 100 CAD Exercises - Learn by Practicing!: Learn to design 2D and 3D Models by Practicing with these [Artes Jason](#).

REFERENCE E-BOOKS & JOURNALS

1. Microsoft Office 365: In Practice" by Randy Nordell
2. Microsoft Office 365 for Dummies" by Rosemarie Withee
3. <https://damassets.autodesk.net/content/dam/autodesk/www/shortcuts/autocad/AutoCAD-Shortcuts-Guide-Autodesk.pdf>
4. <https://www.amazon.in/Exploring-Microsoft-Office-Illustrated-Practical-ebook/dp/B08HR6G2D5?utm>
5. **AutoCAD 2022 Instructor"** by **James Leach & Shawna Lockhart**
– Suitable for self-study and includes both theory and practical exercises.

REFERENCE YOUTUBE LINKS

1. <https://www.youtube.com/watch?v=gTEemDI04Zw>
2. <https://www.youtube.com/watch?v=2MCmn2L50o&t=1196s>
3. <https://www.youtube.com/watch?v=rtkyNGEQXD4>
4. <https://www.youtube.com/watch?v=EFIVQTyKpco.Full>
5. <https://www.autodesk.com/campaigns/fusion-360/try-free>

SEMESTER-III															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
PC	BID3301	Interior Design History-III	Theory	2	1	0	3	24	8	8	40	60	0	60	100

SUBJECT OBJECTIVE

1. To introduce the students to the changes that occurred in the past and familiarize them with the different cultures, societies & their style of living, which affected the internal part of their buildings, over different periods.

LEARNING OUTCOME

1. Get students learned about the different cultures that occurred in the past
2. Effect of social and cultural life styles of living to the internal part of the building
3. Understanding the work & Philosophies of great Masters.

MODULE	COURSE TOPICS
Module 1	Gothic, Renaissance, Baroque period: Basic overview of Interior Layouts, Interior design elements like buttresses, rose window, gargobes, flamboyant, mosaic patterns, stained glass
Module 2	Neoclassical movement : Art & Craft movement, Modernism and post modernism
Module 3	High Tech Design: Study of characteristic features of Shabby Chic, Retro, Modern, De Constructivism, Minimalism, Contemporary & other Styles/Movements in interior design.
Module 4	Interior Designers: Study the work & philosophies of the Great Masters of interior design across the globe and in India.

REFERENCE BOOKS

1. Atlas of Western Art History: Artists, Sites and Movements from Ancient Greece to the Modern Age, John Steer and Antony White
2. Interior Design Illustrated, Francis D.K. Ching
3. Interior design, Ahmed Kasu

REFERENCE E- BOOKS & JOURNALS

1. Design: Gothic and Renaissance by T. Roger Smith
2. Renaissance and Baroque by Heinrich Wölfflin
3. Neoclassical Art in Europe" (2025, PDF via ResearchGate): A fresh academic overview of 18th–19th c. painting, sculpture, design, and their links to classical antiquity.
4. Modernism in Art, Design and Design" by Christopher Crouch (Bloomsbury, 1998, PDF e-book)

REFERENCE YOUTUBE LINKS

1. <https://www.youtube.com/watch?v=NTxtTIIjWCY>
2. <https://www.youtube.com/watch?v=6lfM0z9cV4k>
3. <https://www.youtube.com/watch?v=6LU354-ZAfY>
4. <https://www.youtube.com/watch?v=PSSjcw61eis>

SEMESTER-III														
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation						
				L	T	S/P	C	CIA				ESE		
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)
FC	BID3302	Interior Services-I	Theory	3	0	0	3	24	8	8	40	60	0	60
Total (A+B)														100

COURSE OBJECTIVE

1. To enable the students to understand the fundamentals of services in interiors and apply the different plumbing and sanitary fittings and fixtures in drawings.

LEARNING OUTCOMES

1. Understand the fundamentals of services in interior design
2. Study various methods and materials for plumbing
3. Preparation of Water supply and sanitary layout

MODULE	COURSE TOPICS
Module 1	Introduction & Terminologies Introduction to Water supply and Sanitary services, terminologies used in water supply and sanitary services. Sources of water; impurities, requirements of water supply for different building types- storage, distribution.
Module 2	Sanitary services and Fixtures & Rain water disposal Supply of hot and cold water to a residential building and its distribution – Fittings and fixtures used in system, calculating water requirements and designing storage tanks.
Module 3	Space & Interior Design Elements and principles of design related to aesthetics Functional aspects of interior spaces. Understanding interior aesthetics, materials, texture, Colour & light in interior design.
Module 4	Layout, preparing internal piping lay-out for toilets, kitchen utility areas. Preparing external piping layouts for water supply and drainage system

REFERENCE E- BOOKS & JOURNALS

1. Water Supply Layouts and Sanitation, Shah
2. Interior design, Ahmed Kasu
3. N.B.C India
4. Building Construction and material, B.C Punamia
5. S.C Rangwala ,"Water Supply and sanitary Engineering";

REFERENCE YOUTUBE LINKS

1. <https://youtu.be/by30mw6U-JQ>
2. <https://youtu.be/dpJN7FsuikA>
3. <https://youtu.be/6JEn459RmLg>

4. <https://youtu.be/ebwr1FYUko4>

SEMESTER-III															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
PC	BID3351	Interior Design Studio-III	Practical	1	4	6	8	0	0	0	50	0	100	100	150

SUBJECT OBJECTIVE

1. Understand the basics of designing for Retail interiors including Universal design for disabled people.

LEARNING OUTCOME

1. Concentrates on larger scale spaces with an emphasis on planning commercial spaces.
2. Develop visually literate students who are proficient at analytical thinking, conceptualization and the problem-inquiry, solution cycle.
3. Examine the connection between abstract design principles and the physical and visual
4. environments.

MODULE	COURSE TOPICS
Module 1	Commercial spaces Shops: Planning for retail activity using anthropometrics , Types of layout for shops, Modular units. Materials used in counters, shelves, worktops, their comparative study. Lighting & Colour scheme – natural & artificial light.
Module 2	Commercial space : (300-500sqm)Design the interiors for a commercial space with a floor area of appx. 300sqm. – 500sqm. Such as Apparel store, Boutique, Salon, small cafeteria, ATM Chambers Design should be presented in the form of 2D and 3D drawings (plan, elevations, sections and views) rendered with textures, colors, patterns etc. (*Concepts of modern-day Retail interiors with focus on different themes, designer furniture, materials & finishes Colour, texture & pattern.)
Module 3	Commercial Space above 500sqmt: Designing of Product display unit, windows/internal displays/hierarchy of product display/power of visual communication/graphics. Exhibition spaces – display for exhibition Lighting design for commercial spaces task/display/atmospheric/focal lighting Coloring commercial spaces – coding/decoding/visual communication Design of commercial Environments in Malls, lounges /outlets ,Shopping Arcades Etc. With special focus on atriums, lobby, corridors and cutouts accompanied by complete drawings of interior design including furniture layout.
Module 4	Presentation of design: Presentation of Design for specific ideas and select materials appropriate to intended purpose. To understand the visuals and functional characteristics, Develop an understanding of

	structures, special awareness, materials and processes, Develop skills in design development using working drawing, visual, scale models and prototypes furniture, interior details in place and interior finishes with different colors, Textures.
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REFERENCE BOOKS

1. Design: Form, Space and Order, Francis D.K. Ching
2. Architectural Graphic Standards, Ramsey Sleeper
3. Drawing for Interior Design, Drew Plunkett
4. Neuferts Architects Data, Ernst Neufert
5. Time Saver Standards for Interior Design, Joseph C

REFERENCE E- BOOKS & JOURNALS

1. A Beginner's Guide to Store Floor Planning (free quick-read ebook) by DotActiv
2. Retail Store Layout Design & Planning Guide (online resource)
3. RETAIL DESIGN: Exploring Lighting... (Quartier et al., 2009)
4. Retail Design: Colour-light & Brand Identity (ResearchGate, 2016)
5. Materials & Ergonomics: Start with the shelf design research (2020) for practical layout influence.

REFERENCE YOUTUBE LINKS

1. <https://youtu.be/YSVgqXzg4QU>
2. <https://youtu.be/jP3ekOK1F-I>
3. <https://youtu.be/UQbxHdySRDc>
4. <https://youtu.be/nKoUYjHRvis>
5. <https://youtu.be/T7VaBHlaAv8>
6. <https://youtu.be/em7dqAHhgRY>

SEMESTER-III															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
PC	BID3352	Materials & Construction Techniques-III	Theory/ Practical	1	3	0	4	24	8	8	40	60	50	110	150

SUBJECT OBJECTIVE

1. To enable the students to understand and experience various types of construction materials & design of interior components that are built on site, with combination of various materials. Focus on partitions and built in furniture's.

LEARNING OUTCOME

1. Learn about different materials used in construction and design of interior components
2. Students would be able to study various types of partitions and built in furniture's as major part of interior design
3. Understand different types of built-in furniture's used in interiors.

MODULE	COURSE TOPICS
Module 2	Material for wall (Interior wall finishes): Wet and Dry wall cladding in different materials wall claddings and finishes, their advantages, disadvantages, uses and application methods. Wall paneling in different materials.
Module 3	Ceilings: Study of different types of ceilings (fixed & suspended etc.), materials used for different types of ceilings, including heat and sound insulating materials
Module 4	Commercial forms of wood: Wood, Plywood, block boards, particle board, medium density fiber etc, their properties, process of manufacture, tools and technology of its application and quality assessment, finishes to reconstituted wood, - lamination, polishing etc
Module 5	Internal Finishes: Protective coating paints. Types of paints, Composition, functions, preparation and application method, painting on different surfaces, defects in painting etc. Varnishes (Oil and spirit), Various types and methods of application.

REFERENCE BOOKS

1. Building Construction, W.B. McKay, Vols. 1-4
2. Building Construction Illustrated, Francis D.K. Ching
3. Building Construction and Materials, M.V. Naik
4. Construction of Buildings, Richard Barry, Vols. 1-5
5. Construction Technology, Chudley, Vols. 1-6

REFERENCE E- BOOKS & JOURNALS

1. Floor and Wall Finishes – Hospitality Kitchen Design (Architect's Pocket Book)
2. A Study on Interior Flooring Materials for Safe Elderly Nursing Homes
3. Wood Handbook: Wood as an Engineering Material (USDA Forest Products Lab)
4. Properties of Wood & Structural Wood Products
5. Interior Design Handbook of Professional Practice (McGraw-Hill)

REFERENCE YOUTUBE LINKS

1. <https://www.youtube.com/watch?v=sA5Su4CD0Gk>
2. <https://youtu.be/cMH7v5S-8cM?si=Yr38ynGQKHPZniKN>
3. <https://youtu.be/d3vELOKedxw>
4. <https://www.youtube.com/watch?v=KLCU74oV37Y>
5. <https://youtu.be/MkmKay396Z4>
6. <https://youtu.be/HHpYAP2KoYs>

SEMESTER-III															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
SEC	BID3353	Furniture Design & Detailing-I	Practical	1	3	0	4	0	0	0	50	0	50	50	100

SUBJECT OBJECTIVE

1. To enable the students to understand the design attributes & the construction techniques and basics of furniture making in interior works.

LEARNING OUTCOME

1. Be able to understand the construction techniques and process of basic furniture making in interior works
2. Be able to focus on customized and made to order furniture used as latest trends in interiors.
3. Get aware of the furniture designing which is a important part of interior design.

MODULE	COURSE TOPICS
Module 1	Introduction to Furniture style: Styles of furniture– traditional, contemporary and modern design; Furniture for different Purpose–meaning, need; Factors influencing design – climatic condition, family needs and preferences, availability, Furniture through the ages : Overview; Development of Furniture design, Furniture for various spaces and functions – Selection and arrangement.
Module 2	Measurement drawing: Measurement drawing of basic furniture's used in residences with elevation, sections and detail drawings on proper scale. Detailed construction drawings & explaining construction and material finishes. Construction features of furniture - Process in wood furniture: shaping, carving, turning, fluting, reeding, joining & finishes; Upholstering– techniques and designs - Metal and Glass furniture - Methods and finishes - Ornament in furniture.
Module 3	Model Workshop: Preparation of full size or scaled models of selected furniture items in workshop as per the prepared/given drawings and specified materials or simulation of materials upto a considerable & acceptable limit.

REFERENCE BOOKS

1. Design for Children by Kimberlie Birks, Lora Appleton – Publisher - Phaidon
2. How Design Makes the World by Scott Berkun – Publisher - Scott Berkun
3. 1000 Chairs by Peter Fiell and Charlotte Fiell Birkhäuser – Publisher - Taschen America Llc
4. Furniture Design – An Introduction to Development, Material, and Manufacturing by Stuart
5. History of Modern Furniture Design by Daniela Karasova – Publisher - Artefakt
6. Furniture: Furniture that Transforms Space by Anna Yudina - Publisher - Thames and Hudson Ltd

REFERENCE E- BOOKS & JOURNALS

1. Furniture Design by Jim Postell – e resource – Kindle
2. Furniture Making - Designs, Working Drawings, and Complete Details of 170 Pieces of Furniture, with Practical Information on Their Construction by R. S. Bowers – e resource – Kindle
3. Guerilla Furniture Design: How to Build Lean, Modern Furniture with Salvaged Materials by Will Holman – e resource – Kindle
4. The Interior Design Handbook by Frida Ramstedt – e resource – Kindle
5. Furniture for Interior Design by Drew Plunkett and Sam Booth – e resource – Kindle

REFERENCE YOUTUBE LINKS

1. https://youtu.be/AUcVHZ_6kGk?si=107SxDlelXh7yd13
2. https://youtu.be/1fX0B3A309g?si=hSzaB2Fzxx_AGUIY
3. <https://youtu.be/3jLGDngcBre?si=34VI-Cj7D6HKAqP4>
4. <https://youtu.be/Zg2unsktq1c?si=Hy-b8XwtgJks8fU6>
5. https://youtu.be/2a0XALBAV0U?si=j_B4cggLlMsv4G6s

SEMESTER-III															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
LAB	BID3354	Computer Applications-II	Practical	1	0	4	3	0	0	0	50	0	50	50	100

SUBJECT OBJECTIVE

1. To Impart skills of Computer Aided Design & Simulation in decision making in Architectural design.
2. To impart skills of presentation technique using computer as a tool

LEARNING OUTCOME

1. The students will Understand basic Of Adobe Photoshop.
2. The students will Understand CAD 2D as a basic tool for Architectural Design.

MODULE	COURSE TOPICS
Module 1	Introduction to Adobe Photoshop: To the core functionalities of Adobe Photoshop, equipping them with practical skills to effectively manipulate images, create realistic textures, and compose visually appealing layouts. Through hands-on exercises and project-based learning, students will explore techniques essential for digital visualization, enhancing their ability to communicate design concepts clearly and professionally.
Module 2	Introduction to Auto Cad 2D Advance: Advanced Drawing Techniques Polylines, splines, and advanced object creation Using grips and advanced editing commands (Stretch, Chamfer, Fillet) Construction lines and guides for precision. Layer Management and Properties: Creating and managing layers Layer states and filters. Layer transparency and freeze/thaw commands. Blocks and Attributes: Creating, inserting, and editing blocks Dynamic blocks and block attributes. Using block libraries for architectural symbols and furniture layouts
Module 3	Annotation and Dimensioning: Text styles and multi-line text (Mtext) Dimension styles and advanced dimensioning techniques Leaders and tables for project documentation. Advanced Editing and Object Management, External References (Xrefs) and Drawing Management, Plotting and Printing
Module 4	Practical on Auto Cad 2D Advance: Hand on exercises for Auto Cad 2D projects Residence, Layout of a Office, etc.

REFERENCE BOOKS

1. Mastering AutoCAD 2010 and AutoCAD LT 2010", George Omura, Wiley, 2009.
2. Mastering AutoCAD 2017 and AutoCAD LT 2017, [George Omura](#) & [Brian C. Benton](#)

-
3. 100 CAD Exercises - Learn by Practicing!: Learn to design 2D and 3D Models by Practicing with these [Artes Jason](#).

REFERENCE E-BOOKS & JOURNALS

1. <https://helpx.adobe.com/content/dam/help/attachments/PhotoshopCC-KBSC.pdf>
2. <https://helpx.adobe.com/in/photoshop/using/default-keyboard-shortcuts.html>
3. <https://damassets.autodesk.net/content/dam/autodesk/www/shortcuts/autocad/AutoCAD-Shortcuts-Guide-Autodesk.pdf>
4. **AutoCAD 2022 Instructor"** by **James Leach & Shawna Lockhart**
– Suitable for self-study and includes both theory and practical exercises.
5. <https://3dcadclick.com/autocad-shortcut-keys/>

REFERENCE YOUTUBE LINKS

1. <https://www.youtube.com/watch?v=Pkl4n8EPjJY&list=PLjVLYmrlmjGcyy-YEVdWCJ0ZqQwL5Y38a>
2. https://www.youtube.com/watch?v=V2_9rn4earo&list=PLjVLYmrlmjGcyy-YEVdWCJ0ZqQwL5Y38a&index=3
3. <https://www.youtube.com/watch?v=EFIVQTyKpco.Full>
4. <https://www.autodesk.com/campaigns/fusion-360/try-free>
5. https://www.classcentral.com/course/youtube-design-to-make-series-90453?utm_source=chatgpt.com

SEMESTER-III															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
PE	BID3355 (1)	Elective-III Art in Interior Design	Practical	1	1	0	2	0	0	0	50	0	50	50	100

SUBJECT OBJECTIVE

1. Enabling the students to initially suit their interests at the undergraduate level and increase their knowledge in specialized areas related to interiors.

LEARNING OUTCOME

1. Explore them self in specialized areas of interiors by studying topics in detail
2. Expand themselves and their knowledge, creativity, skills globally
3. Learn different aspects of interior design in different areas

MODULE	COURSE TOPICS
Module 1	Introduction to creative arts in interiors: Introduction to creative arts in Interiors Concepts of Art and Interior Art movements through history of Traditional & Folk arts of different state
Module 2	Traditional arts and crafts of India: Important art movements over world wide effecting interiors like Tamilnadu, Karnataka, Kerala, Andhra Pradesh, Goa, Rajasthan, Gujarat, Kutch, West Bengal, Orissa, Bihar, Jammu etc
Module 3	Creative arts & it's use: Types of arts used in different types of interior spaces like residences, restaurants, hotels, hospitals and other living spaces in form of murals, sculpture, wall paintings, creating wall textures Usable art (furniture, water bodies etc.)

REFERENCE BOOKS

1. Publication on Traditional arts and crafts on India, Ministry of Handicrafts Development, G.O.I India.
2. The Art of colour, John Wiley and Sons, USA, 1973
3. Rendering with Pen&Ink

REFERENCE E- BOOKS & JOURNALS

1. Design and Tradition” by Amor Fenn – A classic PDF exploring early design principles and the integration of art into built and interior forms
2. Use of Indian Traditional Folk Arts in Interior Designing” – A CC-BY journal article exploring how folk art supports interior art principles like balance, rhythm, color, space
3. Designing Interior Design: Concept, Typology, Material, Construction by Sylvia Leydecker.
4. The Art of Interior Decoration by Grace Wood (Project Gutenberg)

REFERENCE YOUTUBE LINKS

1. <https://www.youtube.com/watch?v=r6XQSfTYZPo>
2. <https://www.youtube.com/watch?v=QZQyV9BB50E>
3. <https://www.youtube.com/watch?v=voQnMRaAMHE>
4. <https://www.youtube.com/watch?v=IfFb-bFmH9M>

SEMESTER-III															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
PE	BID3355 (2)	Elective-III Colour Theory & Application	Practical	1	1	0	2	0	0	0	50	0	50	50	100

SUBJECT OBJECTIVE

1. Enabling the students to Learning the use of colors in Interiors

LEARNING OUTCOME

1. Explore them self in specialized types of colors used for interiors.
2. Understanding the impact of colors on human being and making its efficient use interior
3. component and various products being used in buildings.

MODULE	COURSE TOPICS
Module 1	Introduction: Study of classification of colour with different hues, values, and shades. Colour composition and properties. Colour wheel showing primary, secondary & tertiary colours. Chart showing Tints & tones of various colours, Colour combinations
Module 2	Applications of colours: Exploring Colour Schemes and its application Assignment on Colour shall be aimed at developing the skills to create Visually pleasing Colour Schemes based on principles of Harmony and Contrast and degree of Chromatism.
Module 3	Colour: Using Colour as element of interior Colour as an expressive element in interior emphasize the character of a building and create harmony and unity
Module 4	Approaches to Colour: Approaches to colour in design and design. The use of colour in design More Than Just Decoration. Examples of colour uses by masters and making a report.
Module 5	Effect of Colour in interiors: Effect of colour in relief compositions. Students may be advised to use colours in interior and exterior rendering of different type shapes in different type shapes in different mediums to have firsthand experience

REFERENCE BOOKS

1. Architectural Rendering Albert & Habe How to paint & draw Jaxtheimer
2. COLOR, Environment, & Human Response by Frank H. Mahnke
3. Color-Communication in Architectural Space by Meerwein, Rodeck, Mahnke
4. The role of colour in design by James A M Bell

REFERENCE E- BOOKS & JOURNALS

1. Colour as a Means of Art" by Frank Howard (Project Gutenberg)
2. Color Theory, Mixing Colors, and How to Create Complementary Color Scheme – *Artist Daily e-Book* (Naomi Ekperigin)

-
3. Full Spectrum: Colour in Contemporary Design by Elena Manferdini & Jasmine Benyamin (2023)
 4. Architectural Colour in the Professional Palette by Fiona McLachlan (2023)
 5. Psychological & biological impact: Studies reveal how colour affects comfort, perception, and visual ergonomics.

REFERENCE YOUTUBE LINKS

1. [colour wheel knowledge pro.makeup by rajni arora](#)
2. [Setta Studios Acquisition V2 \(EN\)](#)
3. [Color Schemes Explained for NATA & JEE Paper 2 | Must Watch Video](#)
4. [Color Psychology in Interior Design](#)
5. [INTERIOR DESIGN | Why are colours important in Interior Design?](#)

SEMESTER IV

SEMESTER-IV															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
PC	BID3401	Specification & Estimation	Theory	2	1	0	3	24	8	8	40	60	0	60	100

SUBJECT OBJECTIVE

1. To enable students to specify material to work out rate analysis and prepare estimates.

LEARNING OUTCOME

1. Learn about different types of material used in interiors of any space
2. Work out rate analysis and prepare estimates of the project
3. Learn different types of tenders

MODULE	COURSE TOPICS
Module 1	Introduction to Specification: Definition, importance and uses of specification – principles and practice; method of writing specification; form and sequence of clauses, calculation of Interior Space
Module 2	Material Specification: Writing detailed specification for various common Interior materials for example, timber, wood products, glass, paints, wall finishes, furniture, lights & other decorative materials etc
Module 3	Specification of simple construction: Writing detailed specification for various interior construction works like Wall paneling, Wall cladding, Floor finishes, False Ceiling, Wall partitions (metal/glass), Other types of ceiling finishes etc.
Module 4	Estimation, Types of estimation: Introduction to cost estimation and definitions of terms related to estimates. Types of estimates, abstract and detailed estimates; detail estimates – methods of estimating; taking out of various items Preparation of bill of quantities – use of schedule of rates; analysis of rate and break up of material requirements
Module 5	Cost accountancy, Rate Analysis: Introduction to cost accountancy and book keeping, Principles of analysis of rates, rates of labour and materials, rate analysis in different Interior works.

REFERENCE BOOKS

1. Estimating and Costing in Civil Engineering: B. N. Dutta
2. Estimation, Costing & valuation by M. Chakraborty.
3. Civil Engineering Handbook – P.N. Khanna
4. R.C.C. Design – Khurmi, Punmia, Sushil Kumar

REFERENCE E- BOOKS & JOURNALS

1. Best Practice Guide to Specification Writing (NBS)
2. Interior space & calculation clauses
3. The Interior Design Reference & Specification Book by Chris Grimley & Mimi Love
4. Design Guide, Reference & Spec Book
5. Estimating, Costing and Valuation by Rangawala

REFERENCE YOUTUBE LINKS

1. <https://www.youtube.com/watch?v=Si5pR646ZvA>
2. <https://www.youtube.com/watch?v=EwV97HTDvvE>
3. https://www.youtube.com/watch?v=2_8aWaCsMIU
4. <https://www.youtube.com/watch?v=xbd7DAEpx0c>

SEMESTER-IV															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
FC	BID3402	Interior Services-II Electrical & Lighting	Theory	3	0	0	3	24	8	8	40	60	0	60	100

COURSE OBJECTIVE

1. Encouraging the students to understand the fundamental services used in interiors of any building beginning with Electrical as one of the services.

LEARNING OUTCOMES

1. Learn about various methods and materials used in electrical layout
2. Different varieties of fittings and fixtures used in interior lighting
3. Students could understand preparation of writing electrical layout

MODULE	COURSE TOPICS
Module 1	Introduction and terminologies Introduction to electricity – its generation, transmission and supply; Terminologies used in electrical supply – ampere, circuit, conductor, volt, watt, single phase, three phase, etc
Module 2	Electricity supply & Distribution Different wires and types of wiring systems – open batten, conduits and casing, their advantages and disadvantages.
Module 3	Lighting & lighting fixtures Purpose of lighting – ambient, task and accent lighting; Forms of lighting sources – point, linear, planar and 3D sources, Lighting types – incandescent, fluorescent, CFLs, LEDs, halogen, etc.; Methods of lighting – direct & indirect, up lighting, down lighting, combination of up & down lighting, concealed lighting, etc.
Module 4	Electrical fittings & Load Calculations Electrical outlets 5/6 Amp, 15/16 Amp, switch boards, switches, sockets, etc.; Precautions & thumb rules for the provision of switch boards, etc. Electrical appliances and their power consumption; Preparation of electrical layouts.

REFERENCE BOOKS

1. Design: Form, Space and Order, Francis D.K. Ching

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2. Interior design, Ahmed Kasu
 3. N.B.C India
 4. Building Construction and material, B.C Punamia
 5. Building Construction and material, Rangwalla

REFERENCE E- BOOKS & JOURNALS

1. Basic Electrical Engineering" by V.K. Mehta & Rohit Mehta
2. Electricity 101: From Fundamentals to Functional Circuits" by Brian Jenkins
3. Electrical Wiring, Estimating and Costing" by Uppal & Ghosh
4. Interior Lighting for Designers" by Gary Gordon
5. Fundamentals of Lighting" by Susan M. Winchip

REFERENCE YOUTUBE LINKS

1. <https://youtu.be/mvuHsu8S6v8?si=tqRQzwc5BKteFIHl>
2. <https://youtu.be/BIRS34UnsCo>
3. <https://youtu.be/Jlun-00WjGg>
4. <https://youtu.be/p7FKAL9cItM>
5. https://youtu.be/d6Zal_GWvY8

SEMESTER-IV															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
PC	BID3451	Interior Design Studio-IV	Practical	1	4	6	8	0	0	0	50	0	100	100	150

COURSE OBJECTIVE

1. To introduce the basics of designing for Public & Institutional spaces and to develop skills in interiors required for the same

LEARNING OUTCOMES

1. Emphasis on interior planning of Public spaces & Institutional Spaces.
2. Develop analytical thinking, conceptualization and the problem-inquiry, solution cycle for various institutional Spaces.
3. Examines the connection between abstract design principles & the visual environments.
4. Integration of all interior schemes line, colour, furniture, flooring, wall covering etc in large scale projects

MODULE	COURSE TOPICS
Module 1	Public space (150-250sqmt): Introducing enhanced skills of planning of Public spaces with clear understanding and application of functionality, space usage and concept/theme, use of contemporary materials, construction techniques and advanced services required for the design project. Exercises • Large fine-dining restaurant with partly open-air area with due importance to differently abled user(Universal design), for a realistic site. • Small to medium sized commercial interior spaces such as branch office of Bank, Branch office of Multi National Corporation • Food courts, Bar Lounges etc...
Module 2	Public space(150-250sqmt): Continuous assessment of based on sketches, scaled drawings, study models in various materials, case studies, visit reports, power point presentations etc. Design portfolio should consist of Project Brief, Client profile, Theme Sheet, Measurement Plan/ Furniture Layout Plan/ Flooring Layout/ Reflected Ceiling Layout/ Electrical Layout/ Lighting Layout, Sectional Elevations/ Perspective Views etc....
Module 3	Institutional Spaces: Exercise :Primary School

		SEMESTER-IV														Total (A+B)
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation								
				L	P	S/P	C	EIA	TA	AT	Total (A)	Theory (T)	Practical (P)	Total (B)		
PC	BID3452	Materials & Construction Techniques-IV	in interiors/ Practical	1	3	0	4	24	8	8	40	60	50	110	50	
		Exercise : School Library														
		- Applying anthropometry in relation to interior spaces of primary school, Various techniques of creating designs & Color scheme in relation to interiors - Layout plan and Constructional details of furniture units used in school and library, Application of color, texture, pattern and their psychological effects - Understand the visuals and functional characteristics of School library - Design for specific ideas and select materials appropriate to intended purpose to study the school library and its functions explaining with furniture layout , interior details in place and interior finishes with different colors, Textures. - Preparing Model of the project showing all interior drawings and other necessary details and preparing a list of materials along with views.														

REFERENCE BOOKS

1. Design: Form, Space and Order, Francis D.K. Ching
2. Architectural Graphic Standards, Ramsey Sleeper
3. Neuferts Architects Data, Ernst Neufert
4. Time Saver Standards for Interior Design, Joseph Chiara

REFERENCE E- BOOKS & JOURNALS

1. Library Interiors: A Planning Guide to the Design of Interior Spaces by Carol R. Brown
2. Designing Spaces for Children: Design, Interiors, and the Play Experience" by Mark Dudek
3. School Design Matters" by Harry Daniels & Andrew Stables
4. Public Places - Urban Spaces: The Dimensions of Urban Design" by Matthew Carmona
5. Design and Interior Design from the 19th Century to the Present" by Anne Massey

REFERENCE YOUTUBE LINKS

1. [Interior Design One | The Design Process and Space Planning](#)
2. https://youtu.be/F8e_PZ0hQHU
3. [100 plus modern school classroom interior design ideas | modern school ideas 2022 #classroomactivity](#)
4. <https://youtu.be/em7dqAHhgRY>

COURSE OBJECTIVE

1. To enable the students to understand and experience various types of interior floor finishes and their designing of interior components that are built on site. Also focus on vertical stacking of building in interior aspects.

LEARNING OUTCOMES

1. Learn about different materials used for flooring used as floor finishes used in interiors.
2. Understand the different varieties of vertical connectivity used with different materials used in interiors.
3. Learn different patterns of designs of parapets and railing with there specifications.

MODULE	COURSE TOPICS
Module 1	Interior Materials: Interior construction materials like Plastics (Acrylic (PMMA), PVC (Polyvinyl Chloride), HDPE/LDPE, ABS (Acrylonitrile Butadiene Styrene), Melamine/Formica) and Polycarbonates. Their application areas and methods of use; Preconstruction & post construction precautions. Market survey of above material – sizes, specifications & rates
Module 2	Vertical components connecting the building: Study and designing of vertical connecting components namely as Ramps and Stairs Lift etc their types , with use of various construction materials for interior purpose, their design parameters depending on quantum of use, feasibility, functionality, aesthetics etc. Materials used for finishes, their advantages & disadvantages.
Module 3	Parapets and Railings: Study of various types of parapets and Railings, different types of materials used for railings and parapets , varieties of railing designs used for railings in interiors along with their design thumb rules, execution aspects, aesthetic qualities, etc.
Module 4	Window Dressing : Design, Function & Application, Types of Window Treatments (Soft & Hard) and their relative accessories, Functional Aspects, Material, Installation Systems, Design Considerations and Space Application.

REFERENCE BOOKS

1. Building Construction, W.B. McKay, Vols. 1-4
2. Building Construction Illustrated, Francis D.K. Ching
3. Construction of Buildings, Richard Barry, Vols. 1-5
4. Construction Technology, Chudley, Vols. 1-6

REFERENCE E- BOOKS & JOURNALS

1. “Designing with Plastics and Composites – A Handbook” – detailed guide including PMMA, ABS, PVC, PC, melamine, POM etc. pdfcoffee.com
2. “Plastics Materials” (7th ed.) by Dr. S. Suresh Kumar – accessible flipbook with sections on melamine-formaldehyde, acrylic, polycarbonate
fliphtml5.com+2fliphtml5.com+2fliphtml5.com+2
3. “Construction Manual for Polymers + Membranes” – includes PVC-U window framing, PMMA glazing, PC cladding, with pre- and post-installation guidance ebin.pub

SEMESTER-IV															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
SEC	BID3453	Furniture Design & Detailing-II	Practical	1	3	0	4	0	0	0	50	0	50	100	100

4. “Design of Ramps” by Usama Badawy (May 2023) – open PDF exploring design standards, usability, safety parameters for ramps [researchgate.net](https://www.researchgate.net/publication/368123456)
5. “Stair Design and User Interaction” (MDPI journal, open access) – reviews ergonomic, aesthetic, and safety criteria in stair design [mdpi.com](https://www.mdpi.com/journal/design)

REFERENCE YOUTUBE LINKS

1. <https://youtu.be/cMH7v5S-8cM?si=Yr38ynGQKHPZniKN>
2. https://youtu.be/gv7WSpKt4Zg?si=XOdT0AW_PCGJOBbB
3. <https://youtu.be/DStoMEQx8DY?si=6jObOEzhSFSwxSAh>
4. https://youtu.be/ATGEhLFBtk4?si=6uCN0U14_1rvKN0Z
5. https://youtu.be/IYEvHg17BSQ?si=_RdhMZqNq0OzKc1Q

SUBJECT OBJECTIVE

1. To enable the students to understand the design attributes & the construction techniques and basics of furniture making in interior works.

LEARNING OUTCOME

1. Be able to familiarize students with designing of furniture for hospitality spaces
2. Be able to learn use of materials and other details of joinery works
3. Get knowledge about an existing piece of furniture in its functional and technical & carpentry aspects.

MODULE	COURSE TOPICS
Module 1	Ergonomics vs storage systems: Designing and drawing customized basic furniture of various types chiefly for residential use, considering design aspects like ergonomics, functionality, material application, constructability, aesthetics etc. Storage systems: Functional analysis of storage systems and thereby deriving types of cabinets needed for interior spaces – kitchen cabinets, wardrobes closets & respective hardware for modular kitchen. Assignment: Exercise to design kitchen cabinets for a given kitchen in details book cases, show cases, display systems, compactors, mechanical storage, etc. and respective hardware for these.
Module 2	Modular Furniture: An introduction of various manufacturing processes most frequently adopted in furniture design such as Injection Molding, investment casting, sheet metal work, die casting, vacuum forming etc. Assignments : Survey of different types of moulded or casted furniture available for different functions in the market.
Module 3	Modular approach towards material : Various materials, combination of materials, their hardware and applications. Cost criteria of furniture design. Assignments : Survey of several modular systems available for different functions in the market.

REFERENCE BOOKS

1. Design for Children by Kimberlie Birks, Lora Appleton – Publisher - Phaidon
2. How Design Makes the World by Scott Berkun – Publisher - Scott Berkun
3. 1000 Chairs by Peter Fiell and Charlotte Fiell Birkhäuser – Publisher - Taschen America Llc
4. Furniture Design – An Introduction to Development, Material, and Manufacturing by Stuart Lawson -
Publisher - Thames & Hudson.
5. History of Modern Furniture Design by Daniela Karasova – Publisher - Artefakt

REFERENCE E- BOOKS & JOURNALS

1. Furniture Design by Jim Postell – e resource – Kindle
2. Furniture Making - Designs, Working Drawings, and Complete Details of 170 Pieces of Furniture, with Practical Information on Their Construction by R. S. Bowers – e resource – Kindle
3. Guerilla Furniture Design: How to Build Lean, Modern Furniture with Salvaged Materials by Will Holman – e resource – Kindle

SEMESTER-IV Scheme of Teaching																
Course Category	Subject Code	Subject Name	Theory / Practical	e resource – Kindle				Scheme of Evaluation				Total (A)	Theory (T)	ESE Practical/ Viva	Total (B)	Total (A+B)
				L	T	S/P	C	CT	TA	AT						
PE	BID3455(1)	Elective-II Applied Phycology in Design	Practical	1	1	0	2	0	0	0		50	0	50	50	100

REFERENCE YOUTUBE LINKS

1. Furniture Styles Guide (The Top 12 Furniture Styles) https://youtu.be/xpqSbJtK_GA?si=dEEXBPtjdqSGbcHS
2. The Perfect Ergonomic Desk Setup To Avoid Back & Neck Pain
<https://youtu.be/riD8Xt8r1MQ?si=Yn4DHxY-3VxGV4Ed>
3. What is modular furniture?- Modular Furniture
<https://youtu.be/HHpYAP2KoYs?si=ZcqXFyrDXwX8f25L>
4. Designing the NAVE Collection | Materiality, Process & Manufacturing
<https://youtu.be/Zg2unsktqlc?si=Hy-b8XwtgJks8fU6>
5. Form + Function + Furniture: Inside the University of Iowa's 3D Design Program
https://youtu.be/2a0XALBAV0U?si=j_B4cggLIMsv4G6s
6. The IKEA Design Process for the FJÄLLBERGET Chair
<https://youtu.be/jU-imkEarvU?si=t3jhdzinsvpwfJAp>

SUBJECT OBJECTIVES

1. To introduce students to the psychological principles that influence human perception and behaviour in architectural spaces.

LEARNING OUTCOMES

1. Understand how human senses and cognition respond to spatial design elements, both tangible and intangible.
2. Analyse architectural elements like form, scale, materials, and lighting through the lens of visual perception and psychological impact.
3. Apply psychological design principles in real-world contexts to evaluate and improve the functionality and emotional resonance of built environments.

MODULE	COURSE TOPICS
Module 1	Foundations of Psychology for interiors. • How human senses respond to space design. • Tangible and intangible • Cognitive theory and behavioral impact
Module 2	Principles of design • design through the lens of psychological implications- • Scale and proportion • Volume, mass and spatial design .
Module 3	Visual perception • Form, geometric and organic . • Influence of Color, materials, texture, acoustics and lighting
Module 4	Applying Psychology in Design. • Analysis of residence • Analysis of live building •Applying design psychology principles to design personal, community, and public spaces for enhanced user experience.

REFERENCE BOOKS

1. Place Advantage /Applied psychology in interior design by Sally Augustin, PhD
2. Why design matters Psychology in Design/ Paul Goldberger, 2009
3. Psychology for Design | Architectural Psychologist/David V.Canter, 1974
4. Color Psychology and color therapy; A factual study of the influence of color on human life/ Faber Birren, 2016
5. Welcome to your world: How the built environment shapes our lives /Sarah Williams Goldhagen, 2017
6. Art as Therapy | Psychology in Design/Alain de Botton and John Armstrong, 2013
7. History of Modern Furniture Design by Daniela Karasova – Publisher - Artefakt

REFERENCE E- BOOKS & JOURNALS

1. <https://www.jerde.com/news/8452/architectural-psychology-what-is-it#:~:text=A%20key%20notion%20proven%20by,better%20known%20as%20architectural%20psychology>.
2. <https://amazingdesign.com/books/applied-psychology-of-design-the-secret-world-of-architects>
3. https://www.re-thinkingthefuture.com/architectural-community/a9295-what-is-architectural-psychology/#google_vignette
4. <https://truehomedesignbuild.com/the-truehome-method-architect-psychology/>

REFERENCE YOUTUBE LINKS

1. <https://www.youtube.com/watch?v=DviLdO6YyyY>
2. <https://www.youtube.com/watch?v=wX1hDP1vJmI>
3. <https://www.youtube.com/watch?v=yWuqO1iY1z4>

SEMESTER-IV															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
PE	BID3455(2)	Elective-II Communication Design	Practical	1	1	0	2	0	0	0	50	0	50	50	100

SUBJECT OBJECTIVES

1. To enhance critical thinking and analytical writing through case studies, literature reviews, and structured critique.
2. To foster the ability to advocate for design ideas and engage with diverse audiences, including communities and public stakeholders.

LEARNING OUTCOMES

1. Demonstrate effective interpersonal and group communication skills, including interviews, discussions, and the design of questionnaires.
2. Produce well-structured critical and analytical writing such as case studies, book reviews, and literature reviews relevant to architecture.
3. Use visual, digital, and reprographic tools to create professional presentations and communication materials that advocate for architectural ideas in public and community settings.

MODULE	COURSE TOPICS
Module 1	Professional Communication Skills Interviewing techniques, framing questionnaires, group discussions.
Module 2	Critical Writing Skills Writing Case studies, book reviews, literature reviews
Module 3	Digital and Visual Communication Business presentation, Illustration techniques -preparing flowcharts tables & diagrams ,books and magazine , film and television posters ,coverage etc, reprographic techniques.
Module 4	Communication and Advocacy Understand the role of communication in design advocacy and outreach in community and public spaces.

REFERENCE BOOKS

1. Harris, M. (2001), Professional Architectural Photography . Focal Press.
2. Harris, M. (2002), Professional Interior Photography . Focal Press.
3. Adrian, D. and Christopher J. (2000). Language in Use – Upper intermediate. Self-study Workbook and Classroom Book. Cambridge : Cambridge University Press.
4. Dinsmore, G. A. (1968). Analytical Graphics. Canada : D. VanNostrand, Company Inc.
5. Edward, J. F. and Lee, J. (2000). Feature Writing for Newspapers and Magazines. 4th Ed. Longman.
6. History of Modern Furniture Design by Daniela Karasova – Publisher - Artefakt

REFERENCE E- BOOKS & JOURNALS

1. <https://archimash.com/articles/communications-class/>
2. <https://designcompetitions.com/communicating-design/>
3. https://www.re-thinkingthefuture.com/career-advice/a2881-communicating-design-as-a-career-option-for-architects/#google_vignette
4. <https://design.nirmauni.ac.in/what-is-communication-design/>
5. <https://www.archerbuchanan.com/visual-communication-in-architectural-design/>

REFERENCE YOUTUBE LINKS

1. <https://www.youtube.com/watch?v=T1ofzVlhO2w>
2. <https://www.youtube.com/watch?v=3pjO0oYowkk>
3. <https://www.youtube.com/watch?v=kxtgSRUwbUM>

SEMESTER-V															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
PC	BID3501	Low-Cost Interior Materials	Theory	1	3	0	4	24	8	8	40	60	0	60	100

SUBJECT OBJECTIVE

1. To equip students with the knowledge and skills necessary to design functional, aesthetically pleasing, and sustainable interior spaces within constrained budgets.

LEARNING OUTCOME

1. Understanding of cost-effective materials, innovative design strategies, and effective techniques of interior Planning.
2. Learn to create interiors that are affordable without compromising on quality or usability.
3. Exploring design approaches suitable for economically weaker sections, small-scale residential and commercial spaces

MODULE	COURSE TOPICS
Module 1	Interior Materials Selection: Indoor Air Quality (IAQ); Reusable or Renewable Resources; Energy Efficiency; Water Conservation. Features: Pollution prevention; waste reduction; recycled content; embodied energy; Natural materials; Minimal construction waste; Locally produced materials; Non- or less-toxic materials; Durable materials; Rapidly Renewable Materials; Low Maintenance; Reusability; Recyclability; Biodegradability; Harmful chemicals that can affect air quality in interior spaces. Volatile Organic Compounds (VOCs); Brominated flame retardants, Halogenated plastics, Bisphenol A, Heavy metals, Toxic solvents in finishes and sealants, Formaldehyde.
Module 2	Low -cost materials & methods: Bricks & Blocks: Recycled concrete bricks, Adobe bricks, Stabilized earth blocks, Compressed sand bricks, Hydra form bricks, Fly Ash Bricks, Wool Bricks; Wood Materials: Engineered wood: Plywood, Oriented strand board, Glued laminated timber (glulam), Laminated veneer lumber, Cross-Laminated Timber, Parallel strand lumber, Finger-jointed lumber, I-joists and wood I-beams, Roof trusses and floor trusses, Certified Wood; Site and Landscaping: Landscape pavers made from recycled plastic, Recycled asphalt and bitumen, Expanded polystyrene (EPS) foam; Foundations: rigid plastic foam, Concrete blocks with foam inserts. Flooring: Bamboo flooring, Cork flooring, Eco-friendly linoleum flooring; Structural Framing: Wood and steel open-web joist; Roofing: Solar Tiles Roofing, Sustainable Concrete, Fiber-resin composition roofing tiles, integrated sheathing and insulation, pre-tapered for flat roofs, Weatherproof shingles manufactured from recycled aluminum alloys; Structural Envelopes: Super-insulated stress-skin panels; Earth bag construction.
Module 3	Low- cost material finishes: wallpapers, recycled gypsum board or wallboard, Natural Fiber Reinforced Plastics, Casein paint, Sisal wall coverings, recycled burlap or virgin

jute fiber carpet, recycled wool carpet, recycled ground-up tire rubber; Plumbing: Low flow shower heads, Solar hot water, Vacuum-assisted toilets; Ventilation: Heat-recovery ventilator, Triple-Glazed [(low-emissivity (low-E) glass windows.
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REFERENCE BOOKS

1. Low Cost Housing By A.K. Lal
2. Appropriate Building Materials by K.S. Jagadish, B.V. Venkatarama Reddy, K.S. Nanjunda Rao.
3. Vernacular Design of India by Kulbhushan Jain.
4. Building Materials: Products, Properties and Systems by K. Whiting & K. R. Jackson.
5. The Barefoot Architect: A Handbook for Green Building by Johan van Lengen.

REFERENCE E- BOOKS & JOURNALS

1. Sustainable Building Design Manual (2 Volumes), TERI (The Energy and Resources Institute)
2. A Study on Low Budget Interior Design Options, Research paper-style PDF, published in The Indian Journal of Home Science (2018).
3. Interior Design Simplified: A Complete Step-by-Step DIY Guide, Dharti Gajjar (Vadodara-based).
4. Affordable Housing, Adv. Harshul Savla (Notion Press, 21 Jun 2021).

REFERENCE YOUTUBE LINKS

1. [Lecture 24: Green Interiors: Policies and Incentives; Materials and Finishes](#)
2. [Alternate building materials](#)
3. [Lecture 33: Building Material Costing; BoQ; Market Exposure; Product Catalogues](#)
4. [Lecture 24: Green Interiors: Policies and Incentives; Materials and Finishes](#)
5. [Interior Material Knowledge | Best Material for Modular Kitchen, Wardrobe and Cupboards in India - YouTube](#)

SEMESTER-V														
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation						
				L	T	S/P	C	CIA				ESE		
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)
FC	BID3502	Interior Services-III Acoustics	Theory	3	0	0	3	24	8	8	40	60	0	60
														100

COURSE OBJECTIVE

1. To acquaint students about acoustical requirements and consideration for building design right from residential to the theatre type of building.

LEARNING OUTCOMES

1. Understand the different types of acoustic materials used in various types
2. Learn the acoustical design
3. Learn various noise control systems various types of building.

MODULE	COURSE TOPICS
Module 1	Terminology in Acoustics: Sound and its properties, audible sound, intensity and loudness, frequency and pitch, quality Reflection, absorption, transmission, diffusion, diffraction of sound ; Commonacoustical defects: Echo, sound-foci, dead spots, sound shadows, resonance, insufficient loudness, external noise, reverberation and reverberation time.
Module 2	Acoustic materials: Sound absorbing materials and their applications– description and characteristics, types of absorbents and reflectors and their application, Market survey and sample collection.
Module 3	Acoustical design case studies: Study of existing designs to understand shapes/spaces and integration of acoustical equipment in the design.
Module 4	Noise control: Environmental noise control: noise sources, airborne and structure-borne noise, transmission of noise, methods of environmental noise control, control of mechanical noise and vibrations, General idea of sound insulation. Noise control in specific types of buildings like – auditoriums, residential buildings, hotels, school, hospitals, offices, libraries
Module 5	Design exercise: Acoustical design or case study of existing building such as auditorium, recording studio, theatre, cinema halls, hospitals or a multistory office building

REFERENCE BOOKS

1. N.B.C India
2. Building Construction - B.C. Punmia
3. Building Construction and Materials – Gurcharan Singh
4. Fundamentals of acoustic by Kinsler, Lawrence E and others
5. Neuferts Architects Data, Ernst Neufert

REFERENCE YOUTUBE LINKS

1. <https://www.youtube.com/watch?v=906kaCHwyYI>
2. https://www.youtube.com/watch?v=UXGwLQhSR30&list=PLbRMhDVUMngeGSqPVkrc8G_kApltxEEos&index=3
3. https://www.youtube.com/watch?v=Y5_KzFsCNho&list=PLbRMhDVUMngeGSqPVkrc8G_kApltxEEos&index=4
4. https://www.youtube.com/watch?v=xM8HhmvzRz8&list=PLbRMhDVUMngeGSqPVkrc8G_kApltxEEos&index=5
5. https://www.youtube.com/watch?v=AOmayIXZVxk&list=PLbRMhDVUMngeGSqPVkrc8G_kApltxEEos&index=8

SEMESTER-V															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
PC	BID3551	Interior Design Studio-V	Practical	1	4	6	8	0	0	0	50	0	100	100	150

SUBJECT OBJECTIVE

1. To introduce the basics of designing for retail spaces including showrooms and restaurant interiors and to develop skills required for the same.

LEARNING OUTCOME

1. Emphasis on planning show rooms , hospitality spaces
2. To develop visually literate students who are proficient at analytical thinking, conceptualization and the problem-inquiry, solution cycle.
3. Examines the connection between abstract design principles and the physical and visual environments.

MODULE	COURSE TOPICS
Module 1	Introduction to Hospitality Space Design up to 150sqmt: Introduction to types of Hospitality Space Design, Literature and Case studies of a given hospitality space existing. Mood Board, Furniture layout, Interior styles and concepts used Exploring varied design schemes of hospitality spaces thereby knowing functionality, aesthetics, and guest experience as a designer. <u>Recommended Exercises</u> Bars, Pubs, and Lounges, Bakeries and Dessert Shops Catering Halls and, Spas and Wellness Retreats Health Clubs and Fitness Centers, Yoga and Meditation Studios, Jewellery Shop, Dental Clinic, Material Showroom etc
Module 2	Introduction to Hospitality Space Design: Preparing Spatial Planning & Flow Analysis, Conceptual Mood Boards, Acoustics & Soundproofing Study, Lighting & Ambience Exploration, Sustainable Design Challenge, Furniture Layout & Ergonomics, Thematic Wall Treatments along with final Views and sketches supporting the project.
Module 3	Hospitality Space Design (Large Scale up to 800sqmt) <u>Recommended Exercises</u> Designing of a spaces for luxury 3/5-star hotels ,Motels or Banquet Spaces Preparing all necessary interior drawing along with Acoustical treatments and details working drawings of each space.

Module 4	Presentation: Preparing a final Model of the project showing interiors in detail through detailed renders and walkthroughs.
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REFERENCE BOOKS

1. Design: Form, Space and Order, Francis D.K. Ching
2. Architectural Graphic Standards, Ramsey Sleeper
3. Drawing for Interior Design, Drew Plunkett
4. Neuferts Architects Data, Ernst Neufert
5. Time Saver Standards for Interior Design, Joseph C

REFERENCE E- BOOKS & JOURNALS

1. Hospitality Management: A Brief Introduction – Roy C. Wood
2. The Influence of Cultural Design in Hospitality Spaces – Jyoti Singh (2024)
3. DelightFULL e-books – Free downloadable guides on interior & lighting design, offering inspiration and mood-board visuals across themes and color trends
4. Hospitality Lighting Design Guide" (ConTech) – Free PDF focusing on layered lighting strategies (ambient, task, accent), CCT, CRI, contrast ratios, and mood shaping

REFERENCE YOUTUBE LINKS

1. <https://www.youtube.com/watch?v=jSNawVX5Wog>
2. <https://www.youtube.com/watch?v=U-chkhOK3Ks>
3. <https://www.youtube.com/watch?v=8BcZ89lRTNQ>
4. <https://www.youtube.com/watch?v=z1Tnww-J8oI>
5. https://www.youtube.com/watch?v=d7H_QeIdl6k

SEMESTER-V															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
PC	BID3552	Interior Working Drawing - I	Theory/ Practical	1	3	0	4	24	8	8	40	60	50	110	150

COURSE OBJECTIVE

1. The course objective is to make students aware how to draw working drawings for various components building construction

LEARNING OUTCOMES

1. Learn to draw working drawings of various elements of building components with detailed drawings
2. Learn about execution of furniture's and other related drawing
3. Analyzing the drawings that are required while execution

MODULE	COURSE TOPICS
Module 1	Building components : Interior Working drawing of different types of doors and windows, arches, and other types of fenestrations.
Module 2	Building surfaces-residential spaces: Interior Working drawing of wall murals, reflected ceiling plans and flooring patterns.
Module 3	Furniture drawing-residential spaces: Interior Working drawing of bedroom furniture, display units, living room furniture and dining tables.
Module 4	Furniture drawing-Commercial spaces: Working drawings of workstations, office furniture's, Furniture's used in hotels and restaurants, etc

REFERENCE BOOKS

1. Neuferts Architects Data, Ernst Neufert
2. Time Saver Standards for Interior Design, Joseph Chiara

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3. De Chiara and Callender – Time Saver Standards for interior design, 1982.

REFERENCE E-BOOKS & JOURNALS

1. <https://www.wiley-vch.de/en/areas-interest/engineering/design-planning-10ar/interior-design-10ar4/construction-drawings-and-details-for-interiors-978-1-119-71434-7?utm>
2. <https://www.bloomsbury.com/in/drafting--design-9781609018405/?utm>
3. <https://www.perlego.com/book/993547/interior-design-illustrated-pdf?utm>
4. <https://www.perlego.com/book/2065884/the-interior-design-reference-specification-book-updated-revised-everything-interior-designers-need-to-know-every-day-pdf?utm>
5. https://digilib.politeknik-pratama.ac.id/assets/dokumen/ebook/feb_27fa49695ce716527801d5eb92977be3278d1407_1657206991.pdf

REFERENCE YOUTUBE LINKS

1. <https://youtu.be/W4nQXaAtLC4>.
2. <https://youtu.be/xUW3-luLv28>
3. <https://youtu.be/hbfQIAMzxkM>
4. <https://youtu.be/d3vELOKedxw>
5. <https://youtu.be/1EwdBo3r6HI>
6. <https://youtu.be/teAbNf6xOH8>

SEMESTER-V															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/Viva	Total (B)	
PC	BID3553	Contemporary Interiors	Practical	1	2	2	3	0	0	0	50	0	50	50	100

SUBJECT OBJECTIVE

1. To provide students with a comprehensive understanding of contemporary interior design styles, movements, materials, and spatial strategies.

LEARNING OUTCOME

1. Enhance the ability to critically analyse modern interior spaces, recognize key trends, and apply contemporary design principles.
2. Exploring the impact of culture, technology, sustainability, and user-centric design in shaping current interior design practices.
3. Enhance the ability of Measurement drawing of basic furniture.

MODULE	COURSE TOPICS
Module 1	Introduction: Definition, significance, and applications of contemporary materials in interior design and construction. Historical overview and current trends in advanced materials - Properties and Characteristics of Advanced Materials - Mechanical, thermal, acoustic, and optical properties of advanced materials Durability, maintenance, and life cycle considerations.
Module 2	Contemporary Materials & Finishes: High-performance paints and coatings - Sustainable flooring options (e.g., bamboo, cork, and recycled materials) - Advanced wall coverings (e.g., eco-friendly wallpapers, acoustical panels) - Advanced Materials for Furniture and Fixtures - Sustainable upholstery and textiles - Innovative materials for furniture design (e.g., bio-based composites, 3D-printed furniture) - Energy-efficient lighting solutions and advanced lighting controls.
Module 3	Contemporary Process Practices: Environmental impact assessment and sustainable certifications - Life cycle assessment and carbon footprint analysis - Recycling, upcycling, and waste management of advanced materials - Case Studies and Design Integration - Analysis of real-world projects utilizing advanced materials - Integration of advanced materials into interior design concepts. Design exercises and projects incorporating advanced materials.
Module 4	Emerging trends in Contemporary Interiors: Nanotechnology in interiors – biodegradable- 3D printing – Energy generating materials – Smart and Interactive – Biomimicry in Materials – circular Economy and materials reuse. Exploration of

	cutting-edge materials and technologies The role of advanced materials in smart homes and sustainable cities.
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REFERENCE BOOKS

1. The Interior Design Handbook" Author: Frida Ramstedt
2. Contemporary Interiors: 50 Inspiring Rooms by Beta-Plus Publishing
3. Interior Design Principles and Practice, Author: M. Pratap Rao.
4. Interior Design: A Professional Approach, by Author: Seema Suresh

REFERENCE E- BOOKS & JOURNALS

1. Innovative Indian Interior Design
2. **Fusion Modern–Traditional**
3. Sharma, Goel, Choudhary (ShodhKosh)
4. **Deccan College E-Resources**
5. Academic PDFs

REFERENCE YOUTUBE LINKS

1. [CONTEMPORARY Interior Design: 5 KEY Things You Need To Know](#)
2. [Modern vs contemporary interior design: What to know for your next home](#)
3. [TOP 5 INTERIOR DESIGN STYLES IN INDIA | BEST INTERIOR DESIGN STYLE](#)
4. [98 Modern Sunroom Ideas Small Sunroom Design Ideas Sunroom Decorating](#)

SEMESTER-V															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/Viva	Total (B)	
LAB	BID3554	Computer Applications-IV	Practical	1	0	4	3	0	0	0	50	0	50	50	100

SUBJECT OBJECTIVE

1. To Impart skills of Revit and other advance software according to the industry standard
2. To impart skills of presentation technique using computer as a tool

LEARNING OUTCOME

1. The students will understand Revit as a basic tool for Architectural Design, Presentation.

MODULE	COURSE TOPICS
Module 1	Introduction to Revit basic. Interface overview, Revit file types, Starting a new project
Module 2	Basic Drawing & Modelling Tools: Setting up levels and grids. Walls: types, modifying, wall joins. Doors and windows: inserting and customizing. Floors, roofs, and ceilings: basic tools. Columns and beams: structural and architectural
Module 3	Components & Families: Components & Families. Annotation and Documentation, Rendering & Presentation
Module 4	Practical on Revit and D5 for rendering: Hand on exercises for Revit with studio exercises

REFERENCE BOOKS

1. Autodesk Revit 2017 Design Fundamentals
2. Autodesk Revit 2018 Design Basics

REFERENCE E-BOOKS & JOURNALS

1. <https://www.perlego.com/book/2752742/bim-handbook-a-guide-to-building-information-modeling-for-owners-designers-engineers-contractors-and-facility-managers-pdf>
2. <https://www.emerald.com/insight/content/doi/10.1108/S2516-285320190000002042/full/html>
3. https://en.wikipedia.org/wiki/Charles_M._Eastman?utm
4. <https://www.emerald.com/insight/content/doi/10.1108/s2516-285320190000002042/full/html?utm>

REFERENCE YOUTUBE LINKS

1. <https://help.autodesk.com/view/RVT/2024/ENU/?guid=GUID-C7FC8EF6-6418-431F-ADC6-493C2E911AFF>
2. <https://www.youtube.com/watch?v=64YT24>
3. <https://vagon.io/blog/tutorials-for-learning-revit?utm>
4. <https://clipzag.com/watch?v=QoNtjh93YyU&utm>
5. <https://www.youtubesummaries.com/science-andtechnology/v1czOOzYvpM?utm>

SEMESTER-V															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
PE	BID3555	Elective -V Art Appreciation	Practical	1	1	0	2	0	0	0	50	0	50	50	100

SUBJECT OBJECTIVE

1. To develop a critical understanding and informed sensitivity towards various forms of art and their historical, cultural, and aesthetic significance.

LEARNING OUTCOME

1. This subject aims to enhance students' visual literacy, enabling them to interpret and analyze artworks across different styles.
2. Exploring the relationship between art, culture, and interior spaces.
3. Learn to apply artistic principles thoughtfully in interior design concepts, enriching their creative expression and contextual awareness.

MODULE	COURSE TOPICS
Module 1	Introduction to creative arts in interiors: Introduction to creative arts in Interiors Concepts of Art and Interior Art movements through history of Traditional & Folk arts of different state
Module 2	Traditional arts and crafts of India: Important art movements over world wide effecting interiors like Tamilnadu, Karnataka, Kerala, Andhra Pradesh, Goa, Rajasthan, Gujarat, Kutch, West Bengal, Orissa, Bihar, Jammu etc
Module 3	Creative arts & it's use: Types of arts used in different types of interior spaces like residences, restaurants, hotels, hospitals and other living spaces in form of murals, sculpture, wall paintings, creating wall textures Usable art (furniture, water bodies etc.)

REFERENCE BOOKS

1. History Of Art by Janson and Janson
2. Humanities Through The Arts by F. David Martin and Lee A Jacobus
3. Indian Art by Partha Mitter
4. Introduction To Indian Art by Ananda k Coomaraswamy
5. Ways Of Seeing by John Berger

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6. History of Beauty by Umberto Eco et al
 7. The Story of Art by E.H.Gombrich

REFERENCE E- BOOKS & JOURNALS

1. THE NEED FOR ART APPRECIATION IN THE STUDY OF DESIGN:
https://www.researchgate.net/publication/317036233_THE_NEED_FOR_ART_APPRECIATION_IN_THE_STUDY_OF_DESIGN
2. How art enhances design:
<https://www.chapmantaylor.com/insights/art-and-design>
3. Reading: Gothic Design: <https://courses.lumenlearning.com/masteryart1/chapter/reading-gothic-design/>
4. Meaning Behind Art and Design: <https://owlcation.com/humanities/Deriving-Meaning-from-Art-and-Design>

REFERENCE YOUTUBE LINKS

1. <https://guides.baker.edu/c.php?g=303126&p=2022584>.
2. <https://www.youtube.com/watch?v=ciBIZdRhupk>
3. <https://www.youtube.com/watch?v=EJRwAxdQyLM>

SEMESTER-V															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
PE	BID3555	Elective -V Product Design	Practical	1	1	0	2	0	0	0	50	0	50	50	100

SUBJECT OBJECTIVE

1. To introduce students to the fundamentals of product design within the context of interior environments, enabling them to conceptualize, develop, and prototype functional and aesthetically relevant interior products.

LEARNING OUTCOME

1. To build a strong foundation in design thinking, user-centric design, material exploration, ergonomics, and sustainable practices.
2. Learn to create innovative and context-sensitive products such as furniture, lighting fixtures, decor elements, and functional accessories that enhance interior spaces.
3. To learn hands-on learning and iterative design for interior spaces.

MODULE	COURSE TOPICS
Module 1	Introduction: Definition of product design, design by evolution & design by innovation, essential factors, primary design phases & flow charting.
Module 2	Product Strategies & Analysis: Standardization industrial design organization, role of aesthetics in product design, functional design practices, strength, stiffeners & rigidity considerations in product design.
Module 3	Review of Production Processes: Primary machining & non-traditional machining processes, for designing with plastics, rubber, ceramics & wood.
Module 4	Economic Factor & Anthropometrics: Product value, design for safety, reliability & environmental considerations, economic analysis, human considerations in product design, anthropometry.
Module 5	Product Development: Product development from concept to product designing for function, production, handling, use and maintenance

REFERENCE BOOKS

1. Product Design and Development - Karl.T.Ulrich, Steven D Eppinger - Irwin McGrawHill - 2000.

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2. Product Design and Manufacturing - A C Chitale and R C Gupta, PHI, - 3rd Edition, 2003.
 3. New Product Development - Timjones. Butterworth Heinmann - Oxford. UCI -1997
 4. Product Design for Manufacture and Assembly – Geoffery Boothroyd, Peter Dewhurst and
 5. Winston Knight – 2002

REFERENCE E- BOOKS & JOURNALS

1. <https://www.mheducation.com/highered/product/product-design-development-ulrich-eppinger/M9781260043655.html>
2. <https://doc.lagout.org/education/Product%20Design%20and%20Development%20%285th%20Edition%29.pdf>
3. https://www.researchgate.net/publication/338027591_Design_and_Graphic_Design
4. <https://ebooks.iospress.nl/volumearticle/61139>

REFERENCE YOUTUBE LINKS

<https://www.youtube.com/watch?v=tJ0HfPeoMcA>

<https://www.youtube.com/watch?v=rVGyneIXSZw>

https://www.youtube.com/playlist?list=PL8f_m4YIDI0uVTtWv_GJQbdfx_gbzFHeY

SEMESTER-V															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
PE	BID3555	Elective - V Set Design	Practical	1	1	0	2	0	0	0	50	0	50	50	100

SUBJECT OBJECTIVES

1. To develop skills in script analysis and visual conceptualization through sketches, mood boards, and design interpretation.
2. To enable students to translate design concepts into detailed technical and physical outputs, integrating lighting, spatial dynamics, and presentation techniques.

LEARNING OUTCOMES

1. Understand the historical evolution, types, and roles of set design in shaping audience experience across performance and media platforms.
2. Analyse scripts or scene briefs to develop coherent and expressive design concepts that align with mood, character, and thematic elements.
3. **Create and present detailed set designs using both digital tools and physical models, effectively communicating ideas within a collaborative team environment.**

MODULE	COURSE TOPICS
Module 1	Fundamentals of Set Design •Introduction to set design: history, types, and significance •Role of the set designer in performance and media •Overview of performance spaces and stage types
Module 2	Script Analysis and Conceptualization •Reading and interpreting scripts or scene briefs •Identifying mood, theme, and character influence on design •Developing concept sketches and mood boards
Module 3	Script Analysis and Conceptualization •Reading and interpreting scripts or scene briefs •Identifying mood, theme, and character influence on design •Developing concept sketches and mood boards
Module 4	Lighting and Visual Effects •Fundamentals of stage lighting and its impact on sets

	•Interaction of light, color, and texture in design •Using lighting to enhance mood and spatial perception
Module 5	Design Development and Presentation •Detailed drawings and digital modeling (AutoCAD, SketchUp, etc) •Physical model making techniques •Collaborative project: designing a set for a chosen script/scene •Presentation skills: communicating design to directors and teams

REFERENCE BOOKS

1. <https://libguides.brown.edu/WebResources/SetDesign>
2. https://www.researchgate.net/publication/373931594_Script_Analysis_for_Actors_Directors_and_Designers
3. <https://www.onstagelighting.co.uk/stage-lighting-basics/>
4. <https://www.amazon.in/Scientific-Presentation-Skills-Presentations-Recognized-ebook/dp/B09SVH628K>

REFERENCE E- BOOKS & JOURNALS

1. <https://www.scribd.com/document/552337856/Set-Design-Notes>
2. <https://www.autodesk.com/in/campaigns/autocad-tutorials>
3. <https://www.sketchup.com/en/plans-and-pricing/sketchup-free>

REFERENCE YOUTUBE LINKS

1. https://www.youtube.com/playlist?list=PL_XQ6cQy7E5o_v-o_0G2Q6jW1M9zP8f9S
2. https://www.youtube.com/watch?v=s5R7s3k_t9w
3. <https://www.berklee.edu/careers/roles/scenic-designer>
4. <https://glcoverage.com/2024/06/21/script-analysis/>
5. <https://www.youtube.com/studiobinder>

SEMESTER VI

SEMESTER-VI															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
PC	BID3601	Lighting & Interiors	Theory	1	1	0	2	24	8	8	40	60	0	60	100

SUBJECT OBJECTIVE

1. Students should acquire knowledge of the various types of lightings to effectively communicate their designs

LEARNING OUTCOME

1. Understand the effect of various lights on colours and textures.
2. study of natural and electric lighting in an architectural context.
3. component and various products being used in buildings.
4. Emphasis upon the role light can play in shaping interior

MODULE	COURSE TOPICS
Module 1	Introduction to lighting: Nature of light – Wavelength, Photometric quantities – intensity, Flux, illumination and luminance, visual efficiency, sources of light, day light factor concept, design sky concept, day lighting requirements. Colour fundamentals: Colour temperature, object Colour, reactions to Colour, chromaticity, Colour rendering index. Light sources: basic characteristics, selecting an appropriate light source, comparison of natural and artificial light
Module 2	Day lighting: Daylight source, Characteristics of day light, Control devices: Conventional divisions, optical division, prismatic division, awnings, curtains, overhangs, light shelves, sills, fins, jalis, louvers and shutters, photo chromatic and film controls, prismatic glass, special high-performance glasses inbuilt louvers.
Module 3	Artificial lighting: Electric lamps – incandescent, fluorescent, sodium vapor, mercury, halogen and neon. Different types of lights in interior and exterior - task lighting, special purpose lighting. Calculation of artificial lighting, guidelines for lighting design, Glare in artificial lighting Effect of lighting in interior.
Module 4	Luminaires & Symbols: Definition, different luminaries for lighting, lighting control system- benefits & Symbols Guide, Codes and Compliance, Lighting Organizations, Directional Effects of Lighting, Light Distribution, Layers of Light, Residential Lighting Techniques, Office Lighting Techniques, Restaurant Lighting Techniques, Outdoor Lighting

Module 5	Lighting Applications: Lighting art galleries, museum, residential, educational, commercial, industrial, buildings Special lighting applications: emergency lighting, floodlighting, street lighting, fiber optic lighting, hollow light guides, prismatic light guides, remote source lighting.
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REFERENCE BOOKS

1. Architectural Lighting by M. David Egan, Victor W. Olgyay
2. NBC ,India
3. Neufert

REFERENCE E-BOOKS & JOURNALS

1. Building Science II: Architectural Lighting (Daylight Factor & Design Sky)
1. Illumination Requirements & UDI
2. Radiance “Daylight Simulation” Guide
3. Daylighting Metrics for Residential Buildings – Explores standard daylight factor vs. new climate-based metrics (UDI, circadian entrainment)

REFERENCE YOUTUBE LINKS

1. [BS - Lecture 5 - Artificial Lighting - By Prof. A. D. Kachhadiya](#)
2. [Artificial Lighting Setup Basics](#)
3. [Daylighting optimized fenestration](#)
4. [7 DAYLIGHTING TECHNIQUES FOR BUILDING](#)

SEMESTER-VI															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
PC	BID3601	Lighting & Interiors	Theory	1	1	0	2	24	8	8	40	60	0	60	100

COURSE OBJECTIVE

1. Integration of HVAC system with building design & its application.

LEARNING OUTCOMES

1. Expose about areas of air-conditioning, heating and ventilation in buildings of various type
2. Learn integration in most appropriate manner right at the design stage.
3. Get aware about the various fire and sensory mechanisms

MODULE	COURSE TOPICS
Module 1	Air conditioning Principles of Air conditioning; concept of thermal comfort; physiological principles; reaction of human body to the thermal environment; selection of indoor and outdoor design conditions; refrigeration and air cycle; cooling and heating load calculations; various systems of air conditioning; duct work and air conditioning layout, fittings and fixtures; evaporative cooling, air conditioning
Module 2	Equipment's & Process Scheme and equipment required for HVAC; their placement and physical space requirements & Various systems of air conditioning; duct work and air conditioning layout, fittings and fixtures; evaporative cooling.
Module 3	HVAC design & Fire Safety & Security Design and drawing of HVAC system for existing /pre-designed building. Mechanism of fire spread in building and prevention – Fire safety standards – Concepts in fire protection Fire Heat sensitive detectors – Smoke detectors – Automatic water sprinkler system- Foam systems. Fire Retarding materials, Fire rated doors, etc., Principles of Security, types of security system and its application
Module 4	Lift & Escalators: Definitions, types of lifts & escalator
Module 5	Cyber Security & Building Automation System: Definitions, its use and applications

REFERENCE BOOKS

1. F. Hall , “Building Services and Equipment, Volume 1,2 & 3”, Routledge; 3rd edition 1994
2. John E. Flynn and Jack A. Kremers, “Architectural Interior Systems” , Van Nostrand Reinhold; 3 Sub edition, 1992
3. P. N. Ananthanarayan, “Basic Refrigeration and Air Conditioning” , Tata McGraw-Hill Education , 2013
4. Strakosch, George R. “Vertical transportation: elevators and escalators”, John Wiley & Sons Inc, 1983.
5. Lechner, Norbert, “Heating, cooling, lighting: Sustainable design methods for architects”, John wiley & sons, 2014.

REFERENCE E- BOOKS & JOURNALS

1. 1.ASHRAE Handbook (Four-Volume Set: Fundamentals; HVAC Systems; Applications; Refrigeration), Publisher: American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE)
2. HVAC Systems Design Handbook (5th Edition), Publisher: McGraw-Hill Professional
3. Mechanical and Electrical Systems in Buildings (6th Edition) by Richard R. Janis, Publisher: Pearson (Prentice Hall)
4. Building Services Engineering Research and Technology, Publisher: SAGE on behalf of CIBSE
5. Fire Technology, Publisher: Springer (in conjunction with NFPA & SFPE)

REFERENCE YOUTUBE LINKS

1. https://www.youtube.com/watch?v=GUmI_IH9cAc - (Complete fire-fighting course: pump sizing, standpipe & hose systems) reddit.com, youtubesummaries.com
2. <https://www.youtube.com/watch?v=Y7iMQxipEAs> - (MEP complete design calculations: HVAC, plumbing, fire-fighting design) youtubesummaries.com
3. <https://www.youtube.com/watch?v=egH4Z6KsVug> - (Fundamentals of HVAC – basics of systems, BMS, coils, ducts)
4. https://www.youtube.com/watch?v=OvYlyQ_whXE - (Animation: central air conditioning system overview) scribd.com
5. <https://www.youtube.com/watch?v=EjCBc5gl31o> -(Animation: Air Handling Unit – AHU explained) classcentral.com

SEMESTER-VI															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
PC	BID3651	Interior Design Studio-VI	Practical	1	4	6	8	0	0	0	50	0	100	100	150

COURSE OBJECTIVE

1. The objective of the course is to introduce the students to the different types of Religious space & Public space and interior design requirements related to them.

LEARNING OUTCOMES

1. Involving students in different design ideas & concepts for religious space.
2. Analyze various schemes to represent the designing of public spaces.
3. Understanding the design process with help of new materials & finishes for new spaces in public & religious interiors.

MODULE	COURSE TOPICS
Module 1	Introduction to Religious spaces: Introduction to the types of Religious Building and their Interior style, material used and strategy for designing of interior aesthetics of religious and worship places..
Module 2	Designing of Religious spaces(Up to 200sqmt): Designing of Interior spaces of Religious spaces like Temples, Mosques, Churches, Gurudwaras etc....using Sustainable and ecofriendly Materials to explain your design concepts, colour themes, furniture styles etc...
Module 3	Public Building above 200sqmts: Creating spaces that minimize environmental impact while maximizing comfort. By using sustainable materials, Natural Adhesive & Non-Toxic Finishes, Energy-Efficient Lighting Strategy, Acoustic Eco-Friendly Solutions Adaptive Reuse Brainstorming etc..... Exercises Recommended: Interior of Auditorium, Set designing, Home Theatres Multiplexes, Conferences, Meditation Halls etc

REFERENCE BOOKS

1. Design: Form, Space and Order, Francis D.K. Ching
2. Architectural Graphic Standards, Ramsey Sleeper

3. Drawing for Interior Design, Drew Plunkett
4. Neuferts Architects Data, Ernst Neufert
5. Time Saver Standards for Interior Design, Joseph Chiara

REFERENCE E- BOOKS & JOURNALS

1. Sacred Buildings: A Design Manual by Rudolf Stegers & Dorothea Baumann
2. The Role of Light in the Design of Religious Buildings.
3. Principles of Islamic Design
4. Islamic form & spatial typologies
5. Designing Sacred Spaces by Sherin Wing

REFERENCE YOUTUBE LINKS

1. [FY25Q2 Regional Pricing- Special Pricing \(IN EN\)](#)
2. [HOW TO CREATE A DESIGN CONCEPT // How to develop a concept for design & interior design](#)
3. [A Guide to Auditorium Design | Edu-Archs](#)
4. [Technical Theatre - Set Design 1](#)

SEMESTER-VI															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
PC	BID3652	Interior Working Drawing-II	Theory/ Practical	1	3	0	4	24	8	8	40	60	50	110	150

SUBJECT OBJECTIVE

1. The course objective is to make students aware how to draw interior working drawings for various components building construction.

LEARNING OUTCOME

1. The students will understand to draw interior working drawings of various elements of building components with detailed drawings.
2. The students will understand about execution of furniture's and other related drawing.
3. The students will understand Analyzing the drawings that are required while execution.

MODULE	COURSE TOPICS
Module 1	Toilet Layout: Interior Working drawing for toilet areas with plumbing details Materials, floorings, walls, textures, fittings & fixtures details.
Module 2	Kitchen Layout: Interior Working drawing of kitchens of different designs with detailing of shelves and cupboards, Storage areas, flooring, wall tiles, chimney etc with special focus on ergonomics.
Module 3	Detailing of special areas Commercial spaces: Interior Working drawing details of ceiling plans, detail drawings of false ceilings, wall claddings and other walls treatments. Special Areas Interior Working drawing details of Bank counter, Bar counter, Conference table, shop front, Show window for exhibits merchandise
Module 4	Detailing of storage areas Residential spaces: Interior Working drawing and details of wardrobes, TV cabinet and showcase, crockery shelves, cadenza, chest of drawers, dressing table, etc.

REFERENCE BOOKS

1. Neuferts Architects Data, Ernst Neufert
2. Time Saver Standards for Interior Design, Joseph Chiara
3. De Chiara and Callender – Time Saver Standards for interior design, 1982.

REFERENCE E-BOOKS & JOURNALS

1. <https://www.wiley-vch.de/en/areas-interest/engineering/design-planning-10ar/interior-design-10ar4/construction-drawings-and-details-for-interiors-978-1-119-71434-7?utm>
2. <https://www.bloomsbury.com/in/drafting--design-9781609018405/?utm>
3. <https://www.perlego.com/book/993547/interior-design-illustrated-pdf?utm>
4. <https://www.perlego.com/book/2065884/the-interior-design-reference-specification-book-updated-revised-everything-interior-designers-need-to-know-every-day-pdf?utm>
5. https://digilib.politeknik-pratama.ac.id/assets/dokumen/ebook/feb_27fa49695ce716527801d5eb92977be3278d1407_1657206991.pdf

REFERENCE YOUTUBE LINKS

1. <https://www.youtube.com/watch?v=t3j9IkzIIgG>
2. <https://www.planndesignpro.com/drawing/indian-toilet-plumbing-construction-details-autocad-dwg?utm>
3. <https://www.youtube.com/watch?v=KS2TJhkYh5M>
4. <https://www.reddit.com/r/Revit/comments/185hlms?utm>
5. <https://www.planndesignpro.com/drawing/false-ceiling-design-details-14x12-autocad-dwg?utm>

SEMESTER-VI															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
PC	BID3653	Interior Landscape	Practical	1	3	0	4	0	0	0	50	0	50	50	100

SUBJECT OBJECTIVE

1. The objective of the course is to introduce the students to the practice of arranging and designing landscaping in interiors.

LEARNING OUTCOME

1. Study the concepts of interior landscaping and their application in the design of interior spaces.
2. Use different types of plants, shrubs, etc in landscaping
3. Understand the role of roof and deck landscaping

MODULE	COURSE TOPICS
Module1	Introduction : Introduction to interior; Role and working of landscaping organizations such as ASLA etc., Definition, classification of plants, indoor plants and their functions, layout & components, Various interior landscaping elements – water bodies - pools, fountains, cascades Plants, rocks, artifacts, paving & lighting,
Module 2	Physical requirements of plants: Light, temperature, water, planting medium, soil separator, weight of plants, acclimatization & maintenance. Techniques to meet physical requirements.
Module 3	Interior Landscape: Ergonomics, topiary, etc concepts for designing/ ornamentation of interior landscaping; representation techniques, graphics and symbols, rendering techniques; study of various fundamentals of designing such as aesthetics, expressions, harmony, etc
Module 4	Plant scaping: Plant scaping an area using any style of Interior Landscaping, Providing detail legends of plants, shrubs, etc; using any style of interior landscaping Planters/types and other hardware for interior landscaping
Module 5	Studying planters: Working exercises for spaces like Courtyard design , An outdoor room design , Terrace garden etc.

REFERENCE BOOKS

1. The Manual of Interior Plantscaping – Kathy Fediw
2. Practical guide to designing and maintaining indoor plant environments.
3. Plants for Interior Environments – Charles M. Hubbard
4. Explores indoor plant types and care techniques.
5. Interior Landscape Design – Norman J. Booth

-
6. A classic textbook on planning and design for indoor green spaces.

REFERENCE E- BOOKS & JOURNALS

1. <https://www.youtube.com/watch?v=E5OOWq3Spk>
2. <https://www.youtube.com/watch?v=twVgyBLPy9A>
3. <https://www.youtube.com/watch?v=sCvMTPRTlms>
4. <https://www.youtube.com/watch?v=xZ7OIHkBLpg>

SEMESTER-VI															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
PC	BID3654	Accessories & Product Designing	Practical	1	3	0	4	0	0	0	50	0	50	50	100

SUBJECT OBJECTIVE

1. To develop an in-depth understanding of the design, development, and application of accessories and products within interior spaces.

LEARNING OUTCOME

1. Nurturing creative thinking and practical skills in designing functional, aesthetic, and user-centric accessories that complement spatial design.
2. Exploring materials, manufacturing techniques, ergonomics, and market trends to create innovative products.
3. Emphasis on cultural relevance, sustainability, and usability.

MODULE	COURSE TOPICS
MODULE 1	Need of the Study: Insight of various products and lifestyle accessories in the interiors. Role of accessories in interiors. Integration of accessories in interior design. Design approaches in product and lifestyle accessories design with a focus on functionality, ergonomics, aesthetics, multiple usages etc.
MODULE 2	Stylistic Development: Stylistic development of decorative accessories from the past to present with insight into technological advances and the influences of social, economic and political factors on their design. Brief study of period room settings with the context of decorative accessories complementing the design and interior design.
MODULE 3	Material Study: Study of materials and processes adopted in accessories design. Basic understanding of construction principles, anthropometrics, principles of sizes and proportions, modeling, rapid prototyping, color, texture etc. with broad orientation to socio-cultural and historical context of the sector. Orientation to Indian as well as global context of interiors, trends and market.
MODULE 4	Design Approach: Design approach with limited constraints inherent in accessory products. Evolving the strategy of design with integration of technical complexities and lifestyle influences. Development of the design of products and accessories to specific interiors and prevailing trends. A detailed study involving all the design aspects of any of the following lifestyle accessories: luminaire design, glassware, lighting fixtures, textiles, mirrors, clocks, wall &

	floor coverings etc
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REFERENCE BOOKS

1. Time saver standards for landscape design.
2. Tropical Garden Plants in Colour by Bose and Chowdhury
3. Landscaping Principles and Practices by Jack E. Ingels, Delmar Publishers.

REFERENCE E-BOOKS & JOURNALS

1. Product Design and Development"
by Karl T. Ulrich & Steven D. Eppinger
2. **Design Secrets: Products"**
by Industrial Designers Society of America (IDSA)
3. **Designing Interiors"**
by Rosemary Kilmer & W. Otie Kilmer

REFERENCE YOUTUBE LINKS

1. https://youtu.be/ooR2HOASuvs?si=77wnQnXqhgGXsI_u
2. <https://youtu.be/4j5tj3wF3ig?si=ssdKUY7vOnwuLUDE>
3. <https://youtu.be/67-Ia48Q-5o?si=YkE3Remo7InyGNFc>
4. <https://youtu.be/nel0Su9KzcA?si=htnGToCcybpWmVF8>

SEMESTER-VI															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
PE	BID3655	Elective-VI Vernacular & Low-Cost Interiors	Practical	1	1	0	2	0	0	0	50	0	50	50	100

SUBJECT OBJECTIVES

1. To encourage critical observation and application of vernacular principles through case studies and site investigations to inform contemporary design solutions.

LEARNING OUTCOMES

1. Understand the foundational concepts and socio-environmental factors that shape vernacular and cost-effective design forms.
2. Analyze and interpret vernacular examples across different climatic zones, identifying core principles such as spontaneity, symbolism, place-making, and material logic.
3. Conduct field-based studies of local settlements and develop design criteria that integrate vernacular knowledge into responsive and sustainable design solutions.

MODULE	COURSE TOPICS
Module 1	Introduction to Vernacular & Cost Effective Interior: Definitions, relevance, its role & scope, issues of concern in present day design and causative forces of the & Cost Effective Vernacular & Cost Effective form.
Module 2	Lessons from Vernacular Interior& Cost Effective: Brief overview of the varied learnings from vernacular including sense of place, spontaneity & variation, control, open ended from relationship, symbols & meanings.
Module 3	Case/Literature studies: Study of vernacular, & cost effective and traditional & the world specifically varied in climatic zones.
Module 4	Study of exciting settlement: Study of exciting settlement in vicinity for on- site comprehension of afore-mentioned characteristics & developing a design criterion for ongoing design exercise.

REFERENCE BOOKS

1. Bhatia, Gautam (1994) Laurie Baker: Life, Works & Writings. New Delhi: Penguin Books
2. Bonner, Roger R. M. (1996) Vidyalayam: Cost Effective Technologies for Primary School Construction. New Delhi: British Council Division

3. Doshi, B. V. (1983) Low Cost Housing: An Analytical Study of the Current Practices & Techniques. Ahmedabad: Vaastu Shilpa Foundation
4. HUDCO, Is it possible? The Alternate Approach: Cost Effective Technology Applications for Building Solutions. New Delhi: HUDCO
5. Jagadish, K. S. & others (2007) Alternative Building Materials and Technologies. New Delhi: New Age Intl. Pvt. Ltd.
6. Poulouse, K. Thomas (2002) Reading Material on Housing. New Delhi: Institute of Town Planners
7. Rewal, Raj (2000) Raj Rewal: Humane Habitat at Low Cost: CIDCO, Belapur, New Bombay. New Delhi: Tulika
8. Steele, James (1997) An Design for People: The Complete Works of Hassan Fathy. London: Thames & Hudson

REFERENCE E-BOOKS & JOURNALS

1. <https://www.re-thinkingthefuture.com/rtf-fresh-perspectives/a1826-20-cost-effective-materials-in-construction/>
2. <https://www.wbdg.org/design-objectives/cost-effective>
3. <https://www.archdaily.com/948145/4-ways-to-create-a-safer-and-more-cost-effective-building-environment>
4. <https://archi-monarch.com/cost-effective-design/>

REFERENCE YOUTUBE LINKS

1. <https://www.youtube.com/watch?v=zFrQ0wy-yTo>
2. <https://youtu.be/PmX0npteV3c>

SEMESTER-VI															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
PE	BID3655	Elective-VI Energy Conscious Design	Practical	1	1	0	2	0	0	0	50	0	50	50	100

SUBJECT OBJECTIVES

1. To introduce students to climate-responsive design and passive design techniques suited for different climatic zones and to develop an understanding of the interaction between built form, natural elements.

LEARNING OUTCOMES

1. Analyze various climatic conditions and formulate appropriate shelter design strategies integrating site planning, material choice, and building orientation.
2. Apply solar geometry and passive techniques to optimize thermal comfort, reduce energy loads, and enhance building performance using sustainable principles.
3. Design and evaluate architectural solutions incorporating passive heating and cooling systems, supported by real-world case studies and technical analysis.

MODULE	COURSE TOPICS
Module-1	Types of Shelter, Site Planning & Development: Types of Climate and their Shelter Over view of the different Passive Techniques & Climate responsive design features built form – open space relationship & façade articulation & appropriate use of building materials. Land form & orientation, Vegetation & Pattern, Water Bodies, Open Space & Built form, Plan form & Elements, Roof form, Fenestration pattern & Configuration, Building envelope & finishes.
Module-2	Solar Energy and Buildings: Solar Energy and Buildings Solar geometry and built form – Various techniques of shading to reduce heat gain in tropical climate. Various methods of Maximizing exposure to solar radiation in cold & temperate climate. Heating & cooling loads –Energy conservation methods – Efficient day lighting, Solar Water heating system. Exercises on heating and cooling load calculations in buildings.

Module-3	Passive Heating Techniques: Passive Solar Heating General principles – Direct gain systems - Glazed walls, Bay windows, Attached sun spaces etc. Indirect gain systems – Trombe wall, Water wall, Solar Chimney, Transwall, Roof pond, Roof radiation trap, Solarium. Case studies on buildings designed with passive heating techniques
Module-4	Passive Cooling Techniques: Passive Cooling General principles – Evaporative cooling, radiation cooling, Passive Desiccant cooling, induced ventilation, earth sheltering, Berming, Wind Towers, earth Air tunnels, Curved Roofs & Air Vents, Insulation , Vary Thermal wall. Case studies on buildings designed with passive cooling techniques.

REFERENCE BOOKS

1. Nayak, J.K., & Prajapati, J.A. (2012). *Handbook on Energy Conscious Buildings*. New Delhi: Solar Energy Centre, MNES.
2. Goulding, J.R., Lewis, J.O., & Steemers, T.C. (1992). *Energy Conscious Design: A Primer for Architects*. Brussels/Luxembourg: European Communities/ECSC.
3. Vale, Brenda (1991). *Green Design: Design for an Energy-Conscious Future*. Boston: Little, Brown.
4. Thermal Education for Renewable Infrastructure (2024). *Green Building: Guidebook for Sustainable Design*. TERI Press.

REFERENCE E-BOOKS & JOURNALS

1. https://www.ineer.org/Events/ICEE2008/full_papers/full_paper436.pdf
2. https://www.academia.edu/88145593/Energy_efficiency_in_design_An_overview_of_design_concepts_and_architectural_interventions
3. <https://cordis.europa.eu/article/id/1144-energy-conscious-design>
4. <https://www.tandfonline.com/doi/abs/10.1080/10464883.1977.10758103>

REFERENCE YOUTUBE LINKS

1. https://www.youtube.com/watch?v=EXYw8_pnKr0
2. <https://www.youtube.com/watch?v=xHGzrw6-rNU>
3. <https://www.youtube.com/watch?v=sNEBqgmYx6I>
4. <https://www.youtube.com/watch?v=IrU0Z57Zizg>
5. https://www.youtube.com/watch?v=odBCxWHd_kk
6. <https://www.youtube.com/watch?v=ly8orBNiNQM>

SEMESTER-VI															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
PE	BID3655	Elective-VI Textile in Interiors	Practical	1	1	0	2	0	0	0	50	0	50	50	100

SUBJECT OBJECTIVES

1. The objective of this course is to familiarize the students of Interior Design on textile materials used in interior. This course helps to gain knowledge and understanding of the functional and aesthetic requirements of textiles for a range of application.

LEARNING OUTCOMES

1. Analyse various climatic conditions and formulate appropriate shelter design strategies integrating site planning, material choice, and building orientation.
2. Apply solar geometry and passive techniques to optimize thermal comfort, reduce energy loads, and enhance building performance using sustainable principles.
3. Design and evaluate architectural solutions incorporating passive heating and cooling systems, supported by real-world case studies and technical analysis.

MODULE	COURSE TOPICS
Module 1	Introduction to Fabrics: Fabric, yarn and fiber structure, Fabric structure- woven- warp, weft, selvedge ,knitted- course, non-woven, Fabric types and classification- woven, including plain, twill, satin, Jacquard, crepe and pile weaves, knitted- including single knit, double knit, tricot knit, pile knit, lace and net ,non- woven-including felts webs and films, identification and properties of fabrics, yarns and fibers.
Module 2	Elements & Principles: Application of elements and principles of design across a range of textiles. Describe and analyze elements and principles of design -furnishings, textile arts, non-apparel. Functional and aesthetic requirements and features of textile range.
Module 3	Colour on Fabrics: Fabric coloration and decoration- Principles of applying color to fabrics. Textile arts and crafts in interiors, traditional and modern materials and methods. Preparing samples on tie and die printing, batik printing, appliqué, macramé and braiding
Module 4	Furnishings : Furnishings-classification, types of curtain, curtain construction, selection criteria relation to backgrounds in walls , floors and ceilings. Slip covers ,

	cushion covers , bed linen and table linen Floor coverings -rugs and carpets, types selection , care and maintenance, installation of floor coverings
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REFERENCE BOOKS

1. Inside today's home, Faulkner, R. and Faulkner 1987, Rinehart Winston, New York
2. Interior Design & Decoration, Sherril Whiton, Prentice Hall
3. Introduction to home furnishings, Stepat, D.D, 1991, The Macmillan Company, New York.
4. The themes and Hudson manual of textile printing , Storey Joyce , 1992, London
5. Colour in interior Design Jhon, F.P, 1997, McGraw Hill Company

REFERENCE E-BOOKS & JOURNALS

1. Textile Design: Principles, Advances, and Applications by A. Briggs-Goode & K. Townsend-
2. Woven Textile Structure: Theory and Applications by B.K. Behera & P.K. Hari
3. Structural Textile Design: Interlacing and Interlooping by Yasir Nawab
4. Handbook of Textile Design by J. Wilson
5. Textile Engineering: An Introduction edited by Yasir Nawab
6. Fabric Structure and Design

REFERENCE YOUTUBE LINKS

1. Textile Design: Principles, Advances, and Applications by A. Briggs-Goode & K. Townsend-
https://books.google.co.in/books/about/Textile_Design.html?id=KptWAgAAQBAJ&redir_esc=y
2. Woven Textile Structure: Theory and Applications by B.K. Behera & P.K. Hari-
<https://www.sciencedirect.com/book/9781845695149/woven-textile-structure>
3. Structural Textile Design: Interlacing and Interlooping by Yasir Nawab-
<https://www.taylorfrancis.com/books/edit/10.1201/9781315390406/structural-textile-design->
4. Handbook of Textile Design by J. Wilson- https://books.google.co.in/books?id=IcmkAgAAQBAJ&printsec=frontcover&source=gbs_ge_su
5. Textile Engineering: An Introduction edited by Yasir Nawab-
<https://www.textileebook.com/2021/01/textile-engineering-an-introduction-edited-by-yasir->

SEMESTER-VII															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
LAB	BID3751	Internship	Practical	1	22	0	23	0	0	0	320	0	480	480	800

COURSE OBJECTIVE

1. To equip the students with complete practical knowledge and skills needed for management of office along with current practices and learn to handle interior projects individually.

LEARNING OUTCOMES

Around successful completion of this course, students will be able to:

1. Learn to Tackle problems of interior projects individually.
2. Learn the codes of conduct required to enhance skills and techniques of managing small and large scale residential and commercial interior projects.
3. Impart knowledge and skills needed such as estimating, costing, analyzing rates and processes of tendering for practicing profession of Interior Architecture.

Criteria for selection of a Training Office

In case of proprietorship firm, the proprietor shall be an architect/Interior designer; also, the firm shall have at least two or more architects/Interior designers as employee/associates.

In case of „Partnership“ / „Pvt. Ltd.“ Firms, at least one of the partner/director shall be an architect/Interior designers, and the firm shall have at least one or more architects as Partner/director/employee/ associate.

In case of a „Public-sector“ /“State or Central Government office/academic institute or a multinational organization”, there shall be a separate wing for architectural consultancy works.

The said architect/Interior designers (Proprietor/Partner/Director/Head of Department/Chief Architect etc.) shall have at least 10 years of working experience and the organization should have a variety of projects.

Working Relationship between Architect/Interior designers and Trainee

The architect shall provide enough jobs to the trainee to keep him/her occupied.

The Architect shall expose the trainee to difference aspects of professional practice. The tasks given to the trainee shall include the following-

Preparation of

Sketch designs, presentation drawings etc.
Municipal drawings according to the byelaws.
Workings drawings and details.
Estimates, bill of quantities & specifications.

Discussions with

Clients.
Structural Consultants.
Services Consultants.

Inspection and management of site.

Preparation of

Models, perspectives and photographs.
Reports, progress charts etc.

Other administrative works.

Code of conduct for the trainee

He/she shall abide by the rules, regulations and general instructions of the office/firm.

He/she shall remain punctual and regular in attendance.

He/she shall make all efforts to learn the work involved in the profession, and if so required for work, shall attend the office beyond the scheduled time in the office.

He/she shall respect and obey the senior members of the office/firm.

He/she shall take up the job with full responsibility and show utmost interest in the work allotted.

He/she shall inform the institute/training and placement cell about joining in the training office, its address and contact numbers. He/she shall also inform the address of the accommodation acquired during the training period.

He/she shall remain in regular touch with the institute/ „Training and Placement Cell“ and shall keep the Training and Placement Cell fully informed about his/her progress in the training office.

In case of any complaint or misconduct, the Institute/Training and Placement Cell may take suitable and strict action against the student

Arranging/Fixing-up the Training office

The School of Architecture, directly or through the „Training and Placement Cell“ of the Institute shall provide a list of offices, along with their addresses of some well-established and recognized architects. Addition, alteration and deletion in such a list may be made from time to time in conformity to „Criteria“ as laid down for selection of a training office.

After seeking advice from „Training and Placement Cell“, the student shall make his/her options available to the Training and Placement Cell.

With the help of „Training and Placement Cell“, the student shall make all efforts to settle his/her appointment as trainee with an established and recognized architect/interior designer.

Joining and Leaving the Training Office

The trainee is expected to join the training office on the scheduled date, and submit his ‘**Joining Report**’ on the letterhead of the office duly signed by Head of the Training to the Institute in the Performa prescribed for the purpose and contained in the Log Book.

The trainee must obtain a ‘**No Dues Certificate**’ duly and get relived from the office at the end of the training period or before changing the „Training Office“. The trainee must submit this ‘**No Dues Certificate**’ along with the **Log Book**.

Change of Training Office

In case of any emergency, a trainee may be permitted to change the training office/place of training once only during the entire period of training. He/she shall inform the Principal/Director/Head of

Department/Officer in-charge of the „Training and Placement Cell“, and seek prior permission for such a change.

The total duration of the practical training shall be the sum of the period of stay in different offices. It shall be in conformity with the „Duration of Training“ as prescribed in the „Ordinances, Scheme of Examination & Syllabus“ of the BBD University.

Final Submissions

After completion of practical training, the trainee is required to submit the following to the parent Institute.

„Certificate“ of successful completion of the practical training mentioning the attendance in percentage, from the architect.

„Daily Diary“ with details of the day to day work record, which will be returned to the student after assessment and viva voce examination. The suggested „Proforma“ of the page of the daily diary is available in the prescribed „Log-Book“.

„Training report“ supplemented with the prints and documents of work done during practical training. The prints and documents shall be obtained with the permission of the Training office and shall be duly signed by the „Supervisor“.

Training report shall be submitted in two copies. First copy shall be returned to the student after assessment of sessional marks and viva voce examination. The second copy shall be retained by the Training and Placement Cell/library. These shall be presented in A-4 size with ring binding.

7 Failures:

In case the student/trainee remains unsuccessful or fails in completing his/her practical training or viva- voce examination, the matter shall be dealt with in accordance with the relevant „Rules and Regulations“ of the university.

SEMESTER-VIII															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
FC	BID3801	Interior Professional Practice	Theory	2	0	0	2	24	8	8	40	60	0	60	100

COURSE OBJECTIVE

1. To acquaint the students about different Professional and Legal bodies related to the Interior and Architecture Design Profession, their role and importance.

LEARNING OUTCOMES

Around successful completion of this course, students will be able to

1. Get aware about the professional intricacies, professional responsibilities
2. Understand conduct and legal obligations in professional field
3. To make implications for familiarizing responsibilities as a professional person

MODULE	COURSE TOPICS
Module 1	Familiarization with the Professional Bodies directly and in-directly related to Interior profession such as The Indian Institute of Interior Designers (IIID), The Indian Institute of Architects (IIA), The Council of Architecture (COA), etc. Minimum set standard of education for Interior design Details about Membership categories, its structure and their election procedure Functions and formation of the IIID Council, importance.
Module 2	Code of Conduct followed by professional trade practices and ethics. Roles & responsibility towards profession, public, client, customers and others. Awareness about Interior design competitions and its procedure laid by IIID
Module 3	Steps involved and types of drawing to be submitted at different stages of execution of project Scale of Charges set as standard to be charged at different steps of execution according to different type of projects.
Module 4	Types, details of a tender document, procedure to be followed for calling tenders, tender analysis Important terms such as Earnest Money Deposit, Security Deposit, Defect Liability, Insurance etc. Types of the Contracts, role of the owner, interior designer and the contractor in fulfillment of the contract.
Module 5	Size of the office, location, infrastructure requirement, staff requirement etc. Procurement of the works. Important activities in a professional office.

REFERENCE BOOKS

1. COA document of Architect's Act 1972
2. Professional Practice in India – S.K. Sahu
3. Code of Architectural Practice – B.M. Basu
4. IIID handbook document

REFERENCE E- BOOKS & JOURNALS

1. **Title:** Professional Practice for Interior Designers (6th Edition)
Author: Christine M. Piotrowski
Overview: A definitive guide for managing projects, client communication, ethics, contracts, and legalities in interior design.
Access Link:
<https://www.wiley.com/en-us/Professional+Practice+for+Interior+Designers%2C+6th+Edition-p-9781119554510>
2. **Title:** *Journal of Interior Design (JID)*
Publisher: Wiley / IDEC
Overview: Peer-reviewed journal addressing theory, practice, and education in interior design; useful for academic and professional insights.
Access Link: <https://onlinelibrary.wiley.com/journal/19391668>

REFERENCE YOUTUBE LINKS

1. [Professional Practice in Interior Design | Overview & Career Insights – NID Faculty Talk](#)
2. [Interior Design Contracts and Client Relations – NCIDQ Prep](#)
3. [How to Start Your Interior Design Business – Step-by-Step Guide](#)
4. [Legal Aspects of Interior Design Practice | IDI Lecture Series](#)
5. [Interior Design Project Process: From Client Brief to Completion](#)

SEMESTER-VIII															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
PC	BID3851	Thesis	Practical	4	16	0	20				240		360	360	600

COURSE OBJECTIVE

To provide the students an opportunity to research and develop a design scheme for a project of their choice and approved by the school maintaining professional working standards and attain a professional level approach with extensive details.

LEARNING OUTCOMES

Around successful completion of this course, students will be able to:

- Understand the importance of the evolutionary stages of a design process and various techniques required for a successful presentation of interior design projects.
- Develop in students the ability to handle specific aspects of design, relevant to the topic.
- Focus upon the research in different field

THESIS PROGRAMME

Each student is required to conduct an intensive study and present a design thesis on any of the design topics.

The students should submit synopsis for the least three different, design or research oriented topics, to the respective School, of which one will be approved to carry on the research and design. Each student shall be attached with a faculty member who will guide his work. The arrangement of the assessment of the progress through the semester for all the students and a „Program Schedule“ will be declared separately for each session by the respective School of Architecture.

The work of the student should result into a „Design Proposal“ based on the complete and detailed study of site including its selection, topography, climate, spatial

requirements of the project, special functional and physical needs of the project, and the standard data, construction and services and all other factors that the involved with a particular thesis topic.

At least one of the following items, for complete design or an approved part thereof, should be covered in full detail and included in the design and presentation, along with the final design proposal-

1. Working Drawing & Construction detail
2. Furniture Design & Detailing
3. Detail Estimate & Specification

The design proposal should be prepared and presented with the help of

1. Flow charts, Conceptual sketches
2. Drawings (Proposed drawings in form of (Plans/sections/Elevations))
3. Estimate & costing of the project proposed
4. Working drawings of the proposal
5. Perspective views, models to explain your thinking

It is mandatory to get a paper published on the same topic with proper consent from the Guide and submit A copy of the same in the department Along with thesis report, one soft copy (on CD) and three Hard copies (one to be returned to the student) type written and bound together with prints and photographs of all the drawings & models

The thesis report should explain the objectives, scope, case studies, literature study – research and data, design concept/approach, design proposals, construction programming & financing etc

The original drawings, models and one copy of the thesis report will be returned to the students in due course of time as decided by the respective Institution.

SEMESTER-VIII															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
PE	BID3852	Elective-V Bamboo in Interiors	Practical	1	2	0	3	0	0	0	50	0	50	50	100

SUBJECT OBJECTIVES

1. To introduce the botanical, mechanical, and environmental characteristics of bamboo as a sustainable building material.
2. To familiarize students with bamboo processing, treatment, preservation techniques, and quality standards essential for construction use.

LEARNING OUTCOMES

1. Understand the properties and sustainability benefits of bamboo and its traditional and modern applications in architecture.
2. Apply appropriate treatment and preservation methods to ensure durability and structural integrity of bamboo elements.
3. Design and develop architectural components or small-scale projects using bamboo, demonstrating knowledge of joinery, performance considerations, and innovative construction techniques.

MODULE	COURSE TOPICS
Module 1	Introduction to Bamboo as a Building Material • Botanical characteristics and species of bamboo used in construction • Environmental benefits and sustainability aspects • Traditional uses of bamboo in architecture • Bamboo's mechanical and physical properties
Module 2	Processing, Treatment, and Preservation • Harvesting techniques and seasonal considerations • Treatment methods: chemical, natural, and modern techniques • Bamboo composites and engineered bamboo products • Quality control and standards
Module 3	Structural and Construction Applications • Bamboo as a structural element: beams, trusses, frames • Joinery techniques and connections • Integration with other materials (concrete, steel, glass)

	• Prefabrication and modular bamboo construction
Module 4	Design and Innovation with Bamboo • Contemporary architectural projects featuring bamboo • Design principles for aesthetics and functionality • Acoustic, thermal, and fire performance considerations • Challenges and solutions in modern bamboo architecture
Module 5	Studio Project and Case Studies • Analysis of landmark bamboo architectural projects • Designing a small-scale architectural element or pavilion using bamboo • Model making and detailing • Presentation, critique, and discussion of design proposals

Suggested Book(s):

1. Kim s. elliott., "Precast concrete structures" and "multi-precast concrete framed structures".CBRI, Building materials and components, India.
2. "Prefabricated Structures" by M.Pradeep Kumar from Shanlax Publications.
3. Alternative Building Materials and Technologies by K. S. Jagadish; B. V. Venkatarama Reddy; K. S. Najunda Rao
4. "Prefabricated Structures" by Dr. R. Saravanan from Lakshmi Publications.
5. Koncz T., "Manual of precast concrete construction", Vol. I, II and III, Bauverlag, GMBH.
6. "Prefabricated Structures" by Dr. R.Ganesan and Mrs.A.Latha from Sree kamalamani Publications.

Other Reference Material(s)/Ebook(s):

1. <https://www.sciencedirect.com/science/article/abs/pii/S0959652618323084>
2. https://www.researchgate.net/profile/Omid-Reza-Baghchesaraei/publication/296639797_Using_Prefabrication_Systems_in_Building_Construction/links/56d7279808aebabdb4030298/Using-Prefabrication-Systems-in-Building-Construction.pdf
3. https://www.researchgate.net/profile/Sulaem-Laskar/publication/344380144_ALTERNATE_MATERIALS_FOR_SUSTAINABLE_CONSTRUCTION_TECHNOLOGY_A_STATE-OF-THE-ART_REPORT/links/5f6e30f292851c14bc971cb5/ALTERNATE-MATERIALS-FOR-SUSTAINABLE-CONSTRUCTION-TECHNOLOGY-A-STATE-OF-THE-ART-REPORT.pdf
4. <https://www.academia.edu/download/29459086/H02530063012.pdf>
5. <https://academic.oup.com/tse/article-abstract/2/2/81/5849356>

Video Links:

1. <https://www.youtube.com/watch?v=6NbTyHHXkTk>
2. <https://www.youtube.com/watch?v=QD0QNlhT4j8>
3. <https://www.youtube.com/watch?v=tIZP-tX9b3Y>

SEMESTER-VIII															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
PE	BID3852	Elective-V Green & Sustainable Interiors	Practical	1	2	0	3	0	0	0	50	0	50	50	100

SUBJECT OBJECTIVES

1. To introduce students to climate-responsive architecture and passive design techniques suited for different climatic zones.
2. To develop an understanding of the interaction between built form, natural elements, and environmental factors in achieving thermal comfort and energy efficiency.

LEARNING OUTCOMES

1. Analyze various climatic conditions and formulate appropriate shelter design strategies integrating site planning, material choice, and building orientation.
2. Apply solar geometry and passive techniques to optimize thermal comfort, reduce energy loads, and enhance building performance using sustainable principles.
3. Design and evaluate architectural solutions incorporating passive heating and cooling systems, supported by real-world case studies and technical analysis.

MODULE	COURSE TOPICS
Module 1	Types of Shelter, Site Planning & Development: Types of Climate and their Shelter Over view of the different Passive Techniques & Climate responsive design features built form – open space relationship & façade articulation & appropriate use of building materials. Land form & orientation, Vegetation & Pattern, Water Bodies, Open Space & Built form, Plan form & Elements, Roof form, Fenestration pattern & Configuration, Building envelope & finishes.
Module 2	Solar Energy and Buildings: Solar Energy and Buildings Solar geometry and built form – Various techniques of shading to reduce heat gain in tropical climate. Various methods of Maximizing exposure to solar radiation in cold & temperate

	climate. Heating & cooling loads –Energy conservation methods – Efficient day lighting, Solar Water heating system. Exercises on heating and cooling load calculations in buildings.
Module 3	Passive Heating Techniques: Passive Solar Heating General principles – Direct gain systems - Glazed walls, Bay windows, Attached sun spaces etc. Indirect gain systems – Trombe wall, Water wall, Solar Chimney, Transwall, Roof pond, Roof radiation trap, Solarium. Case studies on buildings designed with passive heating techniques
Module 4	Passive Cooling Techniques: Passive Cooling General principles – Evaporative cooling, radiation cooling, Passive Desiccant cooling, induced ventilation, earth sheltering, Berming, Wind Towers, earth Air tunnels, Curved Roofs & Air Vents, Insulation , Vary Thermal wall. Case studies on buildings designed with passive cooling techniques.

Suggested Book(s):

1. Nayak, J.K., & Prajapati, J.A. (2012). *Handbook on Energy Conscious Buildings*. New Delhi: Solar Energy Centre, MNES.
2. Goulding, J.R., Lewis, J.O., & Steemers, T.C. (1992). *Energy Conscious Design: A Primer for Architects*. Brussels/Luxembourg: European Communities/ECSC.
3. Vale, Brenda (1991). *Green Architecture: Design for an Energy-Conscious Future*. Boston: Little, Brown.
4. Thermal Education for Renewable Infrastructure (2024). *Green Building: Guidebook for Sustainable Architecture*. TERI Press.

Other Reference Materials/Web Links

1. https://www.ineer.org/Events/ICEE2008/full_papers/full_paper436.pdf
2. https://www.academia.edu/88145593/Energy_efficiency_in_architecture_An_overview_of_design_concepts_and_architectural_interventions
3. <https://cordis.europa.eu/article/id/1144-energy-conscious-architecture>
4. <https://www.tandfonline.com/doi/abs/10.1080/10464883.1977.10758103>

Video Links

1. https://www.youtube.com/watch?v=EXYw8_pnKr0
2. <https://www.youtube.com/watch?v=xHGzrw6-rNU>
3. <https://www.youtube.com/watch?v=sNEBqgmYx6I>
4. <https://www.youtube.com/watch?v=IrU0Z57Zizg>
5. https://www.youtube.com/watch?v=odBCxWHd_kk

SEMESTER-VIII															
Course Category	Subject Code	Subject Name	Theory / Practical	Scheme of Teaching				Scheme of Evaluation							
				L	T	S/P	C	CIA				ESE			Total (A+B)
								CT	TA	AT	Total (A)	Theory (T)	Practical/ Viva	Total (B)	
PE	BID3852	Elective-V Historic preservation	Practical	1	2	0	3	0	0	0	50	0	50	50	100

SUBJECT OBJECTIVES

1. To introduce the fundamental concepts, ethics, and scope of architectural conservation, emphasizing the value of heritage buildings and historic structures.
2. To develop an understanding of the causes of deterioration in heritage structures and the importance of thorough documentation and analysis for conservation.

LEARNING OUTCOMES

1. Define heritage and historic buildings and explain the ethical and legislative frameworks that govern architectural conservation.
2. Identify common defects and decay factors in heritage structures and conduct detailed documentation and condition assessments.
3. Apply knowledge of international conservation principles and case studies to evaluate and propose strategies for the preservation of heritage sites and buildings.

MODULE	COURSE TOPICS
Module 1	Introduction to Architectural Conservation: Definition of heritage, what is an historic building? Introduction to architectural conservation of buildings of importance – definition, nature, purpose & scope. Values in conservation, Ethics of conservation building conservation legislation, etc.
Module 2	Defects in heritage: Causes of defects & decay of heritage structural. Natural agents of deterioration & loss.
Module 3	Preparatory procedures of conservation: Initial inspection, continuing documentation, analysis of documentation. Role or need of documentation for conservation & restoration of any heritage built form, heritage precincts or any sort of tangible & intangible heritage. • Listings of region or precincts for generating a database of heritage

	properties • Development of regional level maps for various types of heritage (heritage site maps, heritage land use maps) • Buildings and precincts topology study according to its usage, architectural style, religion (study of demography & its comparison past and present) study • Building material, construction techniques of heritage structure is various topologies of buildings with respect to time
Module 4	Introduction to international characters: Introduction to various characters their significance & their role in guiding our conservation policies & guidelines or regional level & structural level (special reference to Barra & Venice character)
Module 5	Literature study & site visit: Literature case study of Red Fort (available on ASI website) & site visit of ASI protected heritage buildings (in local city/town) & along with condition assessment techniques & methods.

Suggested Book(s):

1. Feilden, Bernard M. and Jokilehto, Jukka. Management Guidelines for World Cultural Heritage Sites. Rome: ICCROM, 1998.
2. Tandon, Rajeshwari, editor. A Case for National Policy for Heritage Conservation & Management. New Delhi: INTACH, August 2002.
3. Feilden, Bernard. Guidelines for Conservation: A Technical Manual. New Delhi: Indian National Trust for Art and Cultural Heritage (INTACH), 1989.
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2. <https://www.youtube.com/channel/UCtuLFq-CbRfSQZlrKDLo-Sg/videos?app=desktop>