



*Your Dreams Our Goal*  
**POORNIMA**  
**UNIVERSITY**

Member of Association of Indian Universities & Approved by UGC (Govt. of India) under 2(f) & 12(B)

# FACULTY OF DESIGN AND ARTS

DEPARTMENT OF INTERIOR DESIGN



## SCHEME & SYLLABUS BOOKLET

# **SCHEME & SYLLABUS**

## **BATCH: 2022-26**



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**Disclaimer:** The scheme, syllabus and other materials published in this booklet may be changed or modified as per the requirement after approval of competent authority. The decision taken by the management of Poornima University will be final and abiding to all.

## Student Details

Name of Student:		
Name of Program:		
Semester:	Year:	Batch:
Faculty of:		



# *Your Dreams Our Goal* POORNIMA UNIVERSITY

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## VISION

To create knowledge based society with scientific temper, team spirit and dignity of labor to face global competitive challenges.

## MISSION

To evolve and develop skill based systems for effective delivery of knowledge so as to equip young professionals with dedication and commitment to excellence in all spheres of life.

## QUALITY POLICY

To provide Quality Education through Faculty development, updating of facilities and continual improvement meeting University norms and keeping stake holders satisfied.



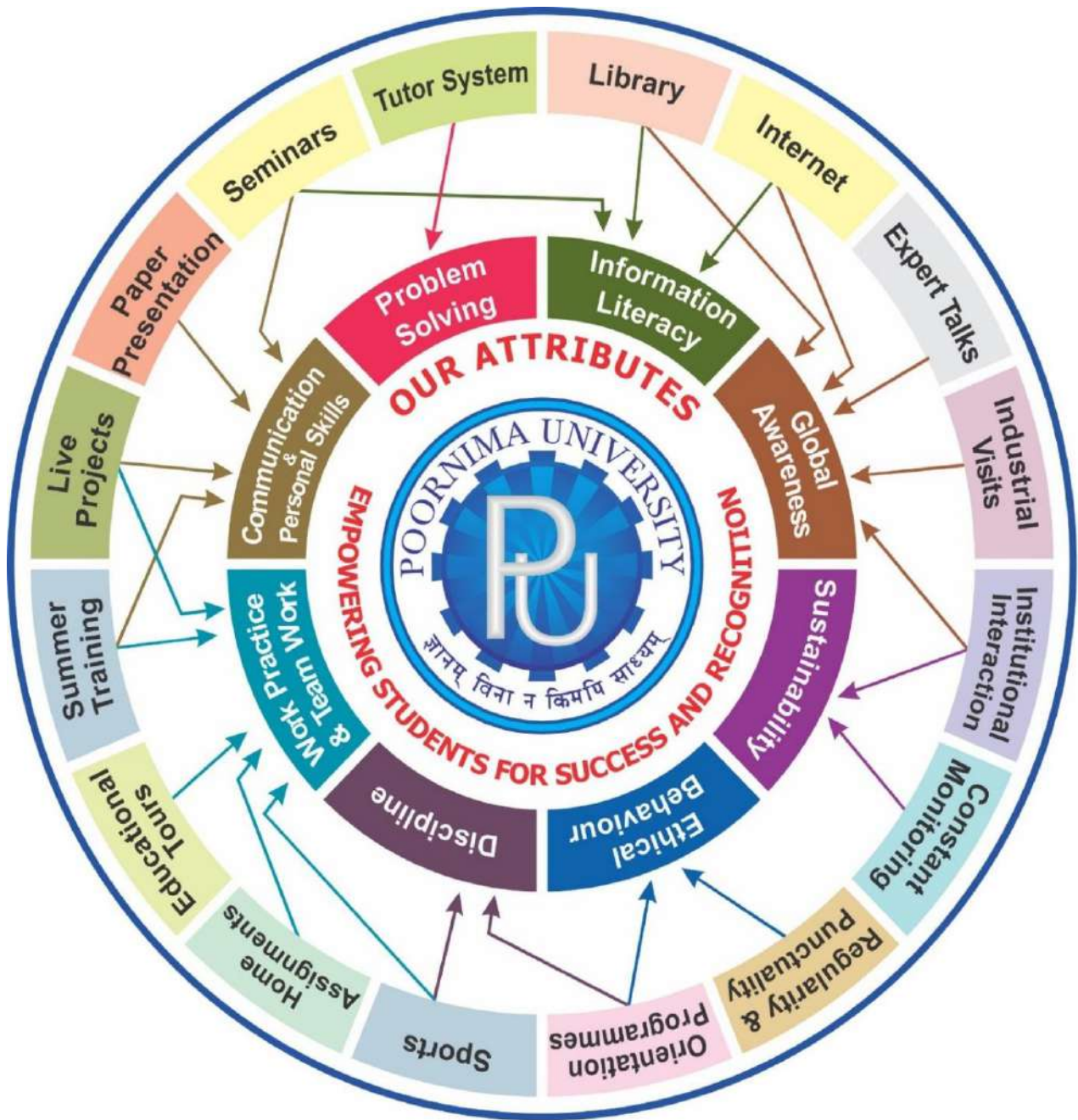
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## Knowledge wheel

At Poornima, the academic atmosphere is a rare blend of modern technical as well as soft skills and traditional systems of learning processes.



## **About Program and Program Outcomes (PO):**

**Title of the Programme:** Bachelor of Interior Design (B.Des.ID)

**Nature of the Program:** B.Des.ID. is a four-year full-time Programme.

### **Program Outcomes (PO) :**

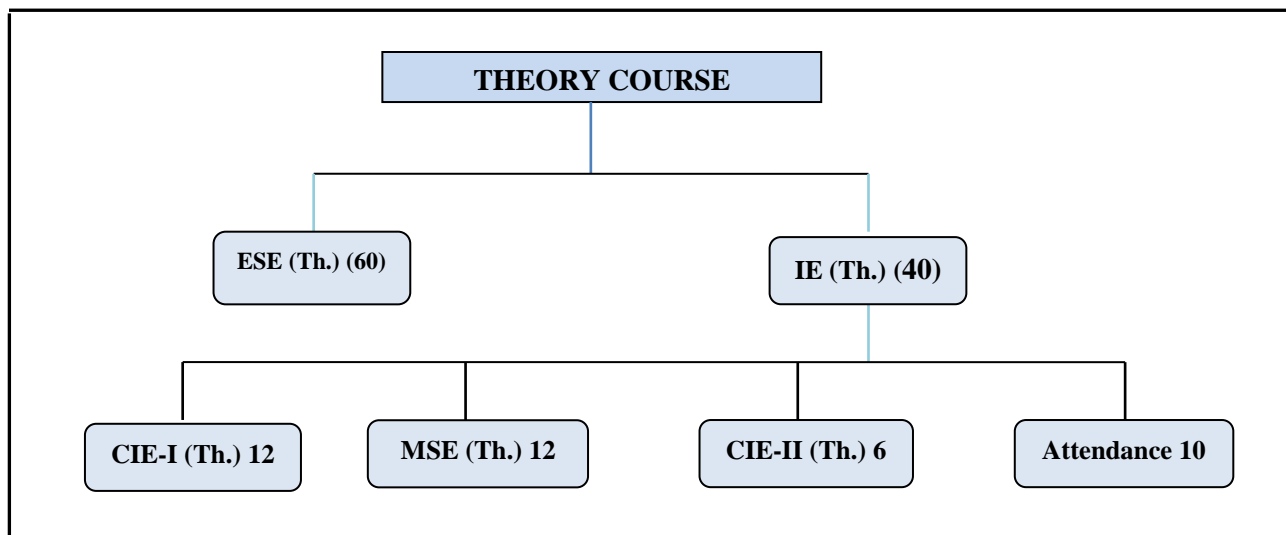
Interior Design Graduates will be able to do:

1. **Design Knowledge:** Apply the knowledge of design fundamentals, and a specialization to the solution of complex design problems.
2. **Problem analysis:** Identify, formulate, research literature, and analyze complex design problems reaching substantiated conclusions using elements and principles of design.
3. **Design/Development of solutions:** Design solutions for complex problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. **Conduct Investigations of Complex Problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern designing and IT tools including prediction and modeling to complex designing activities with an understanding of the limitations.
6. **The Designer 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 design practice.
7. **Environment and Sustainability:** Understand the impact of the professional designing solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the designing practice.
9. **Individual and teamwork:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **Communication:** Communicate effectively on complex design activities with the design 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.
11. **Project Management and Finance:** Demonstrate knowledge and understanding of the design and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. **Life-long learning:** Recognize the need for and have the preparation and ability to engage in independent and life- long learning in the broadest context of technological change

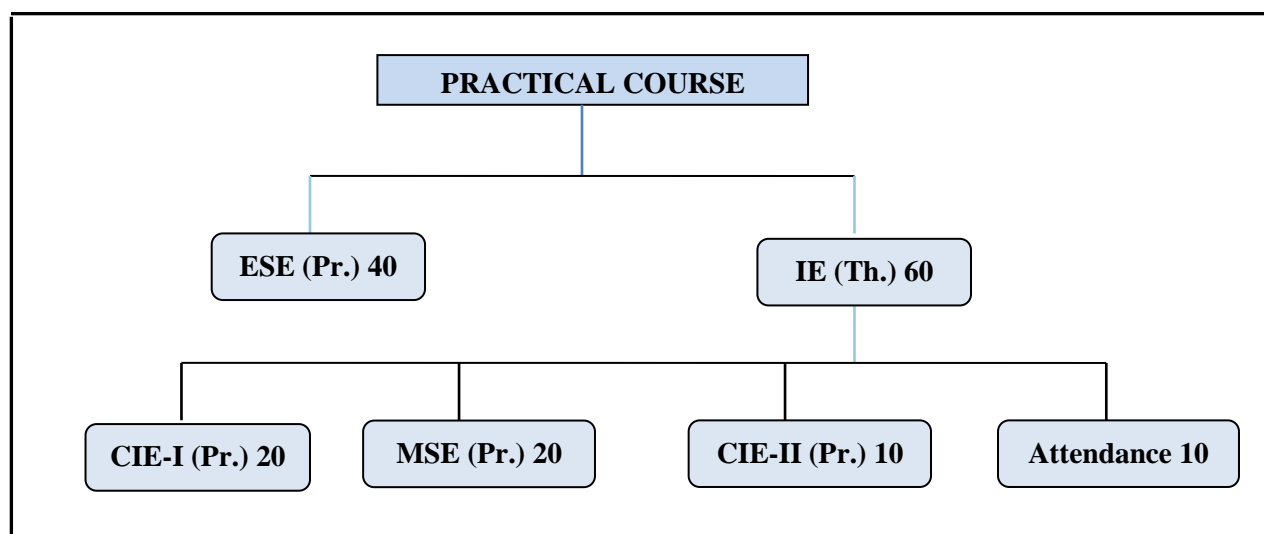


## Examination System:

### A. Marks Distribution of Theory Course:



### B. Marks Distribution of Practical Course :



**Th.:** Theory, **Pr. :** Practical, **ESE:** End Semester Examination, **MSE:** Mid Semester Examination, **CIE:** Continuous Internal Evaluation.



## Marks Distribution of Attendance:

Guidelines for Marks Distribution of Attendance Component		
S No.	Total Course Attendance (TCA) range in Percentage	Marks allotted (out of 10)
1	$95\% \leq \text{TCA}$	10
2	$90\% \leq \text{TCA} < 95\%$	9
3	$85\% \leq \text{TCA} < 90\%$	8
4	$80\% \leq \text{TCA} < 85\%$	7
5	$70\% \leq \text{TCA} < 80\%$	6
6	$60\% \leq \text{TCA} < 70\%$	5
7	$50\% \leq \text{TCA} < 60\%$	4
8	$40\% \leq \text{TCA} < 50\%$	3
9	$30\% \leq \text{TCA} < 40\%$	2
10	$20\% \leq \text{TCA} < 30\%$	1
11	$\text{TCA} < 20\%$	0

## CO Wise Marks Distribution:

	Theory Subject		Practical/ Studio Subject	
	Maximum Marks	CO to be Covered	CO to be Covered	Maximum Marks
CIE-I (Class Test)	12 ( 6 + 6)	1 & 2	1 & 2	20 (10 + 10)
MSE	12 ( 6 + 6)	3 & 4	3 & 4	20 (10 + 10)
CIE-II (Activity/ Assignment )	6 (6)	5	5	10 (10)
Attendance	10	-	-	10
ESE	60	-	-	40
TOTAL	100	-	-	100

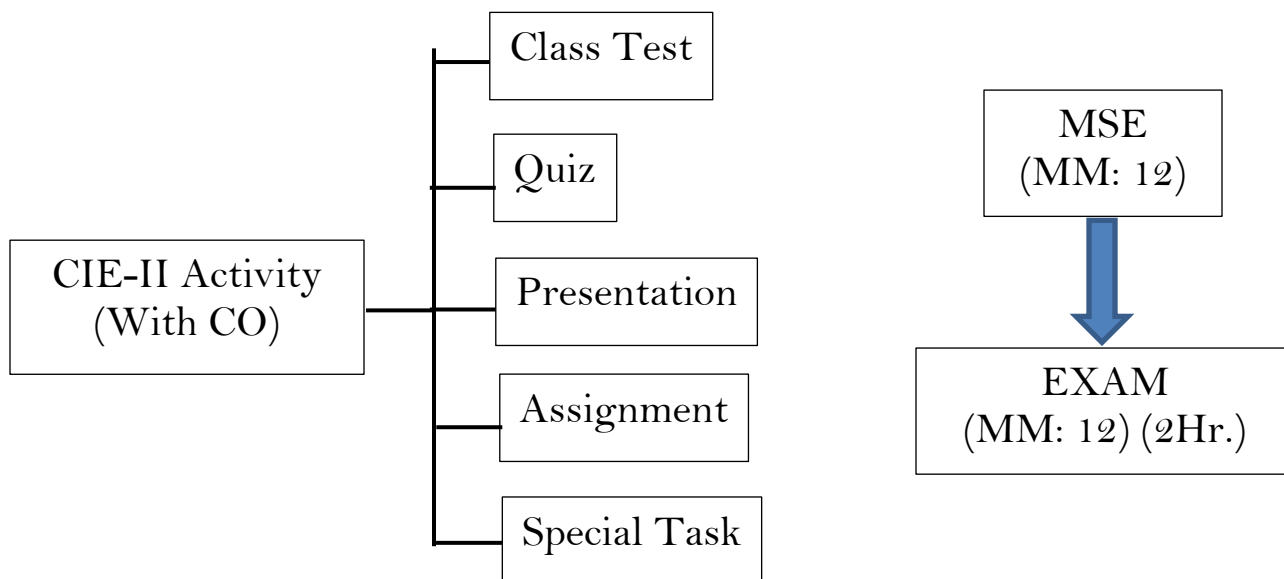




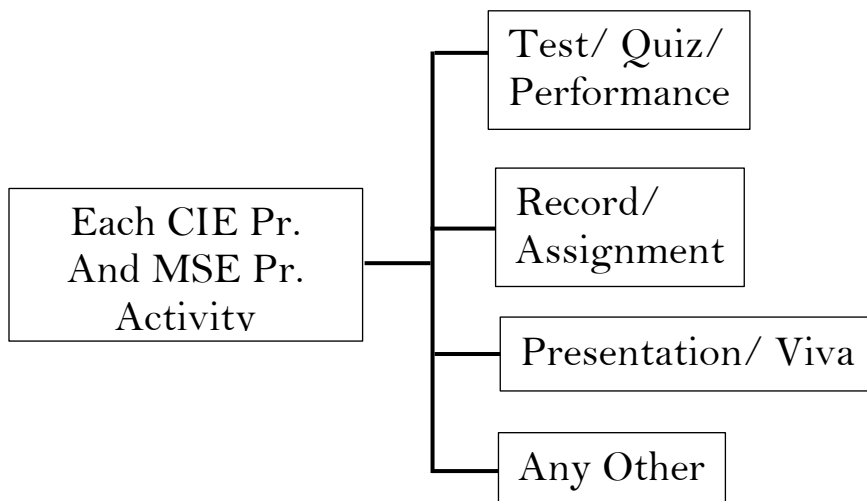
**Minimum Passing Percentage in All Exams:**

S. No.	Program	Minimum Passing Percentage in All Exam	
		ESE Component	Total Component
1	Course Work for Ph. D Registration	-----	50 %
2	B. Arch.	45 %	50 %
3	MBA, MHA, MPH, MCA, M. Tech., M. Plan. and M. Des.	40 %	40 %
4	B. Tech., B. Des., BCA, B.Sc., BVA, B. Voc., BBA, B.Com., B.A. and Diploma	35 %	40 %
5	B. Sc. (Hospitality & Hotel Administration)	35 %	40 % (Theory) & 50 % (Practical)

**Break-up of Internal Exam (Theory):**



**Break-up of Internal Exam (Practical):**



**Assessment & Grade Point Average: SGPA, CGPA:**

**SGPA Calculation**

$$SGPA = \frac{C_1G_1 + C_2G_2 + \dots + C_nG_n}{C_1 + C_2 + \dots + C_n}$$

$SGPA = \frac{\sum_i C_i \times G_i}{\sum_i C_i}$	<p>Where ( as per teaching Scheme &amp; Syllabus) :</p> <p>C<sub>i</sub> is the number of Credits of Courses i,</p> <p>G<sub>i</sub> is the Grade Point for the Course i and i = 1, 2.....n</p> <p>n = number of courses in a programme in the Semester</p>
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**CGPA Calculation**

$CGPA = \frac{\sum_i C_i \times G_i}{\sum_i C_i}$	<p>Where ( as per teaching Scheme &amp; Syllabus) :</p> <p>C<sub>i</sub> is the number of Credits of Courses i,</p> <p>G<sub>i</sub> is the Grade Point for the Course i and i = 1, 2.....n</p> <p>n = number of courses in a programme of all the Semester up to which CGPA is computed.</p>
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$$CGPA = \frac{C_1G_1 + C_2G_2 + \dots + C_nG_n}{C_1 + C_2 + \dots + C_n}$$

## Grading Table:

**Grading Table-A: For B.Arch. and course work for Ph.D. Registration**

Academic Performance	Grade	Grade Point	Marks Range ( in %)
Outstanding	A+	10	$90 \leq x \leq 100$
Excellent	A	9	$80 \leq x < 90$
Very good	B+	8	$70 \leq x < 80$
Good	B	7	$60 \leq x < 70$
Average	C	6	$50 \leq x < 60$
Fail	F	0	$x < 50$

**Grading Table-B: For all courses except B.Arch. and course work for Ph.D. Registration**

Academic Performance	Grade	Grade Point	Marks Range ( in %)
Outstanding	A+	10	$90 \leq x \leq 100$
Excellent	A	9	$80 \leq x < 90$
Very good	B+	8	$70 \leq x < 80$
Good	B	7	$60 \leq x < 70$
Average	C	6	$50 \leq x < 60$
Satisfactory	D	5	$40 \leq x < 50$
Fail	F	0	$x < 40$

Calculation of  
*SGPA*

$$SGPA = \frac{\sum C_i \times G_i}{\sum C_i}$$

$$SGPA = \frac{C_1G_1 + C_2G_2 + \dots + C_nG_n}{C_1 + C_2 + \dots + C_n}$$

Calculation of  
*CGPA*

$$CGPA = \frac{\sum C_i \times G_i}{\sum C_i}$$

$$CGPA = \frac{C_1G_1 + C_2G_2 + \dots + C_nG_n}{C_1 + C_2 + \dots + C_n}$$

where (as per teaching scheme & syllabus):  $C_i$  is the number of credits of subject  $i$ ,  $G_i$  is the Grade Point for the subject  $i$  and  $i = 1$  to  $n$ ,  $n$  = number of subjects in a course in the semester

## Award of Class:

CGPA	Equivalent Division
$7.50 \leq CGPA$	First Division with Distinction
$6.50 \leq CGPA < 7.50$	First Division
$5.50 \leq CGPA < 6.50$	Second Division
$4.50 \leq CGPA < 5.50$	Pass Class

The multiplication factor for conversion of CGPA to percentage is Equivalent % of Marks =  $(CGPA - 0.5) \times 10$ .

For Example if CGPA = 5.5 then % is  $(5.5 - 0.5) \times 10 = 50\%$ .



## **Guidelines for MOOC COURSES:**

1. Applicable from the session 2020 – 21 onwards, for students aspiring for HONOURS Degree.
2. The UGC has issued UGC (Credit Framework for Online Learning Courses) Regulation, 2016. These shall apply to all universities established or incorporated by or under a Central Act, a Provincial Act, or a State/Union Territory Act and all institutions recognized by or affiliated to such Universities and all institutions deemed to be universities under Section 3 of the UGC Act, 1956.
3. All India Council for Technical Education (AICTE) has introduced Model Curriculum for Bachelor programs of 4 years/ 3 Years, and additional credits will be required to be done for the degree of Bachelor program with Honours. These additional credits will have to be acquired with online courses (MOOCs) as per AICTE.
4. This creates an excellent opportunity for students to acquire the necessary skill set for employability through massive online courses where the rare expertise of world famous experts from academics and industry are available.
5. Students are required to complete additional credits through MOOCs within 4 years/ 3years of time (whatever be applicable time for the completion of registered program) so as to become eligible for Honours degree as per norms.
6. It is necessary to complete minimum MOOCs credit course as mentioned below for becoming eligible for the Honours degree in the registered program.
7. MOOC Course Credits shall be calculated as per details given below:
8. Student are required to give the prior information about MOOCs courses to his respective HOD and COE, in which he/she wants to register for online certification.
9. After getting permission from respective HOD, a student can register for the MOOC certification courses.
10. After successful completion of the said MOOC course, the student shall submit the certificate of completion to the respective department. If he/ she fails to provide the certificates of MOOC courses before last teaching day of the semester then these certificates will not be considered later.

**Required credits for Honours :**

S.No	Program Duration	Required credits for Honours
1.	2- Year	10- Credits
2.	3- Year	15- Credits
3.	4-Year	20- Credits

S. No	NPTEL/ SWAYAM Course duration (in weeks)	Equivalent Credits
1	4	2
2	8	3
3	12	4

**Attached Items:**

Open Elective Booklet	Annexure-1
Soft Skills Booklet	Annexure-2
Value Added Course Booklet	Annexure-3



**POORNIMA UNIVERSITY**

**Faculty of Design and Arts**

**Department of Interior Design**

**Batch: 2022-26**

Name of Program

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

**Teaching Scheme for Year I Semester I**

Course Code	Course Name	Teaching Scheme (Hrs. per Week)			Marks Distribution			Credits
		Lecture (L)	Tutorial (T)	Practical (P)	IE	ESE	Total	
<b>A.</b>	<b>University Core Courses</b>							
<b>BULCHU1101</b>	Environmental Studies	2	-	-	40	60	100	<b>2</b>
<b>A.2</b>	<b>Practical</b>							
	NIL							
<b>B.</b>	<b>Department Core Courses</b>							
<b>B.1</b>	<b>Theory</b>							
<b>BIDCID1101</b>	History of world Art & Culture	2	0	0	40	60	100	<b>2</b>
<b>BIDCID1102</b>	Art & Design Fundamentals – I	2	0	0	40	60	100	<b>2</b>
<b>B.2</b>	<b>Practical</b>							
<b>BIDCID1201</b>	Basic Design & Concepts	0	2	4	60	40	100	<b>4</b>
<b>BIDCID1202</b>	Drawing, Color Study & Graphics – I	0	2	2	60	40	100	<b>3</b>
<b>BIDCID1203</b>	Material Exploration Design & Model making – I	0	2	2	60	40	100	<b>3</b>
<b>BIDCID1204</b>	Interior Geometry and Drawing	0	2	2	60	40	100	<b>3</b>
<b>BIDCID1205</b>	Basic Computers skills – I	0	1	2	60	40	100	<b>2</b>
<b>C.</b>	<b>Department Elective</b>							
	N/A							
<b>D.</b>	<b>Open Elective</b>							
	N/A							
<b>E.</b>	<b>Humanities and Social Sciences including Management courses (AECC)</b>							
<b>BULCHU1201</b>	Foundation English	0	0	2	60	40	100	<b>1</b>
<b>BULCHU1202</b>	Communication skills-I	0	0	2	60	40	100	<b>1</b>
<b>F.</b>	<b>Skill Enhancement Courses (SEC) OR Project work, Seminar and Internship in Industry or Elsewhere</b>							
	N/A							
<b>G.</b>	<b>Discipline, Value Added Courses &amp; Social Outreach</b>							
<b>BIDCID1601</b>	Talent Enrichment Program(TEP)	-	-	2	50	-	50	<b>1</b>
	Library/MOOC/Online Certification Courses							
	Non-Syllabus Project/Industrial Visit/CRT							
	<b>Total</b>	<b>06</b>	<b>09</b>	<b>18</b>				<b>24</b>
	<b>Total Teaching Hours</b>		<b>33</b>					



Faculty of Design and Arts								
Department of Interior Design								
Batch: 2022-26								
Name of Program								
B. Des. (Interior Design)								
Teaching Scheme for Year I Semester II								
Course Code	Course Name	Teaching Scheme (Hrs. per Week)			Marks Distribution			Credits
		Lecture (L)	Tutorial (T)	Practical (P)	IE	ESE	Total	
<b>A.</b>	<b>University Core Courses</b>							
<b>A.2</b>	<b>Practical</b>							
	NIL							
<b>B.</b>	<b>Department Core Courses</b>							
<b>B.1</b>	<b>Theory</b>							
<b>BIDCID2101</b>	History of Interior Design – I	2	0	0	40	60	100	<b>2</b>
<b>BIDCID2102</b>	Design Calculations	2	0	0	40	60	100	<b>2</b>
<b>B.2</b>	<b>Practical</b>							
<b>BIDCID2201</b>	Interior Design Studio – I and Measure Drawing	0	4	4	60	40	100	<b>6</b>
<b>BIDCID2202</b>	Drawing, Color Study & Graphics – II	0	2	2	60	40	100	<b>3</b>
<b>BIDCID2203</b>	Material Exploration Design and Model Making – II	0	2	2	60	40	100	<b>3</b>
<b>BIDCID2204</b>	Carpentry & Metal Soldering	0	1	2	60	40	100	<b>2</b>
<b>BIDCID2205</b>	Basic Computers & Presentation skills – II	0	1	2	60	40	100	<b>2</b>
<b>C.</b>	<b>Department Elective</b>							
	N/A							
<b>D.</b>	<b>Open Elective</b>							
	As per Annexure 1	2	0	0	40	60	100	<b>2</b>
<b>E.</b>	<b>Humanities and Social Sciences including Management courses (AECC)</b>							
<b>BULCHU2201</b>	Language Lab	0	0	2	60	40	100	<b>1</b>
<b>BULCHU2202</b>	Communication Skills – II	0	0	2	60	40	100	<b>1</b>
<b>F.</b>	<b>Skill Enhancement Courses (SEC) OR Project work, Seminar and Internship in Industry or Elsewhere</b>							
	N/A							
<b>G.</b>	<b>Discipline, Value Added Courses &amp; Social Outreach</b>							
<b>BIDCID2601</b>	Talent Enrichment Program(TEP)							
	Library/MOOC/Online Certification Courses	-	-	1	50	-	50	<b>1</b>
	Non-Syllabus Project/Industrial Visit/CRT							
	<b>Total</b>	<b>06</b>	<b>10</b>	<b>17</b>				<b>25</b>
	<b>Total Teaching Hours</b>	<b>33</b>						



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**Faculty of Design and Arts**

**Department of Interior Design**

**Batch: 2022-26**

**Name of Program**

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

**Teaching Scheme for Year II Semester III**

Course Code	Course Name	Teaching Scheme (Hrs. per Week)			Marks Distribution			Credits
		Lecture (L)	Tutorial (T)	Practical (P)	IE	ESE	Total	
<b>A.</b>	<b>University Core Courses</b>							
<b>A.2</b>	<b>Practical</b>							
	NIL							
<b>B.</b>	<b>Department Core Courses</b>							
<b>B.1</b>	<b>Theory</b>							
<b>BIDCID3101</b>	History of Interior Design – II	2	0	0	40	60	100	<b>2</b>
<b>BIDCID3102</b>	Material Study – I	2	0	0	40	60	100	<b>2</b>
<b>B.2</b>	<b>Practical</b>							
<b>BIDCID3201</b>	Interior Design Studio – II	0	4	4	60	40	100	<b>6</b>
<b>BIDCID3202</b>	Drawing, Color Study & Graphics – III	0	2	2	60	40	100	<b>3</b>
<b>BIDCID3203</b>	Furniture design – I	0	2	2	60	40	100	<b>3</b>
<b>BIDCID3204</b>	Building Services – I	0	1	2	60	40	100	<b>2</b>
<b>BIDCID3205</b>	Computer Applications – III	0	1	2	60	40	100	<b>2</b>
<b>BIDCID3206</b>	Building Construction – I	0	1	2	60	40	100	<b>2</b>
<b>C.</b>	<b>Department Elective</b>							
	N/A							
<b>D.</b>	<b>Open Elective</b>							
	As per Annexure 1	2	0	0	40	60	100	<b>2</b>
<b>E.</b>	<b>Humanities and Social Sciences including Management courses (AECC)</b>							
<b>BULCHU3201</b>	Human Value and Professional Ethics	0	0	2	60	40	100	<b>1</b>
<b>F.</b>	<b>Skill Enhancement Courses (SEC) OR Project work, Seminar and Internship in Industry or Elsewhere</b>							
	N/A							
<b>G.</b>	<b>Discipline, Value Added Courses &amp; Social Outreach</b>							
<b>BIDCID3601</b>	Talent Enrichment Program(TEP)	-	-	-	50	-	50	<b>1</b>
	Library/MOOC/Online Certification Courses							
	Non-Syllabus Project/Industrial Visit/CRT							
	<b>Total</b>	<b>06</b>	<b>11</b>	<b>16</b>				
	<b>Total Teaching Hours</b>	<b>33</b>						<b>26</b>





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**Department of Interior Design**

**Batch: 2022-26**

**Name of Program**

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

**Teaching Scheme for Year II Semester IV**

Course Code	Course Name	Teaching Scheme (Hrs. per Week)			Marks Distribution			Credits
		Lecture (L)	Tutorial (T)	Practical (P)	IE	ESE	Total	
<b>A.</b>	<b>University Core Courses</b>							
<b>A.2</b>	<b>Practical</b>							
	NIL							
<b>B.</b>	<b>Department Core Courses</b>							
<b>B.1</b>	<b>Theory</b>							
<b>BIDCID4101</b>	Theory of Interior Furnishings	2	0	0	40	60	100	<b>2</b>
<b>BIDCID4102</b>	Material Study – II	2	0	0	40	60	100	<b>2</b>
<b>B.2</b>	<b>Practical</b>							
<b>BIDCID4201</b>	Interior Design Studio – III	0	4	4	60	40	100	<b>6</b>
<b>BIDCID4202</b>	Furniture design – II	0	2	2	60	40	100	<b>3</b>
<b>BIDCID4203</b>	Building Services – II	0	1	2	60	40	100	<b>2</b>
<b>BIDCID4204</b>	Computer Applications – IV	0	1	2	60	40	100	<b>2</b>
<b>BIDCID4205</b>	Building Construction – II	0	1	2	60	40	100	<b>2</b>
<b>C.</b>	<b>Department Elective</b>							
<b>BIDEID4211</b>	Lighting and color in Interiors	0	1	2	60	40	100	<b>2</b>
<b>BIDEID4212</b>	Environmental control in Interiors							
<b>BIDEID4213</b>	Interior Design Photography							
<b>D.</b>	<b>Open Elective</b>							
	As per Annexure 1	2	0	0	40	60	100	<b>2</b>
<b>E.</b>	<b>Humanities and Social Sciences including Management courses (AECC)</b>							
<b>BULCHU4201</b>	Leadership and Management Skills	0	0	2	60	40	100	<b>1</b>
<b>F.</b>	<b>Skill Enhancement Courses (SEC) OR Project work, Seminar and Internship in Industry or Elsewhere</b>							
	N/A							
<b>G.</b>	<b>Discipline, Value Added Courses &amp; Social Outreach</b>							
<b>BIDCID4601</b>	Talent Enrichment Program(TEP)	-	-	1	50	-	50	<b>1</b>
	Library/MOOC/Online Certification Courses							
	Non-Syllabus Project/Industrial Visit/CRT							
	<b>Total</b>	<b>06</b>	<b>10</b>	<b>17</b>				
	<b>Total Teaching Hours</b>	<b>33</b>						<b>25</b>



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**Faculty of Design and Arts**

**Department of Interior Design**

**Batch: 2022-26**

**Name of Program**

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

**Teaching Scheme for Year III Semester V**

Course Code	Course Name	Teaching Scheme (Hrs. per Week)			Marks Distribution			Credits
		Lecture (L)	Tutorial (T)	Practical (P)	IE	ESE	Total	
<b>A.</b>	<b>University Core Courses</b>							
<b>A.2</b>	<b>Practical</b>							
	NIL							
<b>B.</b>	<b>Department Core Courses</b>							
<b>B.1</b>	<b>Theory</b>							
<b>BIDCID5101</b>	Interior Estimation & Costing	2	0	0	40	60	100	<b>2</b>
<b>BIDCID5102</b>	Material Study – III	2	0	0	40	60	100	<b>2</b>
<b>BIDCID5103</b>	Basics of Vaastu	2	0	0	40	60	100	<b>2</b>
<b>B.2</b>	<b>Practical</b>							
<b>BIDCID5201</b>	Interior Design Studio – V	0	4	4	60	40	100	<b>6</b>
<b>BIDCID5202</b>	Working Drawing – I	0	2	2	60	40	100	<b>3</b>
<b>BIDCID5203</b>	Building Services – III	0	1	2	60	40	100	<b>2</b>
<b>BIDCID5204</b>	Computer Applications – V	0	1	2	60	40	100	<b>2</b>
<b>C.</b>	<b>Department Elective</b>							
<b>BIDEID5211</b>	Project Management							
<b>BIDEID5212</b>	Use of Social Media Marketing	0	1	2	60	40	100	<b>2</b>
<b>BIDEID5213</b>	Selling and Negotiating Skills							
<b>D.</b>	<b>Open Elective</b>							
	As per Annexure 1	2	0	0	40	60	100	<b>2</b>
<b>E.</b>	<b>Humanities and Social Sciences including Management courses (AECC)</b>							
<b>BULCHU5201</b>	Professionals Skills-I	0	0	2	60	40	100	<b>1</b>
<b>F.</b>	<b>Skill Enhancement Courses (SEC) OR Project work, Seminar and Internship in Industry or Elsewhere</b>							
	N/A							
<b>G.</b>	<b>Discipline, Value Added Courses &amp; Social Outreach</b>							
<b>BIDCID5601</b>	Talent Enrichment Program(TEP)							
	Library/MOOC/Online Certification Courses	-	-	2	50	-	50	<b>1</b>
	Non-Syllabus Project/Industrial Visit/CRT							
	<b>Total</b>	<b>08</b>	<b>09</b>	<b>16</b>				
	<b>Total Teaching Hours</b>		<b>33</b>					<b>25</b>



**POORNIMA UNIVERSITY**

**Faculty of Design and Arts**

**Department of Interior Design**

**Batch: 2022-26**

**Name of Program**

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

**Teaching Scheme for Year III Semester VI**

Course Code	Course Name	Teaching Scheme (Hrs. per Week)			Marks Distribution			Credits
		Lecture (L)	Tutorial (T)	Practical (P)	IE	ESE	Total	
<b>A.</b>	<b>University Core Courses</b>							
<b>A.2</b>	<b>Practical</b>							
	NIL							
<b>B.</b>	<b>Department Core Courses</b>							
<b>B.1</b>	<b>Theory</b>							
<b>BIDCID6101</b>	Advance Materials	2	0	0	40	60	100	<b>2</b>
<b>B.2</b>	<b>Practical</b>							
<b>BIDCID6201</b>	Interior Design Studio – V	0	4	4	60	40	100	<b>6</b>
<b>BIDCID6202</b>	Working Drawing – II	0	2	2	60	40	100	<b>3</b>
<b>BIDCID6203</b>	Research for Interiors & Dissertation compilation	0	2	2	40	60	100	<b>3</b>
<b>BIDCID6204</b>	Interior Landscape design	0	2	2	60	40	100	<b>3</b>
<b>BIDCID6205</b>	Portfolio Development & Presentation	0	1	2	60	40	100	<b>2</b>
<b>C.</b>	<b>Department Elective</b>							
<b>BIDEID6211</b>	Heritage Interiors							
<b>BIDEID6212</b>	Product Design	0	1	2	60	40	100	<b>2</b>
<b>BIDEID6213</b>	Sustainable development In Interiors							
<b>D.</b>	<b>Open Elective</b>							
	As per Annexure 1	2	0	0	40	60	100	<b>2</b>
<b>E.</b>	<b>Humanities and Social Sciences including Management courses (AECC)</b>							
<b>BULCHU6201</b>	Professionals Skills-II	0	0	2	60	40	100	<b>1</b>
<b>F.</b>	<b>Skill Enhancement Courses (SEC) OR Project work, Seminar and Internship in Industry or Elsewhere</b>							
	N/A							
<b>G.</b>	<b>Discipline, Value Added Courses &amp; Social Outreach</b>							
<b>BIDCID6601</b>	Talent Enrichment Program(TEP)							
	Library/MOOC/Online Certification Courses	-	-	1	50	-	50	<b>1</b>
	Non-Syllabus Project/Industrial Visit/CRT							
	<b>Total</b>	<b>04</b>	<b>12</b>	<b>17</b>				
	<b>Total Teaching Hours</b>		<b>33</b>					<b>25</b>



**POORNIMA UNIVERSITY**

**Faculty of Design and Arts**

**Department of Interior Design**

**Batch: 2022-26**

**Name of Program**

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

**Teaching Scheme for Year IV Semester VII**

Course Code	Course Name	Teaching Scheme (Hrs. per Week)			Marks Distribution			Credits
		Lecture (L)	Tutorial (T)	Practical (P)	IE	ESE	Total	
<b>A.</b>	<b>University Core Courses</b>							
<b>A.2</b>	<b>Practical</b>							
	N/A							
<b>B.</b>	<b>Department Core Courses</b>							
<b>B.1</b>	<b>Theory</b>							
	N/A							
<b>B.2</b>	<b>Practical</b>							
<b>BIDCID7501</b>	Practical Training (Internship) for 140 Working Days & its Seminar.	0	0	0	60	40	100	<b>6</b>
<b>C.</b>	<b>Department Elective</b>							
	N/A							
<b>D.</b>	<b>Open Elective</b>							
	N/A							
<b>E.</b>	<b>Humanities and Social Sciences including Management courses (AECC)</b>							
	N/A							
<b>F.</b>	<b>Skill Enhancement Courses (SEC) OR Project work, Seminar and Internship in Industry or Elsewhere</b>							
	N/A							
<b>G.</b>	<b>Discipline, Value Added Courses &amp; Social Outreach</b>							
<b>BIDCID7601</b>	Talent Enrichment Program (TEP)							
	Library/MOOC/Online Certification Courses	-	-	-	50	-	50	<b>1</b>
	Non-Syllabus Project/Industrial Visit/CRT							
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>				<b>07</b>
	<b>Total Teaching Hours</b>		<b>0</b>					



**POORNIMA UNIVERSITY**

**Faculty of Design and Arts**

**Department of Interior Design**

**Batch: 2022-26**

**Name of Program**

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

**Teaching Scheme for Year IV Semester VIII**

Course Code	Course Name	Teaching Scheme (Hrs. per Week)			Marks Distribution			Credits
		Lecture (L)	Tutorial (T)	Practical (P)	IE	ESE	Total	
<b>A.</b>	<b>University Core Courses</b>							
<b>A.2</b>	<b>Practical</b>							
	NIL							
<b>B.</b>	<b>Department Core Courses</b>							
<b>B.1</b>	<b>Theory</b>							
<b>BIDCID8101</b>	Entrepreneurship skills for Interior Designers	2	0	0	60	40	100	2
<b>B.2</b>	<b>Practical</b>							
<b>BIDCID8201</b>	Thesis Design Project	0	2	20	60	40	100	12
<b>C.</b>	<b>Department Elective: Any One</b>							
	N/A							
<b>D.</b>	<b>Open Elective</b>							
	N/A							
<b>E.</b>	<b>Humanities and Social Sciences including Management courses (AECC)</b>							
	N/A							
<b>F.</b>	<b>Skill Enhancement Courses (SEC) OR Project work, Seminar and Internship in Industry or Elsewhere</b>							
	N/A							
<b>G.</b>	<b>Discipline, Value Added Courses &amp; Social Outreach</b>							
<b>BIDCID8601</b>	Talent Enrichment Program (TEP)							
	Library/MOOC/Online Certification Courses	-	-	4	50	-	50	1
	Non-Syllabus Project/Industrial Visit/CRT							
	<b>Total</b>	<b>02</b>	<b>02</b>	<b>24</b>				
	<b>Total Teaching Hours</b>		<b>28</b>					<b>15</b>



# SYLLABUS I Semester

**A. OBJECTIVE**

The objective of the course is:

- Study about the significance of our earth's environment & fundamentals of ecosystem are a very important aspect. This helps to inculcate awareness about the impact of human activities on environment and natural resources. It sensitizes students on the need for its management concept.

**B. COURSE OUTCOMES**

- CO1. To understand about the significance of our earth's environment.
- CO2. To apply the knowledge of the usage of natural resources, its management and its importance in real life for development.
- CO3. To analyze the components of various earth's ecosystems, its structure and functioning.
- CO4. To be able to evaluate the environment protection act and policies.
- CO5. To apply environment and ecology related policies with the Design and plan for a comprehensive sustainable development.

**C. OUTLINE OF THE COURSE**

Unit No.	Title of the unit	Time Required for the Unit (Hours)
1	Introduction to environmental studies	4
2	Ecosystems	6
3	Natural Resources: Renewable and Non-renewable Resources	8
4	Biodiversity and Conservation	6
5	Environmental Pollution and policies	8

**D. DETAILED SYLLABUS**

Unit	Contents
1.	<b>Introduction to environmental studies</b>
	<ul style="list-style-type: none"> <li>• Multidisciplinary nature of environmental studies; components of environment – atmosphere, hydrosphere, lithosphere and biosphere. Scope and importance; Concept of sustainability and sustainable development</li> </ul>

	<ul style="list-style-type: none"> <li>Look around the nature resulting in some everyday observation exercise.</li> </ul>
<b>2.</b>	<b>Ecosystems</b>
	<ul style="list-style-type: none"> <li>What is an ecosystem? Structure and function of ecosystem; Energy flow in an ecosystem: food chain, food web and ecological succession. Case studies of the following ecosystems:             <ol style="list-style-type: none"> <li>Forest ecosystem</li> <li>Grassland ecosystem</li> <li>Desert ecosystem</li> <li>Aquatic ecosystems (ponds, streams, lakes, rivers, oceans and ,estuaries)</li> </ol> </li> <li>Exercise based on unit</li> </ul>
<b>3.</b>	<b>Natural Resources: Renewable and Non-renewable Resources</b>
	<ul style="list-style-type: none"> <li>Land Resources and land use change; Land degradation, soil erosion and desertification. Deforestation: Causes and impacts due to mining, dam building on environment, forests, biodiversity and tribal populations.</li> <li>Water: Use and over-exploitation of surface and ground water, floods, droughts, conflicts over water (international &amp; interstate).</li> <li>Heating of earth and circulation of air; air mass formation and precipitation.</li> <li>Energy resources: Renewable and non-renewable energy sources, use of alternate energy sources, growing energy needs, case studies.</li> <li>Exercise on new and alternative sources of energy in architectural practices</li> </ul>
<b>4.</b>	<b>Biodiversity and Conservation</b>
	<ul style="list-style-type: none"> <li>Levels of biological diversity: genetic, species and ecosystem diversity; Biogeography zones of India; Biodiversity patterns and global biodiversity hot spots</li> <li>India as a mega-biodiversity nation; Endangered and endemic species of India</li> <li>Threats to biodiversity: habitat loss, poaching of wildlife, man wildlife conflicts, biological invasions; Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity. Ecosystem and biodiversity services: Ecological, economic, social, ethical, aesthetic and Informational value.</li> <li>Exercise on research studies/ papers on human impacts on environment.</li> </ul>
<b>5.</b>	<b>Environmental Pollution and policies</b>
	<ul style="list-style-type: none"> <li>Environmental pollution: types, causes, effects and controls; Air, water, soil, chemical and noise pollution</li> <li>Nuclear hazards and human health risks</li> <li>Solid waste management: Control measures of urban and industrial waste</li> <li>Pollution case studies. Various government policies to protect the</li> </ul>





	environment <ul style="list-style-type: none"> <li>• Exercise on research studies/ papers on waste management.</li> </ul>
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## **E. RECOMMENDED STUDY MATERIAL**

<b>Sr. No.</b>	<b>Book</b>	<b>Author</b>	<b>Edition</b>	<b>Publication</b>
1.	The Environment – Principles & Applications	Charis Park		
2.	Environment and Ecology	S. N. Pandey	2011	Ane Books Pvt. Ltd
3.	Ecology and economics: An approach to sustainable development	Sengupta	2003	

## **F. EVALUATION**

Continuous assessment of session work may consist of evaluation of individual's project work, power point presentations, assignments, Seminars and quiz etc.



**A. OBJECTIVE**

Introduction to the brief history of the concept of Art and its relevance in the society. Treating art as a visual language and evaluating in the context of religion, politics and trades throughout ages. Expression of religious beliefs through history; the impact of religions in the developments and changes in various cultures.

The objective of the course is:

- To introduce the historical and cultural contexts of interior design.
- To develop basic skills for research and written communication in presentation of structured and critical arguments.

**B. COURSE OUTCOME**

After studying this course you should be able to:

- CO1. Understand how does Trade and Commerce affects Art: Multi-cultures
- CO2. Be familiar with the specialized terminology and language of interior design.
- CO3. Understand basics tools for research documentation.
- CO5. General Knowledge about Religions over the world and their art practices
- CO5. Understand Chronological development of art in various regions

**C. OUTLINE OF THE COURSE**

Unit No.	Title of the unit	Time Required for the Unit (Hours)
1	History of Western Art	6
2	Industrial revolution	4
3	Impact of world war I	6
4	Impact of world war II	4
5	Art in east & Indus valley civilization.	4

**D. DETAILED SYLLABUS**

Unit	Contents
1.	<b>History of Western Art</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Introduction to History of Western Art from Prehistoric times till date.</li> <li>• Prehistory and ancient history background (eg. Palaeolithic, Neolithic, Metal Age, Greece and Etruria, Rome, Europe, art nouveau, art Deco etc.)</li> <li>• Conclusion and summary of unit</li> </ul>
2.	<b>Industrial revolution</b>

	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Introduction to Industrial Revolution and its effects on Western Art &amp; Culture.</li> <li>• What major influence did the Industrial Revolution have on art?</li> <li>• Conclusion and summary of unit</li> </ul>
<b>3.</b>	<b>Impact of world wars I</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Introduction to World War I and its effects on Western Art &amp; Culture (Art, Literature, Theatre, Art and Politics)</li> <li>• Conclusion and summary of unit</li> </ul>
<b>4.</b>	<b>Impact of world wars II</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Introduction to World War II and its effects on Western Art &amp; Culture (Movements in Twentieth-Century Art After World War II)</li> <li>• Conclusion and summary of unit</li> </ul>
<b>5.</b>	<b>Art in east &amp; Indus valley civilization.</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Introduction to the Art and Culture of Mesopotamia, Egypt, Jainism &amp; Buddhism and Indus Valley Civilization.</li> <li>• Conclusion and summary of unit</li> </ul>

### **E. RECOMMENDED STUDY MATERIAL**

<b>Sr.No.</b>	<b>Book</b>	<b>Author</b>	<b>Edition</b>	<b>Publication</b>
<b>1.</b>	Janson's History of Art: Western Tradition	Penelope, JE Davies, Walter B Denny, Frima Fox Hofrichter, Joseph F Jacobs	2006	Pearson Education Publication
<b>2.</b>	History of Art 'A students handbook'	Maria Pointon	1997	Routledge Publication
<b>3.</b>	Art History Aesthetics & Visual culture	Caroline Van Eck & Edward Winters	2005	Ashgate Publishing Ltd.
<b>4.</b>	A history of visual culture: Western civilization from 18 <sup>th</sup> - 21 <sup>st</sup> cent,	Jan Kromm & Susan Benforado Bakewell	2009	Oxfordshire, UK Berg Publishers



	<ul style="list-style-type: none"> <li>● <a href="http://www.boloji.com/index.cfm?md=Content&amp;sd=Articles&amp;ArticleID=6714">http://www.boloji.com/index.cfm?md=Content&amp;sd=Articles&amp;ArticleID=6714</a></li> <li>● <a href="http://www.infoplease.com/encyclopedia/entertainment/indianart-architecture-indus-valley-civilization.html">http://www.infoplease.com/encyclopedia/entertainment/indianart-architecture-indus-valley-civilization.html</a></li> <li>● <a href="http://www.infoplease.com/encyclopedia/entertainment/indianart-architecture-indus-valley-civilization.html">http://www.infoplease.com/encyclopedia/entertainment/indianart-architecture-indus-valley-civilization.html</a></li> <li>● <a href="http://www.concisewesternciv.com/arth/ar2.html">http://www.concisewesternciv.com/arth/ar2.html</a></li> </ul>
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**F. EVALUATION**

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



**A. OBJECTIVE**

The objective of the course is:

- To understand and apply the different elements of design for better design learning.
- To improve and optimize the design journey.
- To understand & implement different frames best suitable for a balanced composition.
- To understand the application of RGB, CMYK, color wheel, etc.
- To understand the importance of color in our life.

**B. COURSE OUTCOME**

After studying this course you should be able to:

- CO1. Understand the elements & principles of design and also be able to differentiate between them.
- CO2. Create something which is aesthetically pleasing and optimizes the user experience. These principles will help the student to improve their design journey.
- CO3. Understand the importance of a good & balanced composition. Their understanding of the other courses will be put in together in the best possible way to see the whole composition.
- CO4. Develop a better understanding towards RGB, CMYK, color wheel, etc.
- CO5. Understand the importance of color in their life, culture, nature and our surroundings.

**C. OUTLINE OF THE COURSE**

Unit No.	Title of the unit	Time Required for the Unit (Hours)
1	Elements of design	6
2	Principles of design	4
3	Study of form	6
4	Study of form and space	4
5	Anthropometrics	4

**D. DETAILED SYLLABUS**

Unit	Contents
1.	<b>Elements of Design</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Elements of Design- Dot, Line, Shape, Form, Texture, Light, Depth, Pattern etc.</li> <li>• Hands on exercise for understanding elements of design.</li> <li>• Conclusion and summary of unit</li> </ul>

<b>2.</b>	<b>Principles of Design</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Principles of design –Contrast, Harmony, Rhythm, Balance, Unity, Proportion, Scale etc.</li> <li>• Hands on exercise for understanding principles of design.</li> <li>• Conclusion and summary of unit</li> </ul>
<b>3.</b>	<b>Composition- 2D</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Understanding shapes and forms, basic geometry in shapes.</li> <li>• 2D composition of geometrical shapes, free hand doodling and composition.</li> <li>• Conclusion and summary of unit</li> </ul>
<b>4.</b>	<b>Color Theory</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Color and nature</li> <li>• Color System (RGB, CMYK, and PANTONE), Color Wheel (primary, secondary and tertiary colors), etc.</li> <li>• Conclusion and summary of unit</li> </ul>
<b>5.</b>	<b>Color Schemes and Psychology</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Color Schemes</li> <li>• Color psychology, symbolism, expression-color basics- (physics of light, pigments etc.)</li> <li>• Conclusion and summary of unit</li> </ul>

## **E. RECOMMENDED STUDY MATERIAL**

<b>Sr. No.</b>	<b>Book</b>	<b>Author</b>	<b>Edition</b>	<b>Publication</b>
<b>1.</b>	Universal principles of design	WilliamLidwell , Kritina Holden, Jill Butler	2010	<b>Rockport Publishers</b>
<b>2.</b>	Visual imagination – An introduction of Art	Kurty D. Bruce	1964	New Jersey, Prentice Hall, Hayashi Studio.
<b>3.</b>	Water Color Rendering,	Guerin, Jules.	2010	University of Michigan Library Publication
<b>4.</b>	Manual of Rendering in pen and ink	Gill Robert W	1984	Van Nostrand Reinhold Publication.
<b>5.</b>	Principles of three dimensional Design	Wucius Wong	1977	NY. NY. USA. Van Nostrand



				Reinhold Publication
6.	Principles of two dimensional Design	Wucius Wong	1977	NY.NY. USA. Van Nostrand Reinhold Publication
7.	Basic Design: the Dynamics of Visual Form	Sansmarg Maurice de	1964	UK, The Herbert press
8.	Interaction of Colors	Albert, Josef	1963	U.S. Yale University Press

### **D. EVALUATON**

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



**A. OBJECTIVE**

The objective of the course is:

- To introduce and initiate design thinking in students using design vocabulary, principle & elements of design using exploratory 2D & 3D design exercises.
- To explore the inter relation between form, space & function and their relation with quality of spaces

**B. COURSE OUTCOME**

After studying this course you should be able to:

- CO1. Understand the basics of design process.
- CO2. Demonstrate competency in the use of design fundamentals as principal tools in establishing design criteria and developing the overall design process.
- CO3. Practice the application of basic rules of space planning and organization.
- CO4. To understand the ideation generation of design.
- CO5. To understand how research in design is important for any design ideation and development. Practice the brain storming exercise for design development.

**C. OUTLINE OF THE COURSE**

Unit No.	Title of the unit	Time Required for the Unit (Hours)
1	The Design Process	12
2	Design Objectives	18
3	Ideation of design	12
4	Research	18
5	Conceptualizing Design	12

**D. DETAILED SYLLABUS**

Unit	Contents
1.	<b>The Design Process</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit.</li> <li>• Study of form and space</li> <li>• Understanding design process</li> <li>• Steps to design process.</li> <li>• Defining the design project.</li> </ul>



<b>2.</b>	<b>Design Objectives</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit.</li> <li>• What are design objectives?</li> <li>• Understanding design objectives and concepts.</li> </ul>
<b>3.</b>	<b>Ideation of design</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit.</li> <li>• Understanding Brainstorming, thinking outside the box, ideating a range of different, creative ideas that address the unmet user needs identified in the define phase.</li> </ul>
<b>4.</b>	<b>Research</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit.</li> <li>• Understanding beyond the generic information or brief given by the client.</li> <li>• Researching further to understand the product/service and try to achieve clear and conclusive information about the design objective, customer preferences, competitors' design outlook, primary features, key value proposition, and so on.</li> <li>• Creating a strong research work for client needs and demands.</li> </ul>
<b>5.</b>	<b>Conceptualizing Design</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit.</li> <li>• Understanding the process of design in different stages and conceptualizing a basic design.</li> <li>• Studying the above units, student must understand the design complexities and create conceptual design.</li> </ul>

## **E. RECOMMENDED STUDY MATERIAL**

Sr. No.	Book	Author	Edition	Publication
1.	The Design Process	Karl Aspelund	2015	Fairchild books
2.	Design Process in Architecture: From Concept to Completion	Geoffrey Makstutis	2018	Laurence King Publishing

## **F. EVALUATON**

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



## A. OBJECTIVE

The objective of the course is:

- To introduce the fundamentals of drawing through line as primary element.
- To introduce simple to complex process of drawing required to visualize the ideas.
- To study letterforms and typographic concepts as elements of graphic communication.
- To introduce the art of visual communication and the visual realization of a most basic element of communication.

## B. COURSE OUTCOME

After studying this course you should be able to:

- CO1. Understand the medium of drawing and its importance in visualization.
- CO2. Develop the understanding towards observation, visualization and visual experience through basic Elements of drawings
- CO3. Explore the new ideas through implementation of nature and object drawing in different medium and scales.
- CO4. Gain understanding of the basic principles of typography, including the selection and arrangement of type for effective legibility.
- CO5. Understand and develop the effective compositions of text, information, and visuals to enhance concept.

## C. OUTLINE OF THE COURSE

Unit No.	Title of the unit	Time Required for the Unit (Hours)
1	Introduction	12
2	Sketching - I	12
3	Sketching - II	12
4	Sketching - III	12
5	Implementation and innovation	12

## D. DETAILED SYLLABUS

Unit	Contents
1.	<b>Introduction</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Introduction to drawing/ sketching tools (pencil grades, scales, etc.).</li> <li>• Drawing techniques and its Implementation.</li> <li>• Conclusion and summary of unit</li> </ul>

<b>2.</b>	<b>Sketching - I</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Free hand line sketching practice.</li> <li>• Outline sketching of basic objects and geometric shapes with mediums like pencil and charcoal (elementary).</li> <li>• Still life sketching of different objects, rendering in above mediums.</li> <li>• Conclusion and summary of unit</li> </ul>
<b>3.</b>	<b>Sketching - II</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Nature study drawing with outline sketching.</li> <li>• Still life sketching of nature, rendering with mediums like color pencils and dry pastels.</li> <li>• Conclusion and summary of unit</li> </ul>
<b>4.</b>	<b>Basics of Typography</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Basics of Calligraphy and typography.</li> <li>• Understanding the structure and proportion of words in different fonts.</li> <li>• Study of different types of writing tools</li> <li>• Conclusion and summary of unit</li> </ul>
<b>5.</b>	<b>Exercise with words</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Exercise with words (communication value of typeface and words).</li> <li>• Exercise with different types of fonts and styles.</li> <li>• Conclusion and summary of unit</li> </ul>

## **E. RECOMMENDED STUDY MATERIAL**

<b>Sr. No.</b>	<b>Book</b>	<b>Author</b>	<b>Edition</b>	<b>Publication</b>
1	Typography, London UK	McLean Ruari	1980	Thames & Hudson Publishing
2	Typography: An Encyclopedia survey of Type Design & Techniques throughout History	Friedl Friedrich, Nicolaus OH & Stein Bernard	1998	Black Dog & Levnthal Publishers INC
3	Typography	David Choi, Lynn & Lei Znang	2014	Chois Galler y Publ.
4	Rendering with pen & ink	Robert W. Gill,	1984	Thames & Hudson Publishing



5	A Foundation Course in Drawing: A Complete Program of Techniques and Skills,	Peter Stayner & Terry Rosenberg	2003	Arcturus Publishing Ltd.
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## **F. EVALUATION**

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



**A. OBJECTIVE**

The objective of the course is:

- To introduce the methods of Material Exploration: Need; role of scale material exploration in design: general practices: Digital models.
- To develop the understanding of various tools and machines employed, best practices involved in Material exploration the tools and the techniques. Making practical models.

**B. COURSE OUTCOME**

After studying this course you should be able to:

- CO1. Understand the use of basic materials and their uses in design and incorporating them in their projects. Materials for ex. Paper, Thermo coal, Cardboard.
- CO2. Understand the use of basic materials and their uses in design and incorporating them in their projects. Materials for eq. Resin, Fiber, Yarn, Fabric, Plastic Leather etc.
- CO3. Understand the use of basic materials and their uses in design and incorporating them in their projects. Materials for ex. Clay, POP
- CO4. Understand the use of basic materials and their uses in design and incorporating them in their projects. Materials for ex. Wood, Timber
- CO5. Fuse different materials for making any product or to use them in any of the design projects

**C. OUTLINE OF THE COURSE**

Unit No.	Title of the unit	Time Required for the Unit (Hours)
1	Exploration I	10
2	Exploration II	10
3	Exploration III	10
4	Exploration IV	10
5	Fusion	8

**D. DETAILED SYLLABUS**

Unit	Contents
1.	Exploration I
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Understanding of basic material's behavior, characteristic, properties etc. of basic materials (E.g. Paper and Card board, etc.)</li> <li>• Exploration and Manipulation of basic materials.</li> </ul>

	<ul style="list-style-type: none"> <li>• Conclusion and summary of unit</li> </ul>
<b>2.</b>	<b>Exploration II</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Understanding of basic material's behavior, characteristic, properties etc. of basic materials (eg. Fiber, Yarn, Fabric, Plastic, Leather etc.)</li> <li>• Exploration and Manipulation of these materials.</li> <li>• Conclusion and summary of unit</li> </ul>
<b>3.</b>	<b>Exploration III</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Understanding of basic material's behavior, characteristic, properties etc. of basic materials (eg. Soap, Clay, POP etc.)</li> <li>• Exploration and Manipulation of these materials.</li> <li>• Conclusion and summary of unit</li> </ul>
<b>4.</b>	<b>Exploration IV</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Understanding of basic material's behavior, characteristic, properties etc. of basic materials (eg. Wood, Timber etc.)</li> <li>• Exploration and Manipulation of these materials.</li> <li>• Conclusion and summary of unit</li> </ul>
<b>5.</b>	<b>Fusion</b>
	Technique for fusing the above materials.

## **E. RECOMMENDED STUDY MATERIAL**

<b>Sr. No.</b>	<b>Book</b>	<b>Author</b>	<b>Edition</b>	<b>Publication</b>
<b>1.</b>	Rendering with pen & ink	Robert W. Gill,	1984	Thames & Hudson Publishing
<b>2.</b>	A Foundation Course in Drawing: A Complete Program of Techniques and	Peter Stayner & Terry Rosenberg	2003	Arcturus Publishing



	Skills,			Ltd.
3.	Color theory: An essential guide to color	Walter Foster Publishing.	2013	Chois Gallery Publishing
4.	Designers Color Manual: The complete guide to color theory & application,	Tom Fraser & Adam Banks	2004	, Chronicle Books

## **F. EVALUATON**

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



## **A. OBJECTIVE**

To familiarize the students with basic knowledge of orthographic projections of simple geometrical forms to be able to represent basic ideas through 2D & 3D designs. Also to understand and learn basic techniques of drafting and lettering.

## **B. COURSE OUTCOMES**

- CO1. To develop an understanding of solids & planes and their projections. It also includes the sections of prism, pyramid, cylinder & cone, and intersections of the same.
- CO2. To develop the surface of simple objects and with reference of the model of the previous exercise, the development of surface of the model finalized.
- CO3. To analyze the sciography of simple objects or study models at different times of the day.
- CO4. To create one point and two point perspective of simple objects or study models
- CO5. To understand the graphical presentation and rendering of the simple objects, symbols and model.

## **C. OUTLINE OF THE COURSE**

Unit No.	Title of the unit	Time Required for the Unit (Hours)
1	Drawing material and Equipment	6
2	Free hand drawings	10
3	Lettering, fonts and scale	10
4	Plane geometry	10
5	Plane, solid, section and intersection	12

## **D.DETAILED SYLLABUS**

Unit	Contents
1.	<b>Drawing material and Equipment</b>
	<ul style="list-style-type: none"> <li>• Basic introduction, Stationary and tools</li> <li>• How to use drawing instruments</li> </ul>
2.	<b>Free hand drawings</b>
	<ul style="list-style-type: none"> <li>• Lines, Types of lines, Basic introduction of lines, Construction of lines, How to divide a line, Curves , Introduction of curve, To find center of an arch, Construction of ogee curve or reverse , curve, Objects, Basic</li> </ul>



	<p>introduction, Types of objects</p> <ul style="list-style-type: none"> <li>• Application of free hand drawings, lines, curves and arches</li> </ul>
<b>3.</b>	<b>Lettering, fonts and scale</b>
	<ul style="list-style-type: none"> <li>• Introduction of lettering, Types of lettering, Single –stroke letters, Upper case and lower case letters, Introduction of fonts, Types of fonts , Scale, Scale on drawings, Types of scale, Plane scale, diagonal scale, comparative scale</li> <li>• Application of scales in architectural drawings</li> </ul>
<b>4.</b>	<b>Plane geometry</b>
	<ul style="list-style-type: none"> <li>• Principles of plane geometry, Plane and their types, Principles, Orthographic projection of a point and line, Principles of projections , Method of projections, Quadrant, First angle projection, third angle projection, Orthographic projection of a point, Orthographic projection of a line</li> <li>• How to use planes and projection methods to represent design drawings</li> </ul>
<b>5.</b>	<b>Plane, solid, section and intersection</b>
	<ul style="list-style-type: none"> <li>• Orthographic projection of a plane, Types of planes, Traces of planes, Projection of oblique plane, Orthographic projection of solids, Types of solids, Projection of solid in simple position, Projection of solid with inclination, Section of solids, Section of prism, Section of pyramid, Section of cylinder, Section of cone, Intersection of solids, Method of determining the line of intersection, Intersection of two prisms, Intersection of cylinder and cone</li> <li>• Use of projections of solids in architectural drawings.</li> </ul>

## **E. RECOMMENDED STUDY MATERIAL**

<b>Sr. No.</b>	<b>Book</b>	<b>Author</b>	<b>Edition</b>	<b>Publication</b>
1.	Engineering Drawing	P.S. Gill	2006	S.K. Kataria & Sons, New Delhi
2.	Architectural Graphics	Francis D.K. Ching	2002	
3.	Engineering material	N.D.Bhatt, V.M. Panchal	50 <sup>th</sup>	Chartar Publishing House

## **F. EVALUATON**

Continuous assessment of session work may consist of evaluation of individual’s project work and Assignment etc.

**A. OBJECTIVE**

The objective of the course is:

- To spread awareness & to teach the basics of computers in the field of architecture.
- To teach the basics of office management software.
- To understand fundamental and technical aspects of Communication using English as the base language & applications in the day to day life as well as professional life. This will include activities like: Role play, Storytelling, Debates, Two-minute presentation. Email writing, application writing in a professional field.

**B. COURSE OUTCOMES**

- CO1. Demonstrate the usage of Basic English grammar like nouns, verbs, adverbs, etc. and components of effective communication using various tools of effective speech.
- CO2. To comprehend and write effective reports, design documentation and also make effective visual and verbal presentations
- CO3. To learn basics about computer and its application in documentation and writing
- CO4. To gain proficiency in using Microsoft Office and other similar software
- CO5. To become acquainted with design vocabulary

**C. OUTLINE OF THE COURSE**

Unit No.	Title of the unit	Time Required for the Unit (Hours)
1	Fundamentals of English & Communication	6
2	The Listening Comprehension	6
3	Reading and Language Comprehension	6
4	Introduction to computers	9
5	MS Office	9

**C. DETAILED SYLLABUS**

Unit	Contents
1.	<b>Fundamentals of English &amp; Communication</b>
	<ul style="list-style-type: none"> <li>• Basics of Grammar- Verbs, Adverbs, Nouns, Pronouns, Tenses, Adjectives</li> <li>• Correct Usage of Grammar &amp; Vocabulary</li> <li>• Correct usage of nouns, pronouns, verbs and adverbs</li> </ul>

	<ul style="list-style-type: none"> <li>• Components of effective communication</li> <li>• Features of an effective speech, practicing fluently- dialogue practice, simple social exchanges, short extempore talks</li> </ul>
<b>2.</b>	<b>The Listening Comprehension</b>
	<ul style="list-style-type: none"> <li>• Listening process and types of listening</li> <li>• Listening and understanding recorded, structured talks and classroom lectures</li> <li>• Notes making and guessing meaning of words from the context</li> <li>• Barriers to listening- Language, cultural, Psychological &amp; Physical</li> </ul>
<b>3.</b>	<b>Reading and Writing Comprehension</b>
	<ul style="list-style-type: none"> <li>• Efficient and inefficient reading</li> <li>• Reading instructions, graphic information, and interpretation</li> <li>• Reading scientific and technical texts</li> <li>• Use of library- role of bibliography, table of contents, index etc.- use of pocket dictionary</li> <li>• Understanding of report writing, email writing, application writing. Understanding the basic professional language.</li> </ul>
<b>4.</b>	<b>Introduction to computers</b>
	<ul style="list-style-type: none"> <li>• An Overview of computer, Characteristics of computer, Computer Generations, Classification Of Computers, Introduction to computer components, Software Components, Hardware components, Storage Devices, Data Organization</li> <li>• Computer network- Need, Scope and benefit of CN concepts, Network Types (Overview), Networking devices, Comparison between internet, Ethernet and intranet</li> <li>• Computer software concepts- Introduction to computer software and its types, System Software, General Purpose Software (introduction), Application Software</li> </ul>
<b>5.</b>	<b>MS Office</b>
	<ul style="list-style-type: none"> <li>• MS Word- Introduction to MS Word, Page Layout and Paragraph, Tables, Mail Merge, Introduction to Mail Merge, Working with Mail Merge, Pasting of pictures in word document and how to filter the pictures.</li> <li>• MS PowerPoint - Introduction to MS Power Point, Slide Management, Navigation schemes, Applying and modifying designs, Graphics &amp; Multimedia, Creating presentation for the web. Pasting of pictures in slides and how to filter the pictures.</li> <li>• MS Excel- Introduction to MS Excel, Formatting worksheet &amp; printing worksheet, Charts Terminology, Working With Macros</li> </ul>



## **E. RECOMMENDED STUDY MATERIAL**

<b>Sr. No.</b>	<b>Book</b>	<b>Author</b>	<b>Edition</b>	<b>Publication</b>
1.	Effective Technical Communication	M. Ashraf Rizvi	2005	Tata McGraw-Hill
2.	Study reading- A SUBJECT in reading skills for academic purposes	EricH.Glenddings & Beverly Holmstrom	1992	Cambridge University Press
3.	Grammar of the Modern English Language	Sukhdev Singh & Balbir Singh	2012	Foundation Books, New Delhi

## **F. EVALUATON**

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

<b>BULCHU1201</b>	<b>FOUNDATION ENGLISH</b>	<b>1 Credit [LTP: 0-0-2]</b>
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## **COURSE OUTCOMES:**

On successful completion of the course, the learners will be able to:

CO	Cognitive Abilities	Course Outcomes
CO-01	Understanding/ Applying/Creating	Demonstrate the grammar skills involved in writing sentences and short paragraphs.
CO-02	Understanding/ Applying	Build up a good command over English grammar and vocabulary to be able to ace error spotting.
CO-03	Understanding/ Applying/Creating	Define unknown words in sentence level context using a picture dictionary or by creating a memory link for support.
CO-04	Understanding / Applying	Understand, analyze and effectively use the conventions of the English language.
CO-05	Understanding/Applying	Develop their interest in reading and enhance their oral and silent reading skills along with sharpen their critical and analytical thinking.

UNIT NO.	UNIT NAME	Hours
1	Basics of Grammar	6
2	Spotting the grammatical errors and rectification	4
3	Vocabulary Building	4
4	Basics of Writing Skills	6
5	Reading Comprehension	5

LIST OF ACTIVITIES	
1.	Parts of Speech: Theory & Practice through various Exercises
2.	Sentence Structures: Theory & Practice through various Exercises
3.	Tenses: Theory & Practice through various Exercises
4.	Spotting the Errors: Applying the rules and Practice Questions
5.	Vocabulary Building-I: Practice by sentence formation
6.	Vocabulary Building-II: Practice by sentence formation
7.	Paragraph Writing
8.	Article Writing
9.	Précis Writing
10.	Formal & Informal Letter Writing
11.	Reading Comprehension- I: Beginner's level reading and Answering the Questions (Competitive Exams)



12.	Reading Comprehension- II: Intermediate's level reading and Answering the Questions (Competitive Exams)
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BULCHU1202	COMMUNICATION SKILLS-I	1 Credit [LTP: 0-0-2]
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**COURSE OUTCOMES:**



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On successful completion of the course the learners will be able to:

CO	Cognitive Abilities	Course Outcomes
CO-01	Understanding/ Applying/Creating	Demonstrate depth of understanding, observing complexity, improve insight and develop independent thought and persuasiveness.
CO-02	Understanding/ Applying	Determine the main ideas of the text by using key details and compare & contrast the most important points with the help of their perspective.
CO-03	Understanding/ Applying/Creating	Practice the qualities of writing style by applying the concepts of sentence conciseness, accuracy, readability, coherence and by avoiding wordiness or ambiguity.
CO-04	Understanding / Applying	Distinguish words and phrases as per their intonation patterns and interpret the audios based on different situations
CO-05	Understanding/Applying	Demonstrate the understanding of impactful conversational skills, presentation skills & telephonic conversation by considering the need of the audience.

UNIT NO.	UNIT NAME	Hours
1	Intrapersonal/Interpersonal Skills	6
2	Reading Skills	4
3	Writing Skills	6
4	Listening Skills	4
5	Speaking Skills	5

LIST OF ACTIVITIES	
1.	Self – Awareness & Self-Introduction
2.	Goal Setting: Ambition induced, interest induced or environment conditioned
3.	Cultivating Conversational Skills
4.	Role Plays : Selection of varied plots, characters & settings
5.	Reading skills I: Newspaper Reading & General Article Reading
6.	Writing Skills I: Story Making by jumbled words
7.	Understanding and Applying Vocabulary
8.	Listening Skills I: Types and practice by analyzing situational listening
9.	Speaking Skills I: JAM
10.	PowerPoint Presentation Skills-I
11.	Telephonic Etiquettes and Communication
12.	Recognizing, understanding and applying communication style (Verbal/Non-Verbal)





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# SYLLABUS

## II Semester

BIDCID2101	HISTORY OF INTERIOR DESIGN-I	2 Credit [LTP: 2-0-0]
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### A. OBJECTIVE

Explores traditional art forms, design elements, evolution of furniture styles, decorative elements and motifs throughout history in India across geographical locations. Creates understanding of social and cultural dimensions to interior design.

### B. COURSE OUTCOMES

- CO1. Understanding the history of Interior design in the Ancient world.
- CO2. Understanding the history of Interior design in the Middle ages of Europe.
- CO3. Understanding the history of Interior design in the Asia and African Cultures.
- CO4. Understanding the history of Interior design in the C. later middle ages.
- CO5. Understanding the history of Interior design in the Post industrial Revolution period

### C. OUTLINE OF THE COURSE



Unit No.	Title of the unit	Time Required for the Unit (Hours)
1	Ancient World History	4
2	Middle ages in Europe	6
3	Asian and African Cultures	4
4	The Later Middle ages	6
5	Post Industrial Revolution Era	4

## **D. DETAILED SYLLABUS**

Unit	Contents
<b>1.</b>	<b>Ancient World History</b>
	<ul style="list-style-type: none"> <li>• Prehistory to Early civilizations, Prehistoric Interiors, Archeological evidence</li> <li>• Evidence from Tribal Cultures, pattern and Design</li> <li>• The first permanent settlement, Mesopotamia, Pre-Columbian America, Ancient Egypt</li> <li>• Classical Civilizations: Greece and Rome</li> </ul>
<b>2.</b>	<b>Middle ages in Europe</b>
	<ul style="list-style-type: none"> <li>• Early Christian, Byzantine and Romanesque</li> <li>• Early Christian Design</li> <li>• Early medieval: The “Dark ages”</li> <li>• The Romanesque style</li> </ul>
<b>3.</b>	<b>Asian and African Cultures</b>
	<ul style="list-style-type: none"> <li>• Islamic and Asian Traditions</li> <li>• India and Pakistan(Buddhist, Hindu, Jain Architecture)</li> <li>• Western Influences</li> <li>• Cambodia, Thailand, Indonesia, China, Korea, Japan</li> </ul>
<b>4.</b>	<b>The Later Middle ages</b>
	<ul style="list-style-type: none"> <li>• Elements of Gothic Style</li> <li>• The Renaissance in Italy</li> <li>• Baroque and Rococo In Italy and North Europe</li> <li>• Renaissance, Baroque and Rococo in France and Spain, Renaissance to Georgian</li> <li>• Colonial and Federal America</li> </ul>
<b>5.</b>	<b>Post Industrial Revolution Era</b>
	<ul style="list-style-type: none"> <li>• The Regency, revivals and Industrial Revolution</li> <li>• The Victorian Era</li> </ul>



	<ul style="list-style-type: none"> <li>• The Aesthetic Movements</li> <li>• Art Nouveau and the Vienna Secession</li> <li>• Eclecticism</li> </ul>
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## **E. RECOMMENDED STUDY MATERIAL**

Sr. No.	Book	Author	Edition	Publication
1.	A history of Interior Design	John Pile and Judith Gura	2013	Wiley Publications

## **F. EVALUATION**

Continuous assessment of session work may consist of evaluation of project work, Assignments etc.

<b>BIDCID2102</b>	<b>DESIGN CALCULATIONS</b>	<b>2 Credit [LTP: 2-0-0]</b>
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### **A. OBJECTIVE**

Taking measurements is a key element of the job and so as making decisions and results based on the calculations. We all know accuracy is crucial, professional interior designers and decorators measure everything in prescribed measurement system (metric & Imperial).

The objective of the course is:

- To Study the properties of lines and planes in space, along with sphere.
- To understand different Measurement Systems followed in India
- To understand Calculation of Areas and Perimeters
- To understand Forms, Calculation of Volumes and Surface Areas

### **B. COURSE OUTCOMES**

- CO1. Understand different conversion units followed in India.
- CO2. Develop the ability to calculate the area, perimeters, volumes and surface areas.
- CO3. Understand the subject & making of basic 3D shapes like cube, cuboids, cylinder, pyramid etc.



- CO4. Understand the Addition &Subtraction of different 3D Shapes
- CO5. Present their design project completed in respect with the help of design calculations

### **C. OUTLINE OF THE COURSE**

<b>Unit No.</b>	<b>Title of the unit</b>	<b>Time Required for the Unit (Hours)</b>
<b>1</b>	<b>Introduction</b>	4
<b>2</b>	<b>Basic Applied Mathematics</b>	5
<b>3</b>	<b>Area Programming</b>	5
<b>4</b>	<b>Material Calculation</b>	5
<b>5</b>	<b>Presentation of Design Project</b>	5

### **D. DETAILED SYLLABUS**

<b>Unit</b>	<b>Contents</b>
<b>1.</b>	<b>Introduction</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Introduction to subject &amp; making of basic 3D shapes like cube, cuboids, cylinder, pyramid etc.</li> <li>• Conclusion and summary of unit</li> </ul>
<b>2.</b>	<b>Basic Applied Mathematics</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Addition &amp; subtraction of different 3D Shapes.</li> <li>• Conclusion and summary of unit</li> </ul>
<b>3.</b>	<b>Area Programming</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Calculating area of space according to furniture kept in it.</li> <li>• Conclusion and summary of unit.</li> </ul>
<b>4.</b>	<b>Material Calculation</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Calculating quantity of materials (wood, glass etc.) for a sample furniture.</li> <li>• Conclusion and summary of unit</li> </ul>
<b>5.</b>	<b>Presentation of Design Project</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Presenting their design project in respect with the subject.</li> <li>• Conclusion and summary of unit</li> </ul>



## **E. RECOMMENDED STUDY MATERIAL**

Sr. No.	Book	Author	Edition	Publication
1.	Discovering mathematics Volume I to IV The Open University, UK			The Open University, UK
2.	Measurement	Paul Lockhart	2012	Harvard University press
3.	Everyday Math for Grown-ups: Getting to grips with the basics	KjartanPoskitt	2015	Michael O'Mara
4.	Mathematics Textbooks Class IX &X			Mathematics Textbooks Class IX &X

## **F. EVALUATON**

Continuous assessment of session work may consist of evaluation of project work,  
Assignments etc.

<b>BIDCID2201</b>	<b>INTERIOR DESIGN STUDIO – I AND MEASURED DRAWING</b>	<b>6 Credits [LTP: 0-4-4]</b>
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### **A. OBJECTIVE**

The objective of the course is:

- To develop an understanding of standards and process used for preparation of interior drawings to develop the skills of preparing various architectural drawings and details used for designing of spaces.
- To understand the process involved for making drawings with sufficient details such that the contractor is able to develop as per the design.
- To understand graphical presentation of all the components of a building along with dimensioning and annotations

### **B. COURSE OUTCOMES**

- CO1. Create a visual language based on concept development.
- CO2. Understand the critical issues of human anthropometrics
- CO3. Understand the process of literature study and case study analysis in design projects.
- CO4. Develop and critique concepts diagrams.



- CO5. Integrate concepts into planning design decisions.

### **C. OUTLINE OF THE COURSE**

<b>Unit No.</b>	<b>Title of the unit</b>	<b>Time Required for the Unit (Hours)</b>
<b>1</b>	<b>Introduction to Design Process</b>	18
<b>2</b>	<b>Pre-Design Studies, Site analysis &amp; zoning</b>	18
<b>3</b>	<b>Ideation and Realization</b>	18
<b>4</b>	<b>Measure Drawing(Introduction, Measurement, Documentation)</b>	18
<b>5</b>	<b>Measure Drawing (Drawing and Presentation)</b>	24

### **D. DETAILED SYLLABUS**

<b>Unit</b>	<b>Contents</b>
<b>1.</b>	<b>Introduction to Design Process</b>
	<ul style="list-style-type: none"> <li>• Introduction of design problem</li> <li>• Lecture on basic design process including user needs, program analysis, area analysis, market survey, site analysis etc.</li> <li>• Discussion based on the existing exercise and the understanding of students.</li> <li>• Student will understand the basics of design problem, which will include different types of stages of design and how the process works.</li> </ul>
<b>2.</b>	<b>Pre-Design Studies , Site analysis &amp; zoning</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Importance of Case Studies/ Standards/ Anthropometrics/ Literature Studies in design process</li> <li>• Identifying the furniture &amp; activity</li> <li>• Identifying the design scope &amp; limitations.</li> <li>• Understanding the importance of critical analysis of case studies and inferences outcome.</li> <li>• Compilation of Site Analysis/ Zoning/ Bubble Diagram and Circulation Diagram/ Site Planning</li> <li>• Formulation of design through elements and principles of design.</li> <li>• Applications of Ordering principal such as axis, symmetry, hierarchy, datum, rhythms, repetition, visual perception proximity, repetition, simplest and largest figure, continuity and closure, figure and ground relationship</li> <li>• Research on Design Styles.</li> <li>• Conclusion and summary of unit.</li> </ul>
<b>3.</b>	<b>Ideation and Realization</b>



	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Concept Drawing and Design/ Plans/ Sections/ Elevation/ Views and Models</li> <li>• Design exercises of small scale interior space.</li> <li>• Creating Design options based on the approved concept</li> <li>• Creating Plans, elevations &amp; sections of the final Design.</li> <li>• Conclusion and summary of unit.</li> </ul>
<b>4.</b>	<b>Measure Drawing(Introduction, Measurement, Documentation)</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Techniques to measure the site</li> <li>• To measure thoroughly the entire site</li> <li>• Final documentation of the drawings</li> <li>• Conclusion and summary of unit.</li> </ul>
<b>5.</b>	<b>Measure Drawing (Drawing and Presentation)</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Preparing drawings of the measured site</li> <li>• Presentation of the final documented drawings</li> <li>• Conclusion and summary of unit.</li> </ul>

## **E. RECOMMENDED STUDY MATERIAL**

<b>Sr. No.</b>	<b>Book</b>	<b>Author</b>	<b>Edition</b>	<b>Publication</b>
1.	FORM, SPACE, AND ORDER	Francis D.K. Ching		
2.	Interior Design Reference Manual.	Ballast, David Kent	2010	Belmont, CA: Professional Publications Inc.
3.	Rendering with pen and ink ROBERT W. GILL How to design a Chair	Design Museum		

## **F. EVALUATON**

Continuous assessment of session work may consist of evaluation of project work, assignments etc.



<b>BIDCID2202</b>	<b>DRAWING, COLOR STUDY &amp; GRAPHICS - II</b>	<b>3 Credit [LTP: 0-2-2]</b>
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### **A. OBJECTIVE**

This course offers knowledge and experience about the classic drawing and sketching techniques and develops the appropriate skills for visualization and representation to facilitate effective visual communication

### **B. COURSE OUTCOMES**

- CO1. Developing drawing from imagination (sketching etc.)
- CO2. Understand the sketching techniques about 3D visualization of furniture.
- CO3. To understand rendering through different mediums.
- CO4. Developing representation skills for different types of views
- CO5. Understanding the phenomenon of sciography.

### **C. OUTLINE OF THE COURSE**

<b>Unit No.</b>	<b>Title of the unit</b>	<b>Time Required for the Unit (Hours)</b>
<b>1</b>	<b>Drawing from Imagination</b>	<b>12</b>





2	Indoor sketching – furniture	9
3	Rendering techniques	9
4	Representation Drawings and Skills	9
5	Sciography	9

## **D. DETAILED SYLLABUS**

Unit	Contents
<b>1.</b>	<b>Drawing from Imagination</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Speculative sketching</li> <li>• Concept sketches</li> <li>• Presentation sketches &amp; drawings</li> </ul>
<b>2.</b>	<b>Indoor sketching – furniture</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Furniture sketches with basic outline work of varied types – chair, table, wardrobe, bed, etc.</li> <li>• Conclusion and summary of unit.</li> </ul>
<b>3.</b>	<b>Rendering techniques</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Introduction to pen and brush exercises</li> <li>• Ink rendering</li> <li>• Color rendering: Fuji colors, acrylic colors</li> </ul>
<b>4.</b>	<b>Representation Drawings and Skills</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Representation: Orthographic, Isometric &amp; Perspective drawing of Complex objects and simple spaces</li> </ul>
<b>5.</b>	<b>Sciography</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Effect of light and shade on simple objects and forms</li> </ul>

## **E. RECOMMENDED STUDY MATERIAL**

Sr. No.	Book	Author	Edition	Publication
1.	Architectural Sketching and Rendering: Techniques for	Stephen Klimont	1984	Watson Guptill



	Designers and Artists			
2.	Sketching and Rendering of Interior Space	Ivo.D. Drpic	1988	Watson Guptill
3.	Design Drawing	Francis D.Ching		Wiley Publications
4.	Perspective for Interior Designers	John. F. Pile		Watson Guptill
5.	Perspective Drawing Hand book	Joseph D, Amelio	2004	Dover publications

## **F. EVALUATION**

Continuous assessment of session work may consist of evaluation freehand drawing of complex objects, spaces and the fundamental techniques of concept and presentation sketches.

<b>BIDCID2203</b>	<b>Material Exploration Design &amp; Model Making -II</b>	<b>3 Credit [LTP: 0-2-2]</b>
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### **A. OBJECTIVE**

The objective of the course is:

- To introduce the advance methods of Material Exploration: Need; role of scale material exploration in design: general practices: Digital models.
- To develop the understanding of various advance tools and machines employed, best practices involved in Material exploration the tools and the techniques. Making practical models.

### **B. COURSE OUTCOMES**

- CO1. Understand the use of advance materials and their uses in design and incorporating them in their projects. Materials for ex. Wire, Copper, Aluminum and other metals
- CO2. Understand the use of advance materials and their uses in design and incorporating them in their projects. Materials for eq. Wood, Cork etc.
- CO3. Understand the use of advance materials and their uses in design and incorporating them in their projects. Materials for ex. Soap, Clay, POP
- CO4. Understand the techniques of fusion by the use of advance materials and their uses in



- design and incorporating them in their projects. Materials for eq. Wood metal
- CO5. Fuse different materials for making any product or to use them in any of the design projects

### **C. OUTLINE OF THE COURSE**

Unit No.	Title of the unit	Time Required for the Unit (Hours)
1	Exploration I	8
2	Exploration II	10
3	Exploration III	10
4	Fusion	10
5	Innovation	10

### **D. DETAILED SYLLABUS**

Unit	Contents
1.	<b>Exploration I</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Understanding of basic material's behavior, characteristic, properties etc. of various metals (eg. Wire, Copper, Aluminum and other metals etc.</li> <li>• Exploration and Manipulation of these materials.</li> <li>• Conclusion and summary of unit.</li> </ul>
2.	<b>Exploration II</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Understanding of basic material's behavior, characteristic, properties etc. of Wood, Cork etc.</li> <li>• Exploration and Manipulation of these materials.</li> <li>• Conclusion and summary of unit.</li> </ul>
3.	<b>Exploration III</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Understanding of basic material's behavior, characteristic, properties etc. of stone etc.</li> <li>• Exploration and Manipulation of these materials.</li> <li>• Conclusion and summary of unit.</li> </ul>
4.	<b>Fusion</b>
	<ul style="list-style-type: none"> <li>• Introduction to fusion of materials, Characteristics, Properties etc. techniques of fusion in Interior Design Studio</li> </ul>
5.	<b>Innovation</b>
	<ul style="list-style-type: none"> <li>• Creating 3D forms using the various techniques in carpentry by prototyping the IDS furniture.</li> </ul>



## **E. RECOMMENDED STUDY MATERIAL**

<b>Sr. No.</b>	<b>Book</b>	<b>Author</b>	<b>Edition</b>	<b>Publication</b>
1.	Rendering with pen & ink	Robert W. Gill,	1984	Thames &Hudson Publishing
2.	A Foundation Course in Drawing: A Complete Program of Techniques and Skills,	Peter Stayner& Terry Rosenberg	2003	Arcturus Publishing Ltd.
3.	Color theory: An essential guide to color	Walter Foster Publishing.	2013	Chois Gallery Publishing
4.	Designers Color Manual: The complete guide to color theory & application,	Tom Fraser & Adam Banks	2004	Chronicle Books

## **F. EVALUATON**

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

<b>BIDCID2204</b>	<b>CARPENTRY &amp; METAL SOLDERING</b>	<b>2 Credit [LTP: 0-1-2]</b>
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### **A. OBJECTIVE**

The objective of the course is:

- To understand material and tools by making objects which allow students to explore Timber.
- To explore different joinery, support conditions under trained experienced master craftsman.
- To communicate and establish dialogue between designed crafts skills.

### **B. COURSE OUTCOMES**

- CO1. Understand the basics of Furniture
- CO2. Understand the Construction and Tools and their uses to create an object.
- CO3. Understand the Construction Techniques of Plywood, type & sizes etc.
- CO4. Understand the Construction Techniques of Wooden floors and wall Paneling
- CO5. Design final prototype of furniture

### **C. OUTLINE OF THE COURSE**



Unit No.	Title of the unit	Time Required for the Unit (Hours)
1	Introducing	9
2	The basics of Furniture Construction and Tools	6
3	Plywood Construction Techniques	6
4	Wooden floors and wall Paneling	6
5	Furniture Model Making	9

## D. DETAILED SYLLABUS

Unit	Contents
<b>1.</b>	<b>Introducing</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Wood as a building material.</li> <li>• Introducing the techniques of planning, chiseling &amp; jointing in timber to learn the use of hand tools.</li> <li>• Timber – characteristics of good timber, defects, and applications of timber like joints etc. Finishes in timber like flooring, paneling etc. Finishes to timber.</li> <li>• Conclusion and summary of unit.</li> </ul>
<b>2.</b>	<b>The basics of Furniture Construction and Tools</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Joints (eg. T-shaped joint, L-shaped joint, overlap joint, Tenon-mortise joint, halved joint, Cogged joint, Housed, notching joint, Notching joint, Bridal joint, Angle or corner joint. Measurement and measurement systems, Furniture Construction: Drawers, Cadenza, dining chairs, sofa, settee, cots detail. Preparation for finishing, Furniture Materials Specifying timber, finishes etc.)</li> <li>• Conclusion and summary of unit.</li> </ul>
<b>3.</b>	<b>Plywood Construction Techniques</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Plywood as a building material, Layout techniques and machining plans.</li> <li>• Fabrication techniques - stapling, gluing.</li> <li>• Furniture Joinery - screw joinery, nail joinery, Mortise &amp; tenon joints, Dovetail joints, Dowel joints, Edge joints.</li> <li>• Conclusion and summary of unit.</li> </ul>



<b>4.</b>	<b>Wooden floors and wall Paneling</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Introduction to Types of floors, openings, staircases, roof forms etc., their characteristics, Properties and construction.</li> <li>• Conclusion and summary of unit.</li> </ul>
<b>5.</b>	<b>Furniture Model Making</b>
	<ul style="list-style-type: none"> <li>• Exercise involving the design of simple furniture and making a model of the same. Preparation of block models of furniture using materials like wood, boards, leather, fabric, thermo-coal, clay, soap/wax etc.</li> </ul>

### **E. RECOMMENDED STUDY MATERIAL**

Sr. No.	Book	Author	Edition	Publication
1.	The book of the House,	BENN,		Ernest Benn Limited, London
2.	Constructional Drawings & Architectural models	Janssen,	1973	Karl Kramer Verlag Stuttgart
3.	The art of making furniture in miniature	Harry W.Smith,	1982	E.P.Dutton Inc., New York,
4.	Engineering materials	S. C. Rangwala		Charotar Publishing, Anand

NOTE: Metal Soldering will be taken as Interdepartmental workshop.

### **F. EVALUATION**

Continuous assessment of session work may consist of evaluation of individual's project work, power point presentations etc.

<b>BIDCID2205</b>	<b>BASIC COMPUTERS &amp; PRESENTATION SKILLS-II</b>	<b>2 Credit [LTP: 0-1-2]</b>
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### **A. OBJECTIVE**

To make students aware of the role of advanced computer applications in the field of Architecture as well as communication skills. The exercises will include corporate grooming, etiquettes, and effective communication & leadership skills.

### **B. COURSE OUTCOMES**

- CO1. Interpret effective verbal communication in terms of architectural and general presentations, leadership skills, etc.
- CO2. Utilize the interpolation skills for learning professional communication skills i.e. business emails, letters, applications, etc.
- CO3. Classify various corporate grooming and etiquettes w.r.t professionalism, appearance, body language, social versus workplace situations, etc.
- CO4. Appraise the software skill - AutoCAD & implementation of the same on Interior Design subject.
- CO5. Render a design project - Photoshop for rendering purpose & implementation of the same on Interior Design subject

## C. OUTLINE OF THE COURSE

Unit No.	Title of the unit	Time Required for the Unit (Hours)
1	Verbal communication	6
2	Professional writing	6
3	Corporate Grooming & Etiquettes	9
4	Introduction to Auto CAD	9
5	Introduction to Rendering software	6

## D. DETAILED SYLLABUS

Unit	Contents
1.	<b>Verbal communication</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Interpolation skills, leadership skills for Interior Designers</li> </ul>
2.	<b>Professional writing</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Telephone etiquettes and business emails , letters &amp; applications</li> <li>• Conclusion and summary of unit.</li> </ul>
3.	<b>Corporate Grooming &amp; Etiquettes</b>
	<ul style="list-style-type: none"> <li>• Professionalism, working image, basics of business environment grooming-dress/ appearance, workplace versus social situations, business meetings, proper introductions and the “hand shake”</li> <li>• Mock interviews &amp; presentations</li> </ul>
4.	<b>Introduction to Auto CAD</b>
	<ul style="list-style-type: none"> <li>• How these software play an important role for an architect, basic fundamentals for these software Basic introduction of Auto CAD To use AutoCAD to make plans, sections and elevations by projecting lines and usage of layers in AutoCAD</li> <li>• Exercise for drafting plans in AutoCAD, Exercise for drafting plans and elevations in AutoCAD, Exercise for drafting sections in AutoCAD</li> </ul>
5.	<b>Introduction to Rendering software</b>
	<ul style="list-style-type: none"> <li>• Basic introduction of Photoshop How to use tools for rendering, coloring and shading, etc. use of effects in the drawings</li> <li>• Exercises on rendering software</li> </ul>





## E. RECOMMENDED STUDY MATERIAL

Sr. No.	Book	Author	Edition	Publication
1.	Life skills; A facilitator's guide for teenagers ( <a href="http://www.unicef.org/eapro/life_skills_a_facilitators_guide_for_teenager.pdf">www.unicef.org/eapro/life_skills_a_facilitators_guide_for_teenager.pdf</a> )	Cai Cai, MPP Harvard		UNICEF
2.	Business Etiquette: A guide for the Indian professionals	Sheetal kakkar Mehra	2012	Collins Buisness
3.	Personality development and soft skills	Barun K. Mitra	2016	Oxford press
4.	Presentations (20 minute manager)	HBR	2014	Harvard Buisness Review press

## F. EVALUATON

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

<b>BULCHU2201</b>	<b>LANGUAGE LAB</b>	<b>1 Credit [LTP: 0-0-2]</b>
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## COURSE OUTCOMES:

On successful completion of the course the learners will be able to

CO	Cognitive Abilities	Course Outcomes
CO-01	Understanding/ Applying/Creating	Understand the nuances of language through audio- visual experience and group activities.
CO-02	Understanding/ Applying	Neutralize the accent for intelligibility and develop confidence in speaking with clarity enhancing their employability skills.
CO-03	Understanding/ Applying/Creating	Demonstrate an understanding of grammatical structures in conversations and discussions.
CO-04	Understanding / Applying	Utilize the knowledge of confidence building strategies to manage one's own thoughts and emotions.
CO-05	Understanding/Applying	Identify the requirements of skills development and apply their learning to sharpen the same.



LIST OF LABS	
1.	Listening Skills
2.	Reading Comprehension
3.	Writing Skills
4.	Phonetics I
5.	Phonetics II
6.	Grammar and Common Errors Usage
7.	Conversation
8.	Role Plays
9.	Presentation Skills I
10.	Presentation Skills II
11.	Group Discussion
12.	Interview Skills

UNIT NO.	UNIT NAME	Hours
1	Introduction to Communication Skills on Learning Software	6
2	Concepts of Phonetics	4
3	Grammar Practice	6
4	Confidence Enhancement Activities	4
5	Skills Enhancement Activities	5

### Software used in Language Lab: EL-Client

S.No.	Topics	Exercises
I	Listening Skills: Fourteen Lessons each containing five exercises	
II	Fundamental Language Skills: Introductory Lessons Basic Lessons (a) Reading Basic Lessons (a) Grammar Basic Lessons (a) Vocabulary Basic Lessons (a) Writing Basic Lessons (b)-(c) Reading Basic Lessons (b)-(c) Grammar Basic Lessons (b) Vocabulary Basic Lessons (b) Writing	5exercises 6exercises 3exercises 6exercises 5exercises 9exercises 9exercises 5exercises 3exercises
III	Communication Skills: Reading Comprehension Vocabulary Grammar Writing Exercises on Reading, Vocabulary, Grammar and Writing	
IV	Vocabulary: Word mentor: Various games based on the formation of words.	



V	Phonetics: Consonants Vowels Diphthongs Intonation Correct Pronunciation	
VI	English as Second Language	45exercises
VII	Conversations: Nine topics for conversations.	

- Neutralization of accent for intelligibility
- Speaking with clarity and confidence thereby enhancing employability skills of the students

<b>BULCHU2202</b>	<b>COMMUNICATION SKILLS-II</b>	<b>1 Credit [LTP: 0-0-2]</b>
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### **Course Outcomes:**

On successful completion of the course the learners will be able to

CO	Cognitive Abilities	Course Outcomes
CO-01	<b>Understanding/ Applying</b>	Develop the ability to identify difficult sounds, words and phrases to strengthen listening and applying these improved skills in spoken communication.
CO-02	<b>Understanding/ Applying</b>	Cultivating knack for reading and writing by understanding the nuances of sentence structure and presentation style.
CO-03	<b>Understanding/ Applying</b>	Understand negotiation and Identify steps for proper negotiation preparation & learn bargaining techniques and strategies of inventing options for mutual gain and move negotiations from bargaining to closing.
CO-04	<b>Understanding / Applying</b>	Develop a heightened awareness of the potential of digital communication and apply their knowledge in creating documents considering the needs of the netizens.
CO-05	<b>Creating/Applying</b>	Propose their outlook through exposure to new and different experiences and ideas and enrich their understanding of the issues under discussion.



UNIT NO.	UNIT NAME	Hours
1	Advanced Listening & Speaking Skills	6
2	Advanced Reading & Writing Skills	6
3	Art of Negotiation Skills	4
4	Email Etiquettes	4
5	Group Discussion	5

LIST OF LABS	
1.	Listening Skills II: Analysis of videos/audios by famous personalities
2.	Speaking Skills II: Extempore, Debate etc.
3.	Public Speaking: Key Concepts, Overcoming Stage Fear
4.	Story-Telling Skills: Techniques of Story Telling, Prompts for story creation
5.	Situational Conversational Skills
6.	PowerPoint Presentation Skills-II
7.	Reading Skills II: Technical Writings, Research Papers& Articles
8.	Writing Skills II: Blog Writing &Review Writing
9.	Picture Perception & Discussion
10.	Art of Negotiation: Identify the qualities of successful and unsuccessful negotiators. Identify different negotiation situations to practice during class.
11.	Email Etiquettes
12.	Group Discussion: Dos &Don'ts, Informal GD



# SYLLABUS III Semester



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UNIVERSITY

Member of Association of Indian Universities & Approved by UGC (Govt. of India) under 2(f) & 12(B)



<b>BIDCID3101</b>	<b>HISTORY OF INTERIOR DESIGN-II</b>	<b>2 Credit [LTP: 2-0-0]</b>
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### **A. OBJECTIVE**

Understanding of progression of historical art forms arts, furniture styles, elements and motifs as a reflection of changing influences in the social and cultural context across world cultures and exploring it through design projects.

### **B. COURSE OUTCOME**

- CO1. Understanding the history of Interior design in Modernism Era.
- CO2. Understanding the history of Interior design in the Art Deco and Industrial era.
- CO3. Understanding the history of Interior design of early modernism in Europe and America.
- CO4. Understanding the history of the Ascendancy of modernism.
- CO5. Understanding the history of Interior design of the late Twentieth Century and Contemporary world

### **C. OUTLINE OF THE COURSE**

<b>Unit No.</b>	<b>Title of the unit</b>	<b>Time required for the Unit (Hours)</b>
1.	<b>The Modernism Era</b>	4
2.	<b>Art Deco and Industrial era</b>	4
3.	<b>Early modernism in Europe and America</b>	6
4.	<b>Ascendancy of modernism</b>	4
5.	<b>Twentieth Century and Contemporary world</b>	6

### **D. DETAILED SYLLABUS**



Unit	Unit Details
<b>1.</b>	<b>The Modernism Era</b>
	<ul style="list-style-type: none"> <li>• The Early commissions</li> <li>• The philosophy of F.L Wright</li> <li>• Pioneers of the International Style</li> <li>• Gropius and Bauhaus</li> <li>• The philosophy of Mies Van der Rohe</li> <li>• Philosophy of Le Corbusier and Alvar Aalto</li> </ul>
<b>2.</b>	<b>Indo Islamic and Mughal Architecture</b>
	<ul style="list-style-type: none"> <li>• Art Deco</li> <li>• Expressionism</li> <li>• Industrial Design</li> <li>• Residential Design</li> </ul>
<b>3.</b>	<b>Early modernism in Europe and America</b>
	<ul style="list-style-type: none"> <li>• The Netherlands, Germany and Austria, Italy Switzerland, Scandinavia</li> <li>• Architects and Designers in Modern America</li> <li>• Interior Decoration: The reaction to Modernism</li> <li>• Furniture and other Interior Furnishings</li> </ul>
<b>4.</b>	<b>Ascendancy of modernism</b>
	<ul style="list-style-type: none"> <li>• Italy</li> <li>• Scandinavia</li> <li>• France and Germany The Netherlands</li> <li>• United States</li> <li>• Furniture and other Interior Furnishings</li> </ul>
<b>5.</b>	<b>Twentieth Century and Contemporary world</b>
	<ul style="list-style-type: none"> <li>• Prophets of Design</li> <li>• High-Tech</li> <li>• Post-Modernism</li> <li>• The revival of Tradition</li> <li>• Contemporary Interior design</li> </ul>

## **E. RECOMMENDED STUDY MATERIAL**

Sr. No.	Book	Author	Edition	Publication
1.	Indian Architecture (Islamic Period)	Percy Brown	Latest	Taraporevala and Sons, Bombay



2.	The Architecture of India (Buddhist and Hindu period)	Satish Grover	1981	Vikas Publishing House
3.	History of Architecture	Sir Banister Fletcher		CBS Publishers & distributors, New Delhi
4.	Monuments of India, Vol I, Buddhist, Jain, Hindu	George Mitchell	1990	Penguin books

## **F. EVALUATION**

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

<b>BIDCID3102</b>	<b>MATERIAL STUDY - I</b>	<b>2 Credit [LTP: 2-0-0]</b>
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## **A. OBJECTIVE**

Subject provides knowledge of the different Building materials used in interiors and exteriors. The objective of the course is:

- To create awareness about the properties of various materials used in the interiors and their application in various components of design, while highlighting current trends and innovations.
- To understand basic building material in the context of various construction methods.
- To focus on various building materials based on the performance, standards and codes, wherein application of each material would be discussed in detail, both in the context of historical and contemporary methodology.
- To study and compare the material and construction techniques.
- To focus on latest trends in practice and usage of new technology/materials

## **B. COURSE OUTCOME**

After studying this course you should be able to:

- CO1. Examine the critical role of materials and their application methods in a building construction.
- CO2. Understand the materials like Brick, rocks, stone, trees and timber in the context of Interior Design
- CO3. Gaining knowledge of all materials, their applications in various spaces in interiors and being updated with current market trends.
- CO4. Understand their properties, characteristics and applications in various design components like walls, floors, roofs, staircases, furniture finishes.
- CO5. Analyze building materials, its components, uses and techniques for construction.

## **C. OUTLINE OF THE COURSE**





Unit No.	Title of the unit	Time required for the Unit (Hours)
1.	Rocks	5
2.	Bricks	5
3.	Stone	5
4.	Trees	5
5.	Timber	4

## **D. DETAILED SYLLABUS**

Unit	Unit Details
<b>1.</b>	<b>ROCKS</b>
	<ul style="list-style-type: none"> <li>• Introduction to the Unit</li> <li>• Classification of rocks (Igneous, Sedimentary &amp; Metamorphic)</li> <li>• Geological, physical &amp; chemical classification of rocks</li> <li>• Sources of stones</li> <li>• Rock-forming minerals</li> <li>• Texture or structure of rock &amp; its use in interiors.</li> <li>• Conclusion &amp; Summary of the unit.</li> </ul>
<b>2.</b>	<b>BRICK</b>
	<ul style="list-style-type: none"> <li>• Introduction to the Unit</li> <li>• Comparison of brickwork and stone work</li> <li>• Composition of good brick earth-Alumina, Silica, Lime, Oxide of iron, Magnesia</li> <li>• Harmful ingredients in brick earth-Lime, Iron pyrites, Alkalies, Pebbles, Vegetation and organic, matter, etc.</li> <li>• Classification of brick earth-Loamy, mild or sandy clay, Marls, chalky or calcareous clay, Plastic, strong or pure clay, etc.</li> <li>• Manufacture of bricks, Properties of bricks &amp; qualities of bricks</li> <li>• Shape, tests, classification &amp; uses of bricks</li> <li>• Conclusion &amp; Summary of the unit.</li> </ul>
<b>3</b>	<b>STONE</b>
	<ul style="list-style-type: none"> <li>• Introduction to the Unit</li> <li>• Tests of stones &amp; their uses in interiors.</li> <li>• Qualities of a good building stone, stone quarrying, dressing of stone</li> <li>• Deterioration, preservation of stones</li> <li>• Artificial stones, Forms of artificial stones &amp; Advantages of artificial stones</li> <li>• Conclusion &amp; Summary of the unit.</li> </ul>



<b>4</b>	<b>TREES</b>
	<ul style="list-style-type: none"> <li>• Introduction to the Unit</li> <li>• Converted Timber, Rough Timber &amp; Standing Timber</li> <li>• Trees for life their innovative use in interiors.</li> <li>• Classification of trees (Exogenous trees &amp; Endogenous trees)</li> <li>• Structure of a tree (Macrostructure &amp; Microstructure)</li> <li>• Conclusion &amp; Summary of the unit.</li> </ul>
<b>5</b>	<b>TIMBER</b>
	<ul style="list-style-type: none"> <li>• Introduction to the Unit</li> <li>• Defects, Qualities, decay and preservation in timber</li> <li>• Advantages &amp; Disadvantages of timber construction</li> <li>• Uses of timber in interiors, Method of seasoning &amp; Storage of timber</li> <li>• Properties, characteristics and application of all the discussed materials in various design components like walls, floors, roofs, staircases, furniture finishes</li> <li>• Market Survey of these materials.</li> </ul>

## **E. RECOMMENDED STUDY MATERIAL**

Sr. No.	Book	Author	Edition	Publication
1.	Engineering Materials	S.C. Rangwala	28 <sup>th</sup>	Charatar Publishing house
2.	Building Materials	P.C. Uarghese	7 <sup>th</sup>	Ashoke K. Ghosh
3.	Elementary Building Construction	Moxley, R. Mitchell		Technical Press Ltd.
4.	K.P. Engineering Materials used in India.	Chowdary	7 <sup>th</sup>	Oxford and IBH, New Delhi, 1990
5.	Building Construction Illustrated	Francis D. Ching		Wiley publishers, 2008.
6.	Building Construction: Planning Techniques and Methods of Construction	Bindra, S.P. and Arora	19 <sup>th</sup>	Dhanpat Rai Pub., New Delhi, 2000

## **F. EVALUATION**



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

<b>BIDCID3201</b>	<b>INTERIOR DESIGN STUDIO – II</b>	<b>6 Credit [LTP: 0-4-4]</b>
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### **A. OBJECTIVE**

The objective of the course is:

- To help students to understand the character and nature of spaces, scale, and various layers of design within a space.
- To apply principles of aesthetics, function, and narrative in design.
- To communicate abstract and functional ideas in graphical form
- To impart an understanding of perception of interior space through design elements. This course focuses on the practical application of all the subjects in the design studio.
- For the entire semester, you will take up a single design project – an **Individual Habitat Space (Apartment, Bungalow etc.)**, which is divided into three stages: Habitation, Transformation, and Expansion. Each of the stages builds on the learning of the prior stage, as well as research carried out in the other subjects taken during the semester.

### **B. COURSE OUTCOME**

After studying this course you should be able to:

- CO1. Observe, research, document, and apply ergonomic and anthropometric aspects of interior design with respect to individual habitats.
- CO2. Understand the relationship between scale, volume, activity, sequence of movement, perception, and aesthetic principles within individual spaces.
- CO3. To understand all the dynamics involved within the design problem introduced
- CO4. To Ideate, Innovate and Experiment with the design form, spaces, inter-relationship in all functions, zoning, etc.
- CO5. To transfer the conceptual idea into drawings and detailed design

### **C. OUTLINE OF THE COURSE**

Unit No.	Title of the unit	Time Required for the Unit (Hours)



1	<b>Introduction to Design Process</b>	24
2	<b>Pre-Design Studies &amp; project brief</b>	16
3	<b>Zoning &amp; spatial planning</b>	16
4	<b>Concept Ideation and development</b>	16
5	<b>Design documentation and development</b>	24

## **D. DETAILED SYLLABUS**

<b>Unit</b>	<b>Contents</b>
<b>1.</b>	<b>Introduction to Design Process</b>
	<ul style="list-style-type: none"> <li>• Introduction of design problem</li> <li>• Lecture on basic design process including user needs, program analysis, area analysis, market survey, site analysis etc.</li> <li>• Discussion based on the existing exercise and the understanding of students.</li> </ul>
<b>2.</b>	<b>Pre-Design Studies &amp; project brief</b>
	<ul style="list-style-type: none"> <li>• Case Studies/ Standards/ Anthropometrics/ Literature Studies.</li> <li>• Understanding Project Brief/ Drawing of Spaces &amp; Area/ Requirement and how to read a project brief. Which includes interior designing of a habitat space.</li> <li>• Identifying the design scope &amp; limitations.</li> <li>• Critical analysis of case studies and inferences outcome.</li> <li>• Conclusion and summary of unit.</li> </ul>
<b>3.</b>	<b>Zoning &amp; spatial planning</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Compilation of Site Analysis/ Zoning/ Bubble Diagram and Circulation Diagram/ Site Planning</li> <li>• Formulation of design through elements and principles of design.</li> <li>• Applications of Ordering principal such as axis, symmetry, hierarchy, datum, rhythms, repetition, visual perception proximity, repetition, simplest and largest figure, continuity and closure, figure and ground relationship</li> <li>• Research on Design Styles.</li> <li>• Conclusion and summary of unit.</li> </ul>
<b>4.</b>	<b>Concept Ideation and development</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Concept Drawing and Design/ Plans/ Sections/ Elevation/ Views and Models</li> <li>• Creating Design options based on the approved concept</li> </ul>



	<ul style="list-style-type: none"> <li>• Creating Plans, elevations &amp; sections of the final Design.</li> <li>• Conclusion and summary of unit.</li> </ul>
<b>5.</b>	<b>Design documentation and development</b>
	<ul style="list-style-type: none"> <li>• Documentation of the design project in the desired medium, with views and models.</li> </ul>

**NOTE:** The student should have a plan ready before starting the design project. The students will only work on interior spaces of the Project.

## **E. RECOMMENDED STUDY MATERIAL**

<b>Sr. No.</b>	<b>Book</b>	<b>Author</b>	<b>Edition</b>	<b>Publication</b>
1.	Designs for 20th century Interiors	Fiona Leolie	2000	VH Publications, London
2.	Interior Design; The New Freedom	Barbara Lec Diamonstein	1982	Rizzoli International Publications, New York,
3.	Interior Colour by Design	Jonathan Poore	1994	Rockport Publishers
4.	Worldwide Interiors – International Federation of Interior Architects & Designers,	Rikuyo-Sha	1987	Japan,
5.	Time Saver Standards for Interior Design	Joseph De Chiara	Latest	McGraw Hill, New York

## **F. EVALUATON**

Continuous assessment of session work may consist of evaluation of individual's drawing & presentation skills, project work, power point presentations etc.



**BIDCID3202****DRAWING, COLOUR STUDY &  
GRAPHICS - III****3 Credit [LTP: 0-2-2]**

### A. OBJECTIVE

The objective of the course is:

- To introduces the fundamentals of drawing through line as primary element.
- To introduces simple to complex process of drawing required to visualize the ideas.

### B. COURSE OUTCOME

After studying this course you should be able to:

- CO1. Understand the scale of drawing and its importance in visualization.
- CO2. Understand the sketching techniques about 3D visualization of furniture.
- CO3. Explore basic knowledge of rendering techniques and gradients.
- CO4. Understand the process of providing shades and shadow by the use of rendering technique.
- CO5. Explore the new ideas through implementation of nature and object drawing in different medium and scales with rendering techniques.

### C. OUTLINE OF THE COURSE

Unit No.	Title of the unit	Time Required for the Unit (Hours)
1	Three-dimensional drawing and sketches - I	8
2	Three-dimensional drawing and sketches - II	8
3	Anthropometry	8
4	Perspective Views- I	12
5	Perspective Views- II	12

### D. DETAILED SYLLABUS

Unit	Contents
1.	Three-dimensional drawing and sketches - I



	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Isometric projection of platonic solids (such as: cube, cuboid, hexagonal prism, pyramids, cone and sphere etc.) Isometric projection of singly and doubly curve surfaces. Isometric View: like Tables, Chairs, Cylindrical &amp; Spherical elements etc.</li> <li>• Conclusion and summary of unit.</li> </ul>
<b>2.</b>	<b>Three-dimensional drawing and sketches - II</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Axonometric View- Interior views for living room, Toilet, Dining Room etc.</li> <li>• Orthographic projections – (eg. Projection of lines, planes and solids, section of primary solids such as pyramids, cones, cylinder, prism, sphere, cuboids, etc.)</li> </ul>
<b>3.</b>	<b>Anthropometry</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Sketching of anthros in different postures, in accordance with scale and proportion of surroundings.</li> <li>• Conclusion and summary of unit.</li> </ul>
<b>4.</b>	<b>Perspective Views- I</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• One point perspective – free hand sketches.</li> <li>• Conclusion and summary of unit.</li> </ul>
<b>5.</b>	<b>Implementation</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Implementation of Perspective Views – current design project.</li> <li>• Conclusion and summary of unit.</li> </ul>

## **E. RECOMMENDED STUDY MATERIAL**

<b>Sr. No.</b>	<b>Book</b>	<b>Author</b>	<b>Edition</b>	<b>Publication</b>
<b>1.</b>	Drawing – A creative Process	Francis D.K. Ching	Latest	John Wiley Sons, New York
<b>2.</b>	How to paint & draw	Bodo W.Jaxtheimer		Thames & Hudson, London
<b>3.</b>	Geometrical drawing for art students 2nd revised edition	I.H.Morris	Latest	Orient Longman, Calcutta
<b>4.</b>	Architectural drafting and design, 4th edition	Ernest R. Weidhaas	Latest	Allyn and Bacon, Boston



5.	Arts in Society	Trewin Copplestone,	Latest	Prentice Hall Inc.
6.	Art through Ages.	H. Gardner	Latest	

## **F. EVALUATION**

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

<b>BIDCID3203</b>	<b>FURNITURE DESIGN-I</b>	<b>3 Credit [LTP: 0-2-2]</b>
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## **A. OBJECTIVE**

To acquire practices of craftsmanship and sensitize the student's visual perception of furniture as a single form through the study and presentation of precedent works - both historical and contemporary & to cultivate the ability necessary to design by understanding the user-activity, structural concepts of furniture, materials and their essential attributes.

## **B. COURSE OUTCOME**

After studying this course you should be able to:

- CO1. To impart the knowledge of various styles, systems and products available in the market.
- CO2. Enhances the knowledge of ergonomics, materials, design and working parameters in designing furniture.
- CO3. To gain knowledge about the history of furniture.
- CO4. To identify different furniture systems.
- CO5. To know about the furniture detailing & its construction. To learn to implement furniture design into design project.

## **C. OUTLINE OF THE COURSE**

Unit No.	Title of the unit	Time required for the Unit (Hours)
1.	Introduction	9
2.	History of Furniture	9
3.	Furniture Systems	10
4.	Furniture Detailing and Construction	10
5.	Implementation in Design Problem	10

## **D. DETAILED SYLLABUS**

Unit	Unit Details
1.	Introduction





	<ul style="list-style-type: none"> <li>• Introduction to Furniture Design.</li> <li>• Human factors, engineering and ergonomic considerations.</li> <li>• Principles of universal design and their application in furniture design.</li> <li>• Overview of Furniture categories.</li> <li>• Exploration of the idea of furniture, role of furniture in interior design,</li> <li>• Design approaches in furniture design.</li> </ul>
<b>2.</b>	<b>History of Furniture</b>
	<ul style="list-style-type: none"> <li>• Awareness of the relationship of design history in order to create new designs in furniture.</li> <li>• An outline of the evolution of furniture from Ancient to present:</li> <li>• Various stylistic transformations.</li> <li>• Furniture designers and movements.</li> <li>• Exploration of furniture in terms of human values, social conditions, technology and design criteria.</li> <li>• Understanding the current design trends and the future visions in the field of furniture design.</li> </ul>
<b>3.</b>	<b>Furniture Systems</b>
	<ul style="list-style-type: none"> <li>• Furniture design for various context and spaces – residences, corporate, commercial etc. in terms of Seating design; Storage systems- kitchen cabinets, wardrobes, closets, book shelves, showcases, display systems etc.;</li> <li>• Multi-functional &amp; space-saving furniture; modular approach to furniture design.</li> </ul>
<b>4.</b>	<b>Furniture Detailing and Construction</b>
	<ul style="list-style-type: none"> <li>• Introduction to different materials, joinery details and manufacturing methods most frequently adopted in furniture design such as Injection Molding, investment casting, sheet metal work, die casting, blow-molding, vacuum - forming etc.</li> </ul>
<b>5.</b>	<b>Implementation in Design Problem</b>
	<ul style="list-style-type: none"> <li>• Exercise oriented by innovative explorations, observation and constrains, to design a furniture, by providing measured drawing – plan, elevation and detailing on full scale, supported by prototype.</li> </ul>

## **E.RECOMMENDED STUDY MATERIAL**

<b>Sr. No.</b>	<b>Book</b>	<b>Author</b>	<b>Edition</b>	<b>Publication</b>
1.	The Encyclopedia of Furniture	Joseph Aronson	Third Edition 1961	



2.	Mid-Century Modern: Interiors, Furniture, Design Details	Bradley Quinn	2006	
3.	Furniture: A Concise History (World of Art)	Edward Lucie Smith	1985	Thames and Hudson

## **F. EVALUATION**

Continuous assessment of session work may consist of evaluation of individual's work.

<b>BIDCID3204</b>	<b>BUILDING SERVICES-I</b>	<b>2 Credit [LTP: 0-1-2]</b>
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## **A. OBJECTIVE**

The course provides an understanding of the Building services for Spaces in Building. The students learn about the basic concepts of the various elements that help in the functioning of the proper services of a complex interior environment such as a residential/commercial/Commercial & Retail/institutional space.

The objective of the course is:

- To understand the importance of human comforts in interior space and built environments
- To understand Built forms in context of environmental climatology and artificial environments for interiors
- To understand the importance of Services and linkages in the context of Interior Design
- To develop an appreciation of Electrical, Plumbing and HVAC as the spine of interior architecture and design solutions

## **B. COURSE OUTCOME**

After studying this course you should be able to:

- CO1. Develop critical appreciation and understanding of basic service (Electrical/plumbing/HVAC) solutions for interior spaces.
- CO2. Describe the processes involved in developing services and linkages for interior spaces and built environments.
- CO3. Observe, report and analyze the impact of services on interior spaces.
- CO4. Describe theories for services and linkages, context, technology, current trends and strategies for services design for built environments.
- CO5. Develop awareness of innovative, functional and appropriate service design solutions catering to specific briefs, for different interior spaces.

## **C. OUTLINE OF THE COURSE**

Unit No.	Title of the unit	Time required for the Unit (Hours)
1.	<b>Electrical Distribution</b>	7
2.	<b>Mains and Sub Distribution</b>	7
3.	<b>Layout System</b>	7



4.	Service Systems	7
5.	Quality and Quantity of different Sources of light	8

#### **D. DETAILED SYLLABUS**

Unit	Unit Details
<b>1.</b>	<b>Electrical Distribution</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Lighting and vision, basic units, photometry and measurement.</li> <li>• Effects of good lighting, considerations for good lighting, brightness, glare, contrast and diffusion.</li> <li>• Economic issues of lighting.</li> <li>• Importance of electrical distribution,</li> <li>• Day light – advantages, admitting daylight, controlling daylight – multiple glazing, orientation, window treatments, potentials of day lighting as an energy resource.</li> <li>• Artificial lighting - color characteristics of artificial lighting, integration of day lighting with artificial lighting, lighting controls, intelligent building systems for lighting, switches, dimmers.</li> <li>• Types of electrical distribution systems, wiring system</li> <li>• Conclusion and summary of unit.</li> </ul>
<b>2.</b>	<b>Mains and Sub Distribution</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Laws of illumination, switches and controls, general aspects of design of electrical domestic installations, power and light loads, MCB, MCCB, SFU, ELCB.</li> <li>• Conclusion and summary of unit.</li> </ul>
<b>3</b>	<b>Layout System</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Classification of voltages, Layout system for lighting, fans, telephones</li> <li>• Types of lighting.</li> <li>• Conclusion and summary of unit.</li> </ul>
<b>4</b>	<b>Service Systems</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Lifts, pumps, air-conditioning system, computer systems, etc. pipe and plate earthing, lighting protection in buildings.</li> <li>• Conclusion and summary of unit.</li> </ul>
<b>5</b>	<b>Quality and Quantity of different Sources of light</b>



	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Lighting, Design for lighting, Classification of lighting. Fixtures &amp; Fittings available in the market.</li> <li>• Daylight, incandescent, fluorescent, halogen, electric gas discharge high discharge, neon, cold cathode, mercury, sodium vapor etc. lighting levels, visual field. Survey of lamps available in the market with cost and technical specifications.</li> <li>• Lamps and lighting fixtures – Floor, table and desk, wall mounted, ceiling units, built in lighting, miscellaneous types, decorative lighting, spot lighting, task lighting, underwater lighting etc.</li> <li>• Conclusion and summary of unit.</li> </ul>
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## **E. RECOMMENDED STUDY MATERIAL**

Sr. No.	Book	Author	Edition	Publication
1.	Electrical Design, Estimating and costing	K. B. Raina, S. K. Bhattacharya		
2.	Electrical wiring, Estimating and costing	S.L.Uppal	2005	Khanna Publishers, New Delhi
3.	Electrical wiring	J. B. Gupta,	2005	S.K. Kataria & Sons, Delhi
4.	Bureau of Indian Standards – IS 732, IS 742, IS 3043			
5.	National electrical Code (NEC)			
6.	House Wiring Hand Book,			International Copper Promotion Council (India), Power
7.	Guide for Electrical Layout in Residential Building		IS46481 968	Bureau of India Standards, Delhi

## **F. EVALUATON**

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



<b>BIDCID3205</b>	<b>COMPUTER APPLICATION - III</b>	<b>2 Credit [LTP: 0-1-2]</b>
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### **A. OBJECTIVE**

Exposure to CAD will help students to produce their operation and critical parameters. Presentations for large gatherings, corporate clients-using CAD drawings, pictures, 3D images, text etc.

The objective of the course is:

- To develop advanced 2D design exploration, drafting and visualization skills using AutoCAD and develop advanced modeling and presentation skills for interior design
- To initiate, scope, execute, and validate self-directed/ client projects using AutoCAD.
- To introduce the fundamental concepts of computer systems; hardware and software and to develop basic skills in programming, Application of Information Technology tools and technical in Architecture.

### **B. COURSE OUTCOME**

After studying this course you should be able to:

- CO1. Identify the process of visualizing in depth and detail in AutoCAD and related software's.
- CO2. Develop an understanding of AutoCAD as a vital tool that aids the designer in visualizing, detailing, costing and presenting interior design projects.
- CO3. Demonstrate an understanding of the symbiosis of conceptual and technical skills required by a designer, to cope with industry changes, and the impact of new technologies.
- CO4. Understand the role of AutoCAD in the ongoing evolution of the practice of Interior design & Architecture
- CO5. Develop and synthesize an effective, aesthetically pleasing, appropriate, innovative, persuasive 3D

### **C. OUTLINE OF THE COURSE**

<b>Unit No.</b>	<b>Title of the unit</b>	<b>Time required for the Unit (Hours)</b>
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1.	<b>Introduction to Auto CAD</b>	<b>9</b>
2.	<b>Map Digitization on AutoCAD</b>	<b>9</b>
3.	<b>Advance AutoCAD</b>	<b>6</b>
4.	<b>Introduction to 3D Drafting</b>	<b>6</b>
5.	<b>Rendering and Presentation</b>	<b>6</b>

#### **D. DETAILED SYLLABUS**

<b>Unit</b>	<b>Unit Details</b>
<b>1.</b>	<b>Introduction to Auto CAD</b>
	<ul style="list-style-type: none"> <li>• Introduction to the Unit</li> <li>• Basic introduction of Auto CAD, basic commands like line, trim, move, copy, circle, etc. To use AutoCAD to make plans, sections and elevations by projecting lines and usage of layers</li> <li>• Conclusion in AutoCAD. &amp; Summary of Unit</li> </ul>
<b>2.</b>	<b>Map Digitization on AutoCAD</b>
	<ul style="list-style-type: none"> <li>• Introduction to the Unit</li> <li>• To use AutoCAD for rasterizing a scanned map.</li> <li>• Conclusion &amp; Summary of the unit.</li> </ul>
<b>3.</b>	<b>Advance AutoCAD</b>
	<ul style="list-style-type: none"> <li>• Introduction to the Unit</li> <li>• Introduction to Unit, Drafting in layers, altering layer properties, Dimensioning and dimensioning styles, Important commands like Blocks, align, xref etc., Tagging in AutoCAD.</li> <li>• Conclusion &amp; Summary of the unit.</li> </ul>
<b>4.</b>	<b>Introduction to 3D Drafting</b>
	<ul style="list-style-type: none"> <li>• Introduction to the Unit</li> <li>• Introduction to 3D modelling techniques and construction planes, drawing objects, 3D surfaces, setting up elevation and thickness, and use of dynamic projections. Solid modeling with driving, primitive command and Boolean operations. Use of region modelling &amp; solid modifiers.</li> <li>• Conclusion &amp; Summary of the unit.</li> </ul>
<b>5.</b>	<b>Rendering and Presentation</b>
	<ul style="list-style-type: none"> <li>• Introduction to the Unit</li> <li>• Rendering and presentation of your current design project.</li> <li>• Printing and plotting.</li> <li>• Conclusion &amp; Summary of the unit.</li> </ul>

#### **E. RECOMMENDED STUDY MATERIAL**

<b>Sr. No.</b>	<b>Book</b>	<b>Author</b>	<b>Edition</b>	<b>Publication</b>
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1.	principles of Computer Programming	V. Rajaraman,		Prentice Hall of India
2.	Auto CAD Reference Manual		1998	Autodesk UNC

## **F. EVALUATION**

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

<b>BIDCID3206</b>	<b>BUILDING CONSTRUCTION - I</b>	<b>2 Credit [LTP: 0-1-2]</b>
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## **A. OBJECTIVE**

The objective of the course is:

- To focus on various building materials and construction techniques.
- To emphasize on the performing standards and codes.
- To understand application of each material in detail, both in the context of historical and contemporary methodology. With time, each topic can also focus on latest trends in practice and usage of new technology/materials.
- To understand importance of water proofing and damp proofing in building construction.
- To strengthen student's knowledge about reinforced cement concrete and its applications in buildings.
- To equip students about the methods of designing various structural members using reinforced cement concrete.

## **B. COURSE OUTCOME**

After studying this course you should be able to:

- CO1. Understand the construction of Brick Masonry, types of brick masonries.
- CO2. Understand the construction types of Stone Masonry & brick masonries.
- CO3. Understand the construction of Foundation & Superstructure, types of foundations and the details about the entire one wall of a building.
- CO4. Understand the construction with Spanning of Openings
- CO5. Understand the construction of Earthquake Resistant Masonry Construction

## **C. OUTLINE OF THE COURSE**

Unit No.	Title of the unit	Time required for the Unit (Hours)
1.	Introduction to Brick Masonry	7
2.	Introduction to Stone Masonry	7
3.	Foundation & Superstructure	7



4.	Spanning of Openings	7
5.	Earthquake Resistant Masonry Construction	8

## **D. DETAILED SYLLABUS**

Unit	Unit Details
1.	<b>Introduction to Brick Masonry</b>
	<ul style="list-style-type: none"> <li>• Introduction to the Unit</li> <li>• Types of brick bats &amp; closers</li> <li>• Types of Brick bonds for wall masonry- half, single, one &amp; half thick wall, Cavity wall, Jointing &amp; pointing &amp; bonding of bricks</li> <li>• Wall section (plinth, floor, sill, lenth, roof &amp; parapet)</li> <li>• Conclusion &amp; Summary of the unit.</li> </ul>
2.	<b>Introduction to Stone Masonry</b>
	<ul style="list-style-type: none"> <li>• Introduction to the Unit</li> <li>• Types of stone masonry</li> <li>• Random rubble masonry – Coursed &amp; un-coursed, Square rubble brought to course, Square rubble course</li> <li>• Ashlar Masonry.</li> <li>• Conclusion &amp; Summary of the unit.</li> </ul>
3.	<b>Foundation &amp; Superstructure</b>
	<ul style="list-style-type: none"> <li>• Introduction to the Unit</li> <li>• General introduction to types of foundation</li> <li>• Foundation in brick &amp; stone masonry</li> <li>• General introduction to types of superstructure</li> <li>• Roofing systems</li> <li>• Stone flooring and Brick flooring.</li> <li>• Conclusion &amp; Summary of the unit.</li> </ul>
4.	<b>Spanning of Openings</b>
	<ul style="list-style-type: none"> <li>• Introduction to the Unit</li> <li>• Lintels in Stone and brick masonry</li> <li>• Introduction to various types of arches</li> <li>• Construction of Brick &amp; Stone arches</li> <li>• Conclusion &amp; Summary of the unit.</li> </ul>
5.	<b>Earthquake Resistant Masonry Construction</b>





	<ul style="list-style-type: none"> <li>• Introduction to the Unit</li> <li>• Introduction to Earthquake resistant Masonry Construction</li> <li>• Construction details of Earthquake resistant brick and stone masonry and additional provisions made to it.</li> <li>• Dry stone masonry</li> <li>• Conclusion &amp; Summary of the unit.</li> </ul>
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### **E. RECOMMENDED STUDY MATERIAL**

Sr. No.	Book	Author	Edition	Publication
1.	Building construction	B.C.Punmia	10 <sup>th</sup>	Laxmi publication
2.	Building construction	S.C.Rangwala	29 <sup>th</sup>	Charat ar publication
3.	A Text Book of Building Construction	S.P. Arora, S.P.Bindra	5 <sup>th</sup>	Dhanpat Ra
4.	Building construction illustrated	FRANCIS D. K. CHING	3 <sup>rd</sup>	
5.	Building Constructions (1 to 4 vol.)	Mckay, W.B.		

### **F. EVALUATION**

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



<b>BULCHU3201</b>	<b>HUMAN VALUE AND PROFESSIONAL ETHICS</b>	<b>1 Credit [LTP: 0-0-2]</b>
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### **COURSE OUTCOMES:**

On successful completion of the course the learners will be able to:

<b>CO</b>	<b>Cognitive Abilities</b>	<b>Course Outcomes</b>
<b>CO-01</b>	<b>Understanding/ Applying</b>	Understand the importance of human values and learn from others' experiences to become the conscious practitioners of the same.
<b>CO-02</b>	<b>Understanding/ Applying</b>	Enhance their self-esteem, confidence and assertive behaviour to handle difficult situations with grace, style, and professionalism.
<b>CO-03</b>	<b>Understanding/ Applying</b>	Distinguish among various levels of professional ethics while developing an understanding of them as a process in an organization.
<b>CO-04</b>	<b>Understanding / Applying</b>	Implement emotional intelligence to achieve set targets and excel in interpersonal as well as intrapersonal
<b>CO-05</b>	<b>Understanding/Applying</b>	Demonstrate knowledge of personal beliefs and values and a commitment to continuing personal reflection and reassessment.

<b>UNIT NO.</b>	<b>UNIT NAME</b>	<b>Hours</b>
<b>1</b>	Introduction to Human Values	6
<b>2</b>	Study of Self	4
<b>3</b>	Introduction to Professional Ethics	4
<b>4</b>	Emotional Intelligence	6



5	Life Skills & Value Education	5
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LIST OF LABS	
1.	Human Values: Love & Compassion
2.	Truth, Non-Violence, Righteousness
3.	Peace, Service, Renunciation (Sacrifice)
4.	Self-Esteem: Do's and Don'ts to develop positive self-esteem
5.	Self-Assertiveness: Development of Assertive Personality
6.	Ambition & Desire: Self & Body (concepts & differences )
7.	Professional Ethics: Personal & Professional Ethics
8.	Emotional Intelligence: Skill Building for Strengthening the Elements of Self-awareness, Self-regulation, Internal motivation, Empathy, Social skills
9.	Governing Ethics & Ethics Dilemma
10.	Profession, Professionalism & Professional Risks
11.	Professional Accountabilities & Professional Success
12.	Life Skills & Value Education



# SYLLABUS IV Semester



*Your Dreams Our Goal*  
**POORNIMA**  
UNIVERSITY

Member of Association of Indian Universities & Approved by UGC (Govt. of India) under 2(f) & 12(B)



**A. OBJECTIVE**

The objective of the course is:

- To understand one of the most important steps to bring a design to life is by actually constructing and this subject introduces students to the basics of interior construction.

**B. COURSE OUTCOME**

After studying this course you should be able to:

- CO1. Understand the composition, construction, and finishes applied on fabrics for furnishings.
- CO2. Analyze recent trends in furnishings
- CO3. Gather information on various household linen, their selection and care.
- CO4. Adopt various window treatments in interiors.
- CO5. Apply the, Residential security systems, Commercial security in their projects

**C. OUTLINE OF THE COURSE**

Unit No.	Title of the unit	Time required for the Unit (Hours)
1.	Home Furnishings	6
2.	Commercial Furnishings	6
3.	Security System	4
4.	Lighting Fixtures	4
5.	Other Fixtures	4

**D. DETAILED SYLLABUS**

Unit	Unit Details
1.	<b>Home Furnishings</b>
	<ul style="list-style-type: none"> <li>Introduction of unit</li> <li>Develop a motif suitable for foot mat, window grill, table mat and furnishing materials. Window Treatments – Types of windows, curtains, draperies, hanging curtains, pelmets and valances, accessories, blinds, shades. Cushion, cushion covers, Slip covers, bed linens, and Table linens.</li> <li>Conclusion and summary of unit.</li> </ul>
2.	<b>Commercial Furnishings</b>

	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Introduction, Venetian Blinds, Modern furnishing materials, Partitions etc.</li> <li>• Conclusion and summary of unit.</li> </ul>
<b>3.</b>	<b>Security System</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Introduction, Residential security systems, Commercial security Systems.</li> <li>• Conclusion and summary of unit.</li> </ul>
<b>4.</b>	<b>Lighting Fixtures</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Introduction, types of light fixtures, decorative fixtures etc.</li> <li>• Conclusion and summary of unit.</li> </ul>
<b>5.</b>	<b>Other Fixtures</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Furniture fixtures, Decorative etc.</li> <li>• Conclusion and summary of unit.</li> </ul>

### **E. RECOMMENDED STUDY MATERIAL**

<b>Sr. No.</b>	<b>Book</b>	<b>Author</b>	<b>Edition</b>	<b>Publication</b>
1.	Inside today's home	Faulkner, R. and Faulkner	Latest	Rinebart Winston, New York
2.	Interior Design & Decoration	Sherril Whiton	Latest	Prentice Hall
3.	Introduction to home furnishings	Stepat, D.D	Latest	The macmillan company, New York
4.	The themes and Hudson manual of textile printing	Storey joyce	Latest	London
5.	Colour in interior Design	Jhon, F.P	Latest	Mc Graw Hill Company

### **F. EVALUATION**

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

## **A. OBJECTIVE**

Subject provides knowledge of the different Building materials used in interiors and exteriors.

The objective of the course is:

- To understand advance building material in the context of various construction methods.
- To focus on various building materials based on the performance, standards and codes, wherein application of each material would be discussed in detail, both in the context of historical and contemporary methodology.
- To study materials and systems, application of building materials such as Mud, Sand, Lime, Cement & Coarse Aggregates, Plastic & Polymers, Glass & Ceramic, Wood, etc., their properties and applications, and their intrinsic relationship to structural systems and environmental performance.
- To study and compare the material and construction techniques.
- To focus on latest trends in practice and usage of new technology/materials.

## **B. COURSE OUTCOME**

After studying this course you should be able to:

- CO1. Measure the required physical, chemical and engineering properties of Building Materials.
- CO2. Select the appropriate construction materials as per construction activities and specifications.
- CO3. Perform the different test for quality assurance of Building Materials.
- CO4. Select and justify appropriate advanced and modern building materials for various applications.
- CO5. Ascertain the current market price of each and every construction material.

## **C. OUTLINE OF THE COURSE**

Unit No.	Title of the unit	Time required for the Unit (Hours)
1.	Sand, Mud & Lime	5
2.	Cement & Coarse Aggregates	5
3.	Plastic & Polymers	4
4.	Glass & Ceramic	5
5.	Wood & it's Derivatives	5

## **D. DETAILED SYLLABUS**

Unit	Unit Details
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<b>1</b>	<b>Sand, Mud &amp; Lime</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Sources of sand &amp; impurities in sand, processing of sand. Classification of sand- pit, river sand, and their properties Alternate fine aggregate: Stone dust.</li> <li>• Properties and characteristics of mud used for binding material in masonry</li> <li>• Different forms of mud construction, Compressed Stabilized earth blocks (CSEB)</li> <li>• The nature of material, visual and textural properties.</li> <li>• Classification and types of lime- Quick &amp; Process of making lime mortar for masonry</li> <li>• Sources of lime and constituents of limestone, Slaking of quicklime</li> </ul> <p>Conclusion and summary of unit.</p>
<b>2</b>	<b>Cement &amp; Coarse Aggregates</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Mortars, concrete and RCC preparation,</li> <li>• Classification</li> <li>• Conclusion and summary of unit.</li> </ul>
<b>3</b>	<b>Plastic &amp; Polymers</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• History, composition, uses, properties etc. Polymerization, classification, resins, fabrication, properties, and uses of plastics.</li> <li>• Conclusion and summary of unit.</li> </ul>
<b>4</b>	<b>Glass &amp; Ceramic</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Classification, composition, properties, types, manufacturing process, treatment of glass, special</li> <li>• varieties of glass etc.</li> </ul>
<b>5</b>	<b>Wood &amp; it's Derivatives</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Veneers, ply boards (advantages and disadvantages of ply boards), industrial timber, industrial form batten, baulk, board, deal, end, hog, plak, pole, quartering, scantling.</li> <li>• Conclusion and summary of unit.</li> </ul>





## **E. RECOMMENDED STUDY MATERIAL**

<b>Sr. No.</b>	<b>Book</b>	<b>Author</b>	<b>Edition</b>	<b>Publication</b>
1.	Engineering Materials	S.C. Rangwala	28 <sup>th</sup>	Charatar Publishing House
2.	Building Materials	P.C. Uarghese	7 <sup>th</sup>	Ashoke K. Ghosh
3.	Building Materials	S.K. Duggal	3 <sup>rd</sup>	New Age International

## **F. EVALUATION**

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



## A. OBJECTIVE

Students must be able to present a project graphically in a medium and a format that enhance the solution to a design problem and communicate clearly to the audience. In this course, students will learn to use a variety of tools and the vocabulary to present their designs in the most effective way.

Site visits will be conducted to understand the nature of project. Group discussions among students is encouraged. This course introduces commercial design for small offices.

The objective of the course is:

- To understand multi-functional workspaces.
- To develop knowledge of complex design principles and processes in the context of interior personal habitats.
- To apply principles of aesthetics, function, and narrative in design.
- To communicate abstract and functional ideas in written, verbal, and graphical form.
- for the entire semester, you will take up a single design project – an **commercial building including office space, workspace interiors**

## B. COURSE OUTCOME

After studying this course you should be able to:

- CO1. Observe, research, document, and apply ergonomic and anthropometric aspects of interior design with respect to individual workspace.
- CO2. Understand the importance of case studies, and learn to do so.
- CO3. To learn to develop design concepts for the design problem introduced.
- CO4. To learn to transfer the conceptual idea into drawings & prepare technical design drawings for a workspace.
- CO5. To and detailed design

## C. OUTLINE OF THE COURSE

Unit No.	Title of the unit	Time Required for the Unit (Hours)
1	Introduction to design Project	20
2	Case Studies	20
3	Design Concept	20
4	Technical drawings	20
5	Layout Plans	20



## **D. DETAILED SYLLABUS**

Unit	Unit Details
<b>1.</b>	<b>Introduction to design Project</b>
	<ul style="list-style-type: none"> <li>To introduce to students, the design of a building with complexities related to workspaces, services, structures and site planning.</li> <li>Conclusion and summary of unit.</li> </ul>
<b>2.</b>	<b>Case Studies</b>
	<ul style="list-style-type: none"> <li>Introduction of unit.</li> <li>Understanding the role &amp; process of a case study.</li> <li>Choose &amp; select relevant case examples related to your project.</li> <li>Understanding the principles and standards of workspace and also the anthropometry and ergonomics inside a given space.</li> <li>Study and analyze an existing workspace w.r.t. the design project.</li> </ul>
<b>3.</b>	<b>Design Concept</b>
	<ul style="list-style-type: none"> <li>Developing concepts for the design project.</li> <li>To help students evolve their design by understanding relationship between form, function and space.</li> <li>Explain your design idea with the help of sketches.</li> </ul>
<b>4.</b>	<b>Technical drawings</b>
	<ul style="list-style-type: none"> <li>Plan, Sectional Elevation, furniture layout.</li> <li>Detailed interior drawings.</li> <li>Make appropriate furniture details.</li> </ul>
<b>5.</b>	<b>Layout Plans</b>
	<ul style="list-style-type: none"> <li>Electrical layout.</li> <li>Lighting layout.</li> <li>Plumbing layout</li> <li>Flooring pattern</li> <li>Ceiling plan</li> <li>Wall finishes</li> </ul>

### **MODEL EXERCISE/ ASSIGNMENTS/ PROJECTS:**

Project: COMMERCIAL INTERIORS/ OFFICES / CORPORATE OFFICES.

## **E. RECOMMENDED STUDY MATERIAL**

Sr. No.	Book	Author	Edition	Publication
1.	Designs for 20th century Interiors	Fiona Leolie	2000	VH Publications, London



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2.	Interior Design; The New Freedom	Barbara Lec Diamonstein	1982	Rizzoli International Publications, New York,
3.	Interior Colour by Design	Jonathan Poore	1994	Rockport Publishers
4.	Worldwide Interiors – International Federation of Interior Architects & Designers,	Rikuyo-Sha	1987	Japan,
5.	Time Saver Standards for Interior Design	Joseph De Chia	Latest	McGraw Hill, New York
6.	Commercial Space, Office Design and Layout	Cerver FA		Rotovision S A

## **F. EVALUATON**

Continuous assessment of session work may consist of evaluation of individual's drawing & presentation skills, project work, power point presentations etc.



**A. OBJECTIVES:**

This course aims to learn the dimensions and the availability of designs used for furniture based on ergonomics applied to furniture design that related end-user needs. The subject orient students about the basic aspects of furniture design studio, and primary aspects attributed to it.

**B. COURSE OUTCOME**

After studying this course you should be able to:

- Understand the importance of furniture design into interiors.
- Understand the different types of manufacturing process.
- Develop an understanding for advanced furniture systems
- Develop a better understanding about furniture design through case specific examples.
- Get efficient enough to apply the knowledge for current project & develop furniture designs for the same.

**C. OUTLINE OF THE COURSE**

Unit No.	Title of the unit	Time required for the Unit (Hours)
1.	Introduction to Furniture design	8
2.	Manufacturing Processes	8
3.	Advanced Furniture Systems	8
4.	Furniture Case-studies	12
5.	Design Problem	12

**D. DETAILED SYLLABUS**

Unit	Unit Details
1.	<b>Introduction to Furniture design</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Human factors, engineering and ergonomic considerations: principles of universal design and their application in furniture design, overview of Furniture categories, exploration of the idea of furniture,</li> <li>• role of furniture in interior design,</li> <li>• Design approaches in furniture design.</li> <li>• Conclusion and summary of unit.</li> </ul>
2.	<b>Manufacturing Processes</b>



	<ul style="list-style-type: none"> <li>• Introduction of unit</li> </ul> <p>Study case examples of the following types of manufacturing processes:- Injection, Molding, Investment casting, Sheet metal work, Die casting, Blow- molding, Vacuum – Forming.</p>
<b>3.</b>	<b>Advanced Furniture Systems</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Furniture design for large scale multi-functional spaces – residences, corporate, commercial etc. in terms of Seating design; Storage systems- kitchen cabinets, wardrobes, closets, book shelves, showcases, display systems etc.; multi-functional &amp; space-saving furniture; modular approach to furniture design.</li> <li>• Conclusion and summary of unit.</li> </ul>
<b>4.</b>	<b>Furniture Case-studies</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Study innovative &amp; advanced contemporary furniture designs (seating / storage).</li> <li>• Conclusion and summary of unit.</li> </ul>
<b>5.</b>	<b>Design Problem</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Exercise oriented by innovative explorations, observation and constrains, to design a furniture, by providing measured drawing – plan, elevation and detailing on full scale, Conclusion and summary of unit of current design project.</li> </ul>

## **E. RECOMMENDED STUDY MATERIAL**

<b>S. N</b>	<b>Reference Book</b>	<b>Author</b>	<b>Publication</b>
1	The Encyclopedia of Furniture	Joseph Aronson,	3 <sup>rd</sup> edition
2	Mid-Century Modern: Interiors, Furniture, Design Details	Bradley Quinn,	Conran Octopus Interiors
3	Furniture Design	Jim Postell,	
4	Furniture: A Concise History (World of Art)	Edward Lucie-Smith	
5	History of Interior Design and Furniture	Robbie. G. Blakemore	

## **F. EVALUATON**

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

### A. OBJECTIVE

The course provides an understanding of the Building services for Spaces in Building. The students learn about the basic concepts of the various elements that help in the functioning of the proper services of a complex interior environment such as a residential/commercial/Commercial & Retail/institutional space.

The objective of the course is:

- To understand the importance of human comforts in interior space and built environments
- To understand Built forms in context of environmental climatology and artificial environments for interiors
- To understand the importance of Services and linkages in the context of Interior Design
- To develop an appreciation of Electrical, Plumbing and HVAC as the spine of interior architecture and design solution

### B. COURSE OUTCOME

After studying this course you should be able to:

- Develop critical appreciation and understanding of basic service (Electrical/plumbing/HVAC) solutions for interior spaces.
- Describe the processes involved in developing services and linkages for interior spaces and built environments.
- Observe, report and analyze the impact of services on interior spaces.
- Understand material choices for designed interiors in the context of climate and services.
- Describe theories for services and linkages, context, technology, current trends and strategies for services design for built environments.

### C. OUTLINE OF THE COURSE

Unit No.	Title of the unit	Time required for the Unit (Hours)
1.	Introduction	6
2.	Principles of Plumbing & Drainage System	6
3.	Layout System	8
4.	Internal Plumbing & Drainage System	8
5.	External Plumbing & Drainage System	8

### D. DETAILED SYLLABUS

Unit	Unit Details
1.	Introduction



	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Requirements of water supply to various buildings</li> <li>• Sources of water, Water purification and conservation</li> <li>• Methods of conveyance of water, and water lines product materials.</li> <li>• Conclusion and summary of unit.</li> </ul>
<b>2.</b>	<b>Principles of Plumbing &amp; Drainage System</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Introduction to Plumbing and drainage and plumbing sanitary systems</li> <li>• General principles of drainage, and drainage lines.</li> <li>• Conclusion and summary of unit.</li> </ul>
<b>3</b>	<b>Layout System</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Basic plumbing requirements &amp; calculations</li> <li>• Conclusion and summary of unit.</li> </ul>
<b>4</b>	<b>Internal Plumbing &amp; Drainage System</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Interior plumbing layouts - Fixtures and hardware</li> <li>• Conclusion and summary of unit.</li> </ul>
<b>5</b>	<b>External Plumbing &amp; Drainage System</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Connection to out-door drainage system</li> <li>• Conclusion and summary of unit.</li> </ul>

## **E. RECOMMENDED STUDY MATERIAL**

<b>Sr. No.</b>	<b>Book</b>	<b>Author</b>	<b>Edition</b>	<b>Publication</b>
1.	Basic plumbing with illustrations	Massey, H.	1st ed. Carlsbad 1994	CA: Craftsman Book Co.
2.	Plumbing design and installation	Ripka, L.	third edition 2006	American Technical Publishers.
3.	Sustainable design for interior environments	Winchip, S	1st ed. 2007	New York: Fairchild.

## **F. EVALUATION**

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





## A. OBJECTIVE

Exposure to CAD will help students to produce their operation and critical parameters. Presentations for large gatherings, corporate clients-using CAD drawings, pictures, 3D images, text etc.

The objective of the course is:

- To develop advanced 2D/3D design exploration, drafting and visualization skills using AutoCAD/Sketch up and develop advanced modelling and presentation skills for interior design
- To initiate, scope, execute, and validate self-directed/ client projects using AutoCAD/Sketch up.
- To introduce the fundamental concepts of computer systems; hardware and software and to develop basic skills in programming, Application of Information Technology tools and technical in Architecture.

## B. COURSE OUTCOME

After studying this course you should be able to:

- To transform 2D shapes to 3D form seamlessly by learning 3D tools in AutoCAD
- 2. To create 3D forms in AutoCAD and combine them to form complete built structures
- 3. To learn different software catering to 3D design and development
- 4. To become proficient in Sketch up by learning commands and applying tips and tricks applicable
- 5. To be able to create a complete 3D building model in sketch up and attach it to an actual site Develop and synthesize an effective, aesthetically pleasing, appropriate, innovative, persuasive 3D

## C. OUTLINE OF THE COURSE

Unit No.	Title of the unit	Time required for the Unit (Hours)
1.	AutoCAD	8
2.	Introduction to Sketch up	10
3.	Sketch up Modelling	10
4.	Design Interpretation	10
5.	Sketch up Advanced	10

## D. DETAILED SYLLABUS

Unit	Unit Details
1.	Auto CAD



	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Review– Drawing plan, section, elevation, making presentation drawing, setting format, checking scale, composing sheet in layout</li> <li>• Conclusion and summary of unit.</li> </ul>
<b>2.</b>	<b>Introduction to Sketch up</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Importing drawing from CAD, selecting scale and units, creating base for modelling, using</li> <li>• Tools for basic modelling i.e. creating 3D box. Use of commands like assembly, group etc. for ease of modelling.</li> <li>• Creating base file.</li> </ul>
<b>3.</b>	<b>Sketch up Modelling</b>
	<ul style="list-style-type: none"> <li>• Using tools to extract building elements like doors, windows, roof, etc. and updating the 3D model. Creating site objects, boundary walls, urban elements, landscape furniture, etc.</li> <li>• Developing complete building with elements</li> </ul>
<b>4.</b>	<b>Design Interpretation</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Development of natural terrain, importing terrain from Google earth and generating real time contours.</li> <li>• Conclusion and summary of unit.</li> </ul>
<b>5.</b>	<b>Sketch up Advanced</b>
	<ul style="list-style-type: none"> <li>• Placing objects from creating models and interiors and modifying properties of elements.</li> <li>• Development of a building &amp; its interiors.</li> </ul>

## **E.RECOMMENDED STUDY MATERIAL**

<b>Sr. No.</b>	<b>Book</b>	<b>Author</b>	<b>Edition</b>	<b>Publication</b>
1.	Online Tutorials – Sketchup	Shetchup Website	Latest	Google
2.	Architectural Design with SketchUp: 3D Modeling, Extensions, BIM, Rendering, Making, and Scripting	Alexander C Shreyer	Latest	John Wiley and Sons
3.	The SketchUp Workflow for Architecture: Modeling Buildings, Visualizing Design,	Michael Brightman	Latest	John Wiley and Sons



	and Creating Construction Documents with SketchUp Pro and LayOut			
4.	Google SketchUp for Site Design: A Guide to Modeling Site Plans, Terrain and Architecture	Daniel Tal	Latest	John Wiley and Sons

## **F. EVALUATION**

Continuous assessment of session work in form of sketches, scaled drawings, study models in various materials, case studies, visit reports, power point presentations etc.

### **A. OBJECTIVE**

The course will provide the students with the knowledge and the skills to understand construction and construction techniques. It introduces the students to a wide range of materials, components and systems including wood, steel, etc. the students research and understand these through market surveys, site visits and other sources. The module also defines the installation of doors, windows, walls, surface treatments and finishes. The students produce a set of working drawings related to the subjects.

The objective of the course is:

- To understand materials and systems, their properties and applications, and their intrinsic relationship to structural systems and environmental performance.
- To develop a fundamental understanding of relationship of materiality to construction systems and techniques.

### **B. COURSE OUTCOME**

After studying this course you should be able to:

- Understand properties of basic building materials, construction and their application in interior Spaces
- Develop knowledge of how to develop strategies for Interior design taking into account structural, material and functional contexts
- Develop an understanding of importance & use of eco-friendly materials in interiors.
- Develop critical appreciation and understanding of R.C.C. foundation & staircase.
- Demonstrate knowledge of structural and functional principles for interior architecture and design.

### **C. OUTLINE OF THE COURSE**

Unit No.	Title of the unit	Time required for the Unit (Hours)
1.	Wooden walls, flooring and Roofing	8
2.	Wooden openings and Shutters	8
3.	Bamboo	8
4.	R.C.C. Foundation Steel Foundation & Staircase	6
5.	False Ceiling & Partitions	6

### **D. DETAILED SYLLABUS**

Unit	Unit Details
1.	Wooden walls, flooring and Roofing



	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Construction details of wood stud framing, wood post</li> <li>• Types of wooden walls – structural and non-structural &amp; beam framing and connections. Construction details of flooring of wood plank</li> <li>• Types of wooden flooring systems &amp; beam framing and wood decking Construction details of roofing of wood plank Types of wooden roofing - flat roof and pitched roofs.</li> <li>• Conclusion and summary of unit.</li> </ul>
<b>2.</b>	<b>Wooden Openings and Shutters</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Door, window and ventilators – fixing of wooden frames, holdfast, horns, hinges, handles, lock etc.</li> <li>• Conclusion and summary of unit.</li> </ul>
<b>3.</b>	<b>Bamboo</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Construction details of Bamboo frame and joinery.</li> <li>• Introduction to Bamboo construction systems.</li> <li>• Conclusion and summary of unit.</li> </ul>
<b>4.</b>	<b>R.C.C. Foundation Steel Foundation &amp; Staircase</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Construction of R.C.C. and steel foundation and footings. DPC, Types of Staircase, Construction details of staircase.</li> <li>• Conclusion and summary of unit.</li> </ul>
<b>5.</b>	<b>False Ceiling &amp; Partitions</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Typical details, various types of false ceiling, application of various types of materials in false ceiling.</li> <li>• Types of partitions, typical details, fixtures of various partitions in partitions and its specifications.</li> <li>• Conclusion and summary of unit.</li> </ul>

### **E.RECOMMENDED STUDY MATERIAL**

<b>Sr.No.</b>	<b>Book</b>	<b>Author</b>	<b>Edition</b>	<b>Publication</b>
1.	Building construction	B.C.Punmia	10 <sup>th</sup>	Laxmi publication
2.	Building construction	S.C.Rangwala	29 <sup>th</sup>	Charatar publication



3.	A Text Book of Building Construction	S.P.A rora, S.P.B indra	5 <sup>th</sup>	Dhanpat Rai publication
4.	Building construction illustrated	FRANCIS D. K. CHING	3 <sup>rd</sup>	
5.	Building Constructions (1to 4 vol.)	Mckay, W.B.		

### **F. EVALUATON**

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

**A. OBJECTIVE**

- To acquire lighting design skills that provide a quality luminous environment using electric lighting, and its integration with day lighting, as a material that provides form and sensory qualities to spaces.
- To familiarize with drawing and sketching techniques and develops the appropriate skills for visualization and representation to facilitate effective visual communication.

**B. COURSE OUTCOME**

After studying this course you should be able to:

- Understand the importance of lighting and color in interiors.
- Gain knowledge about different types of design systems and smart lighting systems in the trend.
- Demonstrate a significant expansion of vocabulary.
- Write reports and summarize lengthy passages.
- Gain sound knowledge of Communication Skills and will be able to develop and display confidence in public speaking and Group Discussions.
- Apply the learnings on the design project & learn to render design sheets.

**C. OUTLINE OF THE COURSE**

Unit No.	Title of the unit	Time required for the Unit (Hours)
1.	Introduction to Lighting & Color in Interiors	7
2.	Design Systems	7
3.	Lighting Systems in Interiors	7
4.	Color Schemes in Interiors	7
5.	Design Scheme	8

**D. DETAILED SYLLABUS**

Unit	Unit Details
1.	<p>1. Introduction to Lighting and Color in Interiors</p> <ul style="list-style-type: none"> <li>• Introduction of Unit</li> <li>• Overview of layers of lighting, lighting fixtures and fittings</li> </ul>
2.	<p>Design Systems:</p> <ul style="list-style-type: none"> <li>• Analysis of various Lighting design and layouts in various commercial spaces, such as Museum, gallery, Retail showroom, Offices, etc. Understanding the implications of electric lighting on place making, spatial ordering, health, and human activities in indoor spaces.</li> </ul>



	<ul style="list-style-type: none"> <li>• Exploration of current tools, trends, materials, technology and energy efficient designs in lighting systems.</li> </ul>
<b>3.</b>	<b>Lighting Systems in Interiors</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Exploration of current tools, trends, materials, technology and energy efficient designs in lighting systems.</li> <li>• Conclusion and summary of unit.</li> </ul>
<b>4.</b>	<b>Lighting &amp; Color Schemes in Interiors</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• General aims, lighting needs, calculation of lighting levels, intensity levels, energy and installation costs and other factors, selection of fixtures, location and placing of fixtures. Principle of schematic lighting design and energy codes.</li> <li>• Understand different color schemes and produce design sketches with the help of color rendering: Acrylic colors or water colors implementing different color schemes..</li> <li>• Conclusion and summary of unit.</li> </ul>
<b>5.</b>	<b>Design Scheme</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit</li> <li>• Project oriented for lighting design based on research investigation and conceptual approach with detailing and prototype</li> <li>• Show the light and color effect on design project.</li> <li>• Do Color rendering of the ongoing design project.</li> <li>• Conclusion and summary of unit.</li> </ul>

## **E. RECOMMENDED STUDY MATERIAL**

<b>Sr. No</b>	<b>Reference Book</b>	<b>Author</b>	<b>Edition</b>	<b>Publication</b>
1.	Lighting: In Architecture and Interior Design	Wanda jankowski	1995	psc intl
2.	Concepts and practice of Architectural Day lighting	Moore Fuller,	Latest	Van Nostrand Reinhold co.
3.	National Lighting Code		2011	Govt of India
4.	Concepts in Architectural lighting	David Egan. M.	Latest	Mcgraw Hill Book co.
5.	Interior Design Illustrated	Francis.D. Ching & Corky Bingelli	Latest	Wiley publishers.

## **F. EVALUATION**

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



**A. OBJECTIVE**

Students will be able:

- To understand the scope of environmental studies and explain the concept of ecology, ecosystem and biodiversity.
- To implement innovative ideas of controlling different categories of Environmental Pollution.
- To explain different environmental issues together with various Environmental Acts, regulations and International Agreements.
- To summarize social issues related to population, resettlement and rehabilitation of project affected persons and demonstrate disaster management with special reference to floods, earthquakes, cyclones, landslides.
- To determine the local environmental assets with simple ecosystems and identify local flora and fauna

**B. COURSE OUTCOME**

After studying this course you should be able to:

- To develop the understanding of climate & factors affecting the climate, their typology and micro and macro climate with elements of climate
- To understand the effect of climate on human, comparative analysis of human and building, heat balance and thermal comfort through means like thermal indices, solar chart and Psychometric chart.
- To gain knowledge of thermal activities like heat flow, heat transfer, heat storage and time lag of various building materials and elements
- To apply learned knowledge of lighting analysis, day lighting and its factors and how it effects the indoor environment of a building
- To carry out site analysis with respect to climatology and its application in site planning and design evolution in Practical work

**C. OUTLINE OF THE COURSE**

Unit No.	Title of the unit	Time required for the Unit (Hours)
1.	<b>Introduction to Interior Environment</b>	4
2.	<b>Vernacular Building Traditions</b>	8
3.	<b>Energy saving device &amp; systems</b>	8
4.	<b>Interior Landscaping</b>	8
5.	<b>Design Exercise</b>	8

**D. DETAILED SYLLABUS**

Unit	Unit Details
1.	<b>Introduction</b>



	<ul style="list-style-type: none"> <li>• Introduction to Interior Environment.</li> <li>• Role of Environment in Interior Design.</li> <li>• Evolution of Environmental studies in design,</li> <li>• Environmental Design issues.</li> <li>• Concept of sustainability and sustainable development.</li> <li>• Ecosystem: Structure and function of ecosystem</li> <li>• Energy flow in an ecosystem: food chains, food webs and ecological succession.</li> <li>• Biodiversity and its conservation: genetic, species and ecosystem diversity, Bio geographical classifications, hot-spots of biodiversity, threats to biodiversity, Conservation of biodiversity</li> <li>• Case studies of the innovative ways and means of acquiring environmental control in interiors.</li> </ul>
<b>2.</b>	<b>Environmental Impact of Vernacular Building Traditions</b>
	<ul style="list-style-type: none"> <li>• Vernacular building tradition - Meaning &amp; theories.</li> <li>• Determinants of vernacular building tradition: Role of social, cultural, political, economic symbolic, climatic, technological contest in creation of form.</li> <li>• Impact of Vernacular Building traditions on environment.</li> <li>• Illustrated case studies of vernacular settlements/building typology</li> <li>• Historical case Studies, Mud/ Bamboo Architecture.</li> <li>• Principles of Organic Architecture, earth sheltered buildings, water bodies, Energy Efficient Building Design, green architecture,</li> <li>• Bionic Architecture along with case studies of various contemporary designs done with principles of sustainability</li> <li>• Group Assignment: Case study of Passive &amp; Active Design.</li> </ul>
<b>3.</b>	<b>Energy saving device &amp; systems</b>
	<ul style="list-style-type: none"> <li>• Energy saving lighting systems, smart windows, active solar &amp; building integrated photovoltaic system, energy efficient HVAC</li> <li>• (Heating, Ventilation and Air-Conditioning) systems, energy storage systems</li> </ul>
<b>4.</b>	<b>Passive &amp; Active Environmental Design</b>
	<ul style="list-style-type: none"> <li>• Impacts on ecology due to build environment, Control by design,</li> <li>• historical case Studies, Mud/ Bamboo Architecture,</li> <li>• Principles of Organic Architecture, landscaping; earth sheltered buildings, water bodies, Energy Efficient Building Design, green architecture,</li> <li>• Bionic Architecture along with case studies of various contemporary designs done with principles of sustainability</li> <li>• Group Assignment: Case study of Passive &amp; Active Design.</li> <li>• Interior Landscaping and its impact on interior environment.</li> <li>• Enhance a space using Interior Landscaping.</li> <li>• Elements of Interior Landscape</li> </ul>
<b>5.</b>	<b>Design Exercise</b>
	<ul style="list-style-type: none"> <li>• Design a mural/product for your current design project using ecofriendly (reuse and recycle) materials learnt during the course and create your own innovative solutions for the same.</li> </ul>



## **E. RECOMMENDED STUDY MATERIAL**

Sr. No	Reference Book	Author	Edition	Publication
1.	Environmental Studies	ErachBarucha	Latest	UGC
2.	Environmental Studies	Benny Joseph	Latest	Tata McgrawHill
3.	Environmental Studies	R. Rajagopalan	Latest	Oxford University Press
4.	Principles of Environmental Science and Engineering	P. Venugoplan Rao	Latest	Prentice Hall of India.
5.	Environmental Science and Engineering	P. Meenakshi	Latest	Prentice Hall India.
Important Web Links				
1.	<a href="http://www.energy.gov">http://www.energy.gov</a>			
2.	<a href="https://nptel.ac.in/courses/122102006/">https://nptel.ac.in/courses/122102006/</a>			

## **F. EVALUATION**

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

**A. OBJECTIVE**

This course will give participants the opportunity to engage in a similar quest and will discuss photography as a medium to interpret aesthetic intent, express.

**B. COURSE OUTCOME**

After studying this course you should be able to:

- Implement the contributions of photography to enhancing the aesthetics of architecture and to develop proficiency in this art using modern photographic techniques.
- Correlate the equipment, processes, and procedures necessary for the photography of building exteriors and interiors, dusk/night and night architectural landscapes, and construction progress
- Implement concepts of architectural lighting, heightened sensitivity to light, ability to use High Dynamic Range (HDR), multiple exposures to create dramatic architecture/interior images without additional professional lighting, to control of Parallax
- Learn and Implement the Advance photography for Interior Design.
- Collaborate all knowledge of photography

**C. OUTLINE OF THE COURSE**

Unit No.	Title of the unit	Time Required for the Unit (Hours)
1	Introduction	9
2	Introduction to Lightroom	9
3	Advanced Lightroom	6
4	Advance Photography	6
5	Final Project	6

**D. DETAILED SYLLABUS**

Unit	Contents
1.	<b>Introduction</b>
	<ul style="list-style-type: none"> <li>• Introduction to the Photography</li> <li>• Lightning Concept -Role of lights in Interior Design photography,</li> <li>• Basic Digital Camera Functions Settings, file types and sizes – Resolution</li> <li>• Creative Shooting/Interior Lighting /Processing Raw Files</li> </ul>
2.	<b>Introduction to Lightroom</b>
	<ul style="list-style-type: none"> <li>• Light room Introduction: Computer preferences and basic set up. Calibration, Free transform</li> <li>• Visual Acoustics</li> <li>• Digital Printing, Light room Continued/Free Transform Continued</li> </ul>



	<ul style="list-style-type: none"> <li>• Creative photography/ photo renderings, for special effects using software.</li> <li>• Play of light and shadows to achieve dramatic pictures.</li> </ul>
<b>3.</b>	<b>Advanced Lightroom</b>
	<ul style="list-style-type: none"> <li>• Advanced Lightroom/Develop</li> <li>• Advanced Develop Module, Present HDR – Digital Tool for Architecture and Interior Design</li> <li>• Shutter speeds- slow, normal and high and their various applications.</li> <li>• Apertures- use of various apertures to suit different lighting conditions and to enhance depth of fields.</li> <li>• Selection of ISO rating to match various lighting conditions.</li> </ul>
<b>4.</b>	<b>Advance Photography</b>
	<ul style="list-style-type: none"> <li>• Photo Exhibition</li> <li>• Lightroom Mobile</li> <li>• Optimizing selection of shutter speed, aperture and ISO.</li> <li>• Twilight and night photography.</li> <li>• Architectural photography as a profession, law on photography</li> </ul>
<b>5.</b>	<b>Final Project</b>
	<ul style="list-style-type: none"> <li>• Students have to prepare a final Project related to their Individual research / thesis work or as instructed by the guide and prepare a digital interior photography portfolio.</li> </ul>

## **E. RECOMMENDED STUDY MATERIAL**

<b>Sr. No.</b>	<b>Book</b>	<b>Author</b>	<b>Edition</b>	<b>Publication</b>
1.	Architectural Photography: Composition, Capture, and Digital Image Processing	Schulz, Adrian	2012	Rocky Nook
2.	Photographing Buildings Inside and Out	McGrath, Norman	1993	Watson-Guptill Publications

## **F. EVALUATION**

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



<b>BULCHU4201</b>	<b>LEADERSHIP AND MANAGEMENT SKILLS</b>	<b>1 Credits [LTP: 0-0-2]</b>
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### **COURSE OUTCOMES:**

On successful completion of the course the learners will be able to

<b>CO</b>	<b>Cognitive Abilities</b>	<b>Course Outcomes</b>
<b>CO-01</b>	<b>Understanding/ Applying</b>	Integrate their understanding into their leadership skills development process.
<b>CO-02</b>	<b>Understanding/ Applying</b>	Demonstrate knowledge of the working environment impacting business organizations and exhibit an understanding of ethical implications of decisions.
<b>CO-03</b>	<b>Understanding/ Applying</b>	Assess leadership styles and sharpen the managerial skills to communicate effectively and facilitate decision making in relation with self-management, stress management and conflict management.
<b>CO-04</b>	<b>Understanding / Applying</b>	Generate a creative thinking, something beyond the obvious answers and solution to a specific problem.
<b>CO-05</b>	<b>Creating/Applying</b>	Understand the significance of trust and team skills, creating new innovative ideas with the help of brainstorming and learn work etiquettes.

<b>UNIT NO.</b>	<b>UNIT NAME</b>	<b>Hours</b>
<b>1</b>	Leadership Skills	4
<b>2</b>	Entrepreneurial Skills	4
<b>3</b>	Managerial Skills: Self –Management, Stress Management & Conflict Management	6
<b>4</b>	Creative Thinking & Design Thinking	6
<b>5</b>	Team Building & Confidence Building	5

<b>LIST OF LABS</b>	
1.	Leadership Skills: Stages of development
2.	Leadership Skills I: Attributes of great leaders, decision making, activities to enhance such qualities
3.	Leadership Through Biographies
4.	Entrepreneurial Skills: Traits & Competencies of an Entrepreneur
5.	Managerial Skills: Conflict Management
6.	Self-Management: Challenges & Solutions
7.	Stress Management : Causes of stress and regulation



8.	Creating Business Plans: Problem Identification and Idea Generation
9.	Design Thinking: Transforming Challenges into Opportunities
10.	Creative Thinking & Analytical Thinking: Presentation
11.	Team building: Developing teams and team work
12.	Confidence Building : Improving engagement, communicating effectively & activities to facilitate decision making



# SYLLABUS V Semester



*Your Dreams Our Goal*  
**POORNIMA**  
UNIVERSITY

Member of Association of Indian Universities & Approved by UGC (Govt. of India) under 2(f) & 12(B)





**A. OBJECTIVE**

The objective of the course is:

- To enable the student to write specifications for various items of civil works & Interior work with a view of controlling quality of work executed at site.
- To provide the student sufficient knowledge of estimation in order that he can advise prospective clients on project viability and also monitor/ control project cost.

**B. COURSE OUTCOME**

After studying this course you should be able to:

- CO1. Determining the fundamentals of cost and estimation in interior design project.
- CO2. Compose the bill and cost estimation for architectural drawings.
- CO3. Evaluating and estimating projects and deriving the expenditure.
- CO4. Create approximate estimate, detailed estimate for small scale building projects and low cost housing.
- CO5. Assessing art of building construction through specification writing.

**C. OUTLINE OF THE COURSE**

Unit No.	Title of the unit	Time Required for the Unit (Hours)
1	Introduction	4
2	Rate analysis	4
3	Introduction to Specification	4
4	Estimate Formats	6
5	Estimation and costing	6

**D. DETAILED SYLLABUS**

Unit	Contents
1.	<b>Introduction</b>
	Estimation – definition, purpose, types of estimate, and procedure for Estimating the cost of work in order to implement an interior design project or to make products related to interior design like furniture, artifacts etc.
2.	<b>Rate analysis</b>
	Rate Analysis – definition, method of preparation, Bill of quantity , Tender , Bid for Interior design projects, contract , steps to prepare interior



	design contract, Purchase order , work order.
<b>3.</b>	<b>Introduction to Specification</b>
	Specification – Definition, purpose, procedure for writing specification for the purpose of calling tenders, types of specification. Specification for different item related to interior design project – woodwork for furniture window frames & pelmets, partitions etc., also of materials like steel aluminum glass of various kind. Wall paneling & false ceiling of materials like aluminum, steel, wood, electrical, plumbing, air conditioning & firefighting equipment's.
<b>4.</b>	<b>Estimate Formats</b>
	Detailed Estimate – data required factors to be considered, methodology of preparation, Abstract of Estimate, contingencies, labor charges, different methods of estimate for interior design works, methods of measurement of works.
<b>5.</b>	<b>Estimation and costing</b>
	Create Detail Estimation of Interior design project ongoing in Interior design studio of the same semester.

### **E. RECOMMENDED STUDY MATERIAL**

<b>Sr. No.</b>	<b>Book</b>	<b>Author</b>	<b>Edition</b>	<b>Publication</b>
<b>1.</b>	Estimation, Costing, Specification and Valuation in Civil Engineering	M. Chakraborti		
<b>2.</b>	Estimating and Costing	Dutta	1983	S. Dutta and Co., Lucknow

### **F. EVALUATON**

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

## **A. OBJECTIVE**

Subject provides knowledge of the different Building materials & Finishes used in interiors and Exteriors.

The objective of the course is:

- To understand complex building material in the context of various construction methods.
- To focus on various building materials based on the performance, standards and codes, wherein application of each material would be discussed in detail, both in the context of historical and contemporary methodology.
- To study materials and systems, application of building materials such as Steel, Iron & other Metals, Doors & Windows materials & their Fittings, Paint, Distemper & Varnishes, Recycled & Green Building Materials, etc., their properties and applications, and their intrinsic relationship to structural systems and environmental performance.
- To study and compare the material and construction techniques.
- To focus on latest trends in practice and usage of new technology/materials.

## **B. COURSE OUTCOME**

After studying this course you should be able to:

- CO1. Develop understanding of material eq. Steel, Iron and other metals properties and construction techniques of industrial buildings.
- CO2. Gain knowledge on different interior finishes, progressively and to enable them to represent the different building components through relevant drawings
- CO3. Perform the different test for quality assurance of Building Materials.
- CO4. Select the appropriate construction materials as per construction activities and specifications.
- CO5. Correlate Green building material with interior design materials.

## **C. OUTLINE OF THE COURSE**

Unit No.	Title of the unit	Time Required for the Unit (Hours)
1	Steel	4
2	Iron and other Metals	4



3	<b>Doors &amp; Windows materials &amp; their Fittings</b>	5
4	<b>Paints, Distemper &amp; Varnishes</b>	6
5	<b>Recycled and Green Building materials</b>	5

## **D. DETAILED SYLLABUS**

Unit	Contents
<b>1.</b>	<b>Steel</b>
	Composition, Properties, anticorrosive measures, mechanical and heat treatment of steel - Market forms of steel: Steel for Reinforcement - Hot rolled bars, CTD Bars, TMT bars , Welded wire fabrics; Steel for Pre stressed concrete; Structural steel; Stainless steel, steel alloys, current developments.
<b>2.</b>	<b>Iron and other Metals</b>
	Iron-Brief study on manufacture, composition, properties and uses of cast iron, wrought iron, pig iron. Other metals: Aluminum and its alloys, copper and its alloys.
<b>3.</b>	<b>Doors &amp; Windows materials &amp; their Fittings</b>
	<ul style="list-style-type: none"> <li>• Standard sections – Channel, box, extruded etc. – Connections – Specifications. Door and window hinges like butt hinges, pin hinges, parliament hinges, garnet hinges, counter flap hinges, strap hinges, piano hinges, auto-closing hinges</li> <li>• Door and window bolts like sliding door bolt, tower bolt, flush bolt</li> <li>• Door handles- door locks-other fastenings to door and windows like hook and eyes, window stays, door stoppers, door closers, caster wheels, floor springs, pivots, magnetic catchers for wooden cupboards etc.</li> <li>• Drawings – Steel windows and Doors, Aluminum doors, windows and hand rails, Door and window fittings.</li> </ul>
<b>4.</b>	<b>Paints, Distemper &amp; Varnishes</b>
	<ul style="list-style-type: none"> <li>• PAINTS, DISTEMPERS &amp; VARNISHES – types –composition – properties – application, Uses and BIS specifications.</li> </ul>
<b>5.</b>	<b>Recycled and Green Building materials</b>
	<ul style="list-style-type: none"> <li>• Introduction of renewable materials, need for recycle materials.</li> <li>• The logic behind recycling – recycling of steel, wood, glass etc.– estimation of the quality of recycled timber – criteria for recycling of steel, glass etc.</li> <li>• Green Building concept and materials</li> </ul>

## **E. RECOMMENDED STUDY MATERIAL**

Sr. No.	Book	Author	Edition	Publication
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**POOKNIMA**  
**UNIVERSITY**

Member of Association of Indian Universities & Approved by UGC (Govt. of India) under 2(f) & 12(B)



FACULTY OF  
**DESIGN**  
AND ARTS

1.	Green Building Materials	SPIEGE	3 <sup>rd</sup>	
2.	Building Materials	P.C. Uarghese	7 <sup>th</sup>	Ashoke K. Ghosh
3.	Building Materials	S.K. Duggal	3 <sup>rd</sup>	New Age International
4.	Engineering material	S.C. Rangwala	Latest	Charotar Publishing House

## **F. EVALUATON**

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

**A. OBJECTIVE**

This course is full of practical sessions to enrich students with hands on experience of how to analyze floor plans and apply different steps Vaastu method for resolving any concern.

The objective of the course is:

- To understand power of all Vaastu Zones and how to keep these balanced to create more happiness, love & money.
- To help students learn different steps of Vaastu methodology for step-by-step diagnosis of any problem and then applying Vaastu techniques for balancing.
- To understand application of popular Vaastu remedies as well as using household objects as remedies for achieving desired results.

**B. COURSE OUTCOME**

After studying this course you should be able to:

- CO1. Create understanding of scientific background, origin of Vaastu.
- CO2. Direct directions for different areas for residential and commercial projects.
- CO3. Program Vaastu tips for the projects, progressively and to enable them to represent the different building areas through relevant drawings.
- CO4. To develop different steps of Vaastu methodology for step-by-step diagnosis of any problem and then applying Vaastu techniques for balancing.
- CO5. Create application of popular Vaastu remedies as well as using household objects as remedies for achieving desired results.

**C. OUTLINE OF THE COURSE**

Unit No.	Title of the unit	Time Required for the Unit (Hours)
1	Introduction	4
2	Interior and Exterior	5
3	Orientation of Home	5
4	Commercial Vaastu	5
5	Remedial Vaastu and Pyramids	5

**D. DETAILED SYLLABUS**

Unit	Contents
1.	Introduction
	<ul style="list-style-type: none"> <li>• Overview of the history and scientific background of Vaastu</li> <li>• Understanding Life force Energy</li> <li>• Importance of Five Elements</li> <li>• Importance of Cardinal Directions</li> </ul>



	<ul style="list-style-type: none"> <li>Principles of Vastu shastra</li> <li>Selection of Land</li> <li>Veedhi Shoola.</li> </ul>
<b>2.</b>	<b>Space Planning</b>
	<ul style="list-style-type: none"> <li>Space planning as per Vastu Shastra</li> <li>Building Design - Floor level, Height factors, Verandas, Balconies, Porch, Basements, Sumps &amp; Borings, Boundary Walls, Parking, Security Guard Room, Overhead Tanks, Septic Tanks, Water flow, Mezzanine floors, Plants and Greenery</li> </ul>
<b>3.</b>	<b>Vastu for Residence</b>
	<ul style="list-style-type: none"> <li>Importance of Vastu in residence design</li> <li>Orientation and planning of Bed Room , Living Room, Kitchen, Dining Room, Bathroom, Drawing room, Study Room, Puja Room, Library, Store room, Doors, Main Entrance, Staircase, Servants room, Guest Room as per Vastu shastra</li> <li>Interior decoration as per Vastu shastra</li> </ul>
<b>4.</b>	<b>Commercial Vaastu</b>
	<ul style="list-style-type: none"> <li>External and Internal Planning for Offices, Shops, Restaurants, Showrooms, Schools, Hospitals and Other Commercial establishments according to Vastu shastra.</li> </ul>
<b>5.</b>	<b>Remedial Vaastu and Pyramids</b>
	<ul style="list-style-type: none"> <li>Identifying the Vaastu Defects</li> <li>Rectification of Vaastu Defects in Existing Building</li> <li>Color therapy</li> <li>Discussion on different building Plans</li> <li>Introduction to Power of Pyramids</li> <li>Application of Pyramids in Vaastu</li> <li>Remedies with Pyramids</li> </ul>

## **E. RECOMMENDED STUDY MATERIAL**

<b>Sr. No.</b>	<b>Book</b>	<b>Author</b>	<b>Edition</b>	<b>Publication</b>
1.	Golden Rules of Vaastu Shastra - Remedies And Solutions	Suman Pandit		

## **F. EVALUATON**

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

## **A. OBJECTIVE & SUBJECT OUTLINE**

Students must be able to present a project graphically in a medium and a format that enhance the solution to a design problem and communicate clearly to the audience. In this course, students will learn to use a variety of tools and the vocabulary to present their designs in the most effective way.

Site visits will be conducted to understand the nature of project. Group discussions among students is encouraged. This course introduces HOSPITALITY INTERIORS.

The objective of the course is:

- To introduce to students, the design of a building with complexities related to multi-functional spaces, services, structures and large scale site planning;
- To accommodate more than one building Interiors;
- To help students evolve the integrated understanding of the complex relationship between, function and space of multifunctional area;
- To initiate the concepts and implementation of campus planning, services in MEP, HVAC and structures, space planning, landscaping, movement and segregation for Large Scale Buildings
- For the entire semester, you will take up a single design project – HOSPITALITY INTERIORS WHICH MAY INCLUDE- CAFÉ, RESTAURANT, BAR, GYM, SPA, HOTEL LOBBY AND RECEPTION AREAS ETC.

## **B. COURSE OUTCOME**

After studying this course you should be able to:

- CO1. To understand the design as a 2-dimensional plan as well as a 3-dimensional form and its relevance with the surrounding context
- CO2. To learn the process of researching and analyzing the design process involved in the existing design forms in various parts of the country and even abroad, the methods adopted by famous designers and experts and its results, and drawing inferences from the studies conducted in order to open the mind for newer innovations and alternatives
- CO3. To practice freedom to think \_out of the box ‘but design sustainably and also, to improve architectural vocabulary for presenting the design on any possible competitive platforms
- CO4. To apply the various theories and techniques learnt in previous design projects and also develop the final design from the conceptual theme.
- CO5. Observe, research, document, and apply ergonomic and anthropometric aspects of interior design with respect to design problem.





## C. OUTLINE OF THE COURSE

Unit No.	Title of the unit	Time Required for the Unit (Hours)
1	Introduction to design Project	6
2	Case Studies	9
3	Design Concept	6
4	Technical drawings	6
5	Layout Plans	9

## D. DETAILED SYLLABUS

Unit	Unit Details
1.	<b>Introduction to design Project</b>
	<ul style="list-style-type: none"><li>To introduce to students, the design of a building with complexities related to hospitality, services, structures and site planning.</li><li>Conclusion and summary of unit.</li></ul>
2.	<b>Case Studies</b>
	<ul style="list-style-type: none"><li>Introduction of unit.</li><li>Understanding the role &amp; process of a case study.</li><li>Choose &amp; select relevant case examples related to your project.</li><li>Understanding the principles and standards of different areas of a hospitality space and also the anthropometry and ergonomics inside a given space.</li><li>Study and analyze an existing hotel w.r.t. the design project.</li></ul>
3.	<b>Design Concept</b>
	<ul style="list-style-type: none"><li>Developing concepts for the design project.</li><li>To help students evolve their design by understanding relationship between forms, function and space.</li><li>Explain your design idea with the help of sketches.</li></ul>
4.	<b>Technical drawings</b>
	<ul style="list-style-type: none"><li>Plan, Sectional Elevation, furniture layout.</li><li>Detailed interior drawings.</li><li>Make appropriate furniture details.</li></ul>
5.	<b>Layout Plans</b>
	<ul style="list-style-type: none"><li>Electrical layout.</li><li>Lighting layout.</li></ul>



	<ul style="list-style-type: none"> <li>• Plumbing layout</li> <li>• Flooring pattern</li> <li>• Ceiling plan</li> <li>• Wall finishes</li> </ul>
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### **MODEL EXERCISE/ ASSIGNMENTS/ PROJECTS:**

Project: HOSPITALITY INTERIORS/ HOTELS /

Students will strictly work on the interior part, of the given plan. They can get those plans from SPA Department too.

### **E. RECOMMENDED STUDY MATERIAL**

Sr. No.	Book	Author	Edition	Publication
1.	Campus design in India Kanvinde & Miller	Campus design in India Kanvinde & Miller		
2.	Time Saver Standards for Interior Design and Space Planning	Martin Zelnik and Julius Panero	Latest	



## **A. OBJECTIVE**

The objective of the course is:

- To introduce the concepts and fundamentals of Working Drawing.
- To familiarize the students with the language of architecture & buildings as two dimensional and three dimensional representations

## **B. COURSE OUTCOME**

- To prepare basic working drawings for a given building Design
- To prepare site layout with necessary details based on basic drawings
- To prepare detailed working drawing based on basic drawings
- To incorporate the knowledge of construction, finishes and services for designing details and preparing working drawings
- To document the entire set of working drawings with the aim of presenting the same for securing placement for practical training.

## **C. OUTLINE OF THE COURSE**

Unit No.	Title of the unit	Time required for the Unit (Hours)
1.	Working plans	8
2.	Interior working details	8
3.	Working elevation(s) and sectional details	12
4.	Submission drawings & details	8
5.	Other drawings & details in interiors	12

## **D. DETAILED SYLLABUS**

Unit	Unit Details
1.	<b>Working plans</b>
	<ul style="list-style-type: none"> <li>• Introduction to Project-1- previous semester apartment design.</li> <li>• Preparation of working drawings of a residence.</li> <li>• Drafting of working plans – floor, terrace &amp; location; sections and elevations of 3BHK</li> </ul>
2.	<b>Interior working details</b>



	<ul style="list-style-type: none"> <li>• Introduction to interior working details</li> <li>• Preparation of furniture details, plan, elevation &amp; sections.</li> <li>• Preparation of door and window schedule.</li> <li>• Preparation of kitchen and toilet details.</li> </ul>
<b>3.</b>	<b>Working elevation(s) and sectional details</b>
	<ul style="list-style-type: none"> <li>• Demonstration of working elevations and sections.</li> <li>• Drafting/conversion of sections &amp; elevations to working drawings</li> <li>• Drafting of detailed drawing – Plans, Elevations and Sections &amp; detailing of Staircase.</li> </ul>
<b>4.</b>	<b>Submission drawings &amp; details</b>
	<ul style="list-style-type: none"> <li>• Lecture on formatting of submission drawings Location Plans, Floor Plans, Elevations, Sections</li> <li>• Lecture on detailed drawings</li> <li>• Elevations, site plan, area calculations, &amp; opening schedules</li> <li>• Compiling/formatting of submission drawing</li> </ul>
<b>5.</b>	<b>Other drawings &amp; details in interiors</b>
	<ul style="list-style-type: none"> <li>• Drafting of detailed drawing – Plans, Elevations, Sections and Details of Boundary wall</li> <li>• Drafting of detailed drawing – Plans, Elevations, Sections and Details of Washroom(s)</li> <li>• Drafting of detailed drawing – Plans, Elevations, Sections and Details of Kitchen</li> </ul>
	PROJECT 2 –Design Project of Current Semester
	<ul style="list-style-type: none"> <li>• Preparation of current semester Design drawings according to exercise done under Project 1</li> <li>• Column and grid placement in the final plans</li> <li>• Drafting/conversion of floor plans to working plans</li> </ul>
	<ul style="list-style-type: none"> <li>• Drafting/conversion of sections &amp; elevations to working drawings</li> </ul>
	<ul style="list-style-type: none"> <li>• Compiling/formatting of submission drawing including location plan, floor plans, sections, elevations, site plan, area calculations, &amp; opening schedules</li> </ul>

## **E. RECOMMENDED STUDY MATERIAL**

<b>S.N.</b>	<b>Book</b>	<b>Author</b>	<b>Edition</b>	<b>Publication</b>
1.	Working Drawing Handbook	Keith Syles	1998	Architectural Press Oxford
2.	Arch. Drawing and Light Construction	Edward J. Muller, James G. Gaussett	1999	Grav – Prentice Hall, New Jersey



3.	Unified Building Regulation, Rajasthan		2017	Jaipur Development Authority
4.	Working Drawing Manual (P/L Custom Scoring Survey)	Fred A. Stitt	1998	McGraw-Hill Education
5.	The Professional Practice of Architectural Working Drawings	Osamu A. Wakita, Richard M. Linde & Nagy R. Bakhoum	4 <sup>th</sup> edition (2011)	John Wiley & Sons
6.	Architectural Working Drawings	Ralph W. Liebing	3 <sup>rd</sup> edition (1990)	John Wiley & Sons

## **F. EVALUATION**

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



**BIDCID5203****BUILDING SERVICES – III****2 Credits [LTP: 0-1-2]****A. OBJECTIVE**

The course provides an understanding of the Building services for Spaces in Building. The students learn about the basic concepts of the various elements that help in the functioning of the proper services of a complex interior environment such as a residential/commercial/Commercial & Retail/institutional space.

The objective of the course is:

- To understand the importance of human comforts in interior space and built environments
- To understand Built forms in context of environmental climatology and artificial environments for interiors
- To understand the importance of Services and linkages in the context of Interior Design
- To develop an appreciation of Electrical, Plumbing and HVAC as the spine of interior architecture and design solutions

**B. COURSE OUTCOME**

After studying this course you should be able to:

- CO1. To understand the importance of acoustics in architecture.
- CO2. To learn and adopt various terminologies like RT, echo, noise rating, etc. and their values for different materials along with their application
- CO3. To understand the concept of noise and how it affects any interior/exterior space along with understanding the means and methods of reducing it to the maximum possible extent
- CO4. To gain knowledge of various acoustical materials and their properties
- CO5. To apply the knowledge gained in practical examples for achieving maximum efficiency of acoustics.

**C. OUTLINE OF THE COURSE**

Unit No.	Title of the unit	Time Required for the Unit (Hours)
1	Introduction to Acoustics	6
2	Terminologies in Acoustics	9
3	Noise	6
4	Acoustical Materials	6
5	Acoustical design process	9



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## **D. DETAILED SYLLABUS**

<b>Unit</b>	<b>Contents</b>
<b>1.</b>	<b>Introduction to Acoustics</b>
	<ul style="list-style-type: none"> <li>• Introduction to acoustics</li> <li>• Physics of sound, behavior of sound in an enclosed space.</li> <li>• Criteria for acoustic environment- location of building, geometry and shape,</li> <li>• Identification of Acoustics terminology, components and typology of acoustical treatments.</li> </ul>
<b>2.</b>	<b>Terminologies in Acoustics</b>
	<ul style="list-style-type: none"> <li>• Basic definitions</li> <li>• Basic understanding of echo, reverberation time,</li> <li>• sound absorption coefficient,</li> <li>• Noise rating curves.</li> <li>• Detailed study of the calculations of reverberation time, frequency, etc.</li> </ul>
<b>3.</b>	<b>Noise</b>
	<ul style="list-style-type: none"> <li>• Noise</li> <li>• Noise- physiological and psychological effects, transmission loss, flanking of sound,</li> <li>• Structure borne sound and noise from different mechanical equipments,</li> <li>• Noise control techniques and their applications,</li> <li>• Detailed study of types of noise and noise effect on human and its surroundings.</li> </ul>
<b>4.</b>	<b>Acoustical Materials</b>
	<ul style="list-style-type: none"> <li>• Acoustical Materials</li> <li>• Selection of acoustic materials, construction details and fixing.</li> <li>• Advanced study of acoustical treatments, material specifications and study with case studies and market surveys.</li> </ul>
<b>5.</b>	<b>Acoustical design process</b>
	<ul style="list-style-type: none"> <li>• Acoustical design process</li> <li>• Predictions of acoustical conditions,</li> <li>• Approach to designing enclosure for predetermined acoustical responses, corrective of existing deficient enclosures,</li> <li>• Introduction to sound reinforcing system- amplification and distribution.</li> </ul>

## **E. RECOMMENDED STUDY MATERIAL**

<b>Sr. No.</b>	<b>Book</b>	<b>Author</b>	<b>Edition</b>	<b>Publication</b>
1.	National Building Codes <i>Your Dreams Our Goal</i>		2005	Bureau of Indian Standards



## **F. EVALUATION**

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

<b>BIDCID5204</b>	<b>COMPUTER APPLICATIONS – V</b>	<b>2 Credits [LTP: 1-0-2]</b>
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## **A. OBJECTIVE**

Exposure to 3DS MAX will help students to produce their operation and critical parameters. Presentations for large gatherings, corporate clients-using 3DS MAX 3D images, text etc.

The objective of the course is:

- To develop advanced 3D design exploration, drafting and visualization skills using 3DS Max and develop advanced modeling and presentation skills for interior design
- To initiate, scope, execute, and validate self-directed/ client projects using 3DS MAX.
- To introduce the fundamental concepts of computer systems; hardware and software and to develop basic skills in programming, Application of Information Technology tools and technical in Architecture.

## **B. COURSE OUTCOME**

After studying this course you should be able to:

- Demonstrate an understanding of the symbiosis of conceptual and technical skills required by a designer, to cope with industry changes, and the impact of new technologies
- Build the role of advance 3D software in the ongoing evolution of the practice of interior design & architecture
- Develop and synthesize an effective, aesthetically pleasing, appropriate, innovative, persuasive 3DS MAX solutions for interiors
- Develop an understanding of advance 3D software as a tool that aids the designer in visualizing, detailing, costing and presenting interior design projects.
- Programming the process of visualizing in depth and detail in advance 3D software's.

## **C. OUTLINE OF THE COURSE**

<b>Unit No.</b>	<b>Title of the unit</b>	<b>Time Required for the Unit (Hours)</b>
<b>1</b>	<b>Introduction</b>	<b>6</b>
<b>2</b>	<b>Tools</b>	<b>6</b>
<b>3</b>	<b>Parameters Modifier</b>	<b>9</b>
<b>4</b>	<b>Computerized Designing</b>	<b>6</b>





5	<b>Final Drawings</b>	9
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## **D. DETAILED SYLLABUS**

Unit	Contents
<b>1.</b>	<b>Introduction</b>
	<ul style="list-style-type: none"> <li>• Uses in various sectors, features in the software interface, four ports and configuration, animation options – time line &amp; time slider – Unit setup</li> </ul>
<b>2.</b>	<b>Tools</b>
	<ul style="list-style-type: none"> <li>• Application of tools in main tool bar ,link, unlink, selection tools,</li> <li>• Software interface &amp; operating tools, mirror &amp; snaps</li> <li>• Navigation panel - tab panel, media panel ,grid and snap set up, extended primitives, group menu, P Q R axis, coordinates, family parameters</li> <li>• Modeling hedra, torous nut, chamfer box, chamfer cylinder retc.</li> <li>• Modeling of interior object like sofa, tables, beds, cupboards</li> </ul>
<b>3.</b>	<b>Parameters Modifier</b>
	<ul style="list-style-type: none"> <li>• Bend, taper, twist, shell, slice, wave, noise, etc.</li> <li>• Appling parametric modifiers with shell modifiers, limit effects gizmo center, geometrical 3D object with parameters, door, windows, wall, railing, stairs, foliage and site improvement</li> <li>• Concepts of 2D shapes, line spline difference between editable, spline and default shapes brief visualization on arc, rectangle, polygon, circle, ellipse, helix, text, stares, extrude lathe, loft, boolean</li> <li>• Parameters of line – vertex, segments, spline etc.</li> </ul>
<b>4.</b>	<b>Computerized Designing</b>
	<ul style="list-style-type: none"> <li>• Using editable spline, attach &amp; cross section, editing lines by expiring vertex, segments, splines</li> <li>• Modelling concepts of bevel profile Vertex parameters (fillet, chamfer, fuse, weld, connect, insert, etc.) Segment parameters (insert, break, divide, hide, unhide, etc.) Spline parameters (trim, extend, outline etc.)</li> <li>• Creating subtraction &amp; 3D objects from 2D lines &amp; shapes, apply mirror any align attach command on 2D lines changing and converting to 3D editable spline</li> <li>• Copy of segment and line, relation line drawing, importing 2D plans and 3D blocks, exporting files to other extension, how to draw plan</li> <li>• Introduction to material textures and maps concepts of texturing and adding material, introduction to material editor, mapping material slots adding</li> <li>• subtracting maps, color concepts texturing with bitmap files etc.</li> </ul>



<b>5.</b>	<b>Final Drawings</b>
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Sr. No.	Book	Author	Edition	Publication
1.	Autodesk Official Training Course ware			
2.	REVIT Help			
3.	3D Studio Max			

	<ul style="list-style-type: none"> <li>• Editable patch and editable nurms patch parameters and modeling tools nurms modifiers and parameter modify tools, mesh smooth and Interaction, editable poly and low polygon modify, convert 3D objects to editable poly, working with vertex edge polygon and elements adding and, subscripting with modifiers quick slice cut bevel inset outline extended scaling rotation movement of scale parameters and modeling, apply material on surfaces, U V W mapping tiling, diffuse mapping and creating new tercourse, bitmap material creating mirror and glossiness, multi material editing maps</li> <li>• Introduction to lights, universal concepts&amp; 3ds max representation, sun study &amp; positioning lights, main&amp; Subordinate lights, types of lights – Omni, Spot, Directional etc.</li> </ul>
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### **E. RECOMMENDED STUDY MATERIAL**

### **F. EVALUATON**

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

**BIDCID5211**

**PROJECT MANAGEMENT**

**2 Credits [LTP: 0-1-2]**

### **A. OBJECTIVE**

To develop an understanding of management of construction and various aspects of it.

### **B. COURSE OUTCOME**

After studying this course you should be able to:

- To manage the scope, cost, timing, and quality of the project, at all times focused on project success as defined by project stakeholders and align the project to the organization's strategic plans and business justification throughout its lifecycle
- To identify project goals, constraints, deliverables, performance criteria, control needs, and resource requirements in consultation with stakeholders and implement project management knowledge, processes, lifecycle and the embodied concepts, tools and techniques in order to achieve project success
- To adapt projects in response to issues that arise internally and externally and interact with team and stakeholders in a professional manner, respecting differences, to ensure a collaborative project environment
- To adapt to project management practices to meet the needs of stakeholders from multiple sectors of the economy and utilize technology tools for communication, collaboration, information management, and decision support
- To implement general business concepts, practices, and tools to facilitate project success and apply project management practices to the launch of new programs, initiatives, products, services, and events relative to the needs of stakeholders



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## C. OUTLINE OF THE COURSE

Unit No.	Title of the unit	Time Required for the Unit (Hours)
1	Introduction to Construction Management	8
2	Scheduling Procedures And Techniques	8
3	Project Network Analysis	8
4	Project Network Analysis	4
5	Project Cost Analysis	8

## D. DETAILED SYLLABUS

Unit	Contents
<b>1.</b>	<b>Introduction to Construction Management</b>
	<ul style="list-style-type: none"> <li>• Construction management: Relevance in industry functions and scope.</li> <li>• Project management functions, planning process. Responsibilities of a construction manager – Project management- Concept, Objectives, Planning, Scheduling, Controlling</li> <li>• Suitability of architect as construction / project manager</li> </ul>
<b>2.</b>	<b>Scheduling Procedures And Techniques</b>
	<ul style="list-style-type: none"> <li>• Basic Concepts in the Development of Construction Plans</li> <li>• Choice of Technology and Construction Method</li> <li>• Defining project activities and precedence relationships among activities</li> <li>• Methods of Activity Duration Estimation</li> <li>• Project work breakdown, Modelling and analyzing networks</li> </ul>
<b>3.</b>	<b>Project Network Analysis</b>
	<ul style="list-style-type: none"> <li>• Work scheduling process. Bar charts and Mile stone charts.</li> <li>• Relevance Of Construction Schedules- PERT &amp; CRT</li> <li>• The Critical Path Method (CPM) - scheduling, activity float, critical path identification and schedules.</li> <li>• Preparing scheduling process, activity float, critical path identification and schedules</li> </ul>
<b>4.</b>	<b>Project Network Analysis</b>
	<ul style="list-style-type: none"> <li>• Network analysis fundamentals, CPM Network analysis procedure.</li> <li>• Program evaluation review Techniques (event, activity, dummy network rules, graphical guidelines for network – PERT network).</li> <li>• Network analysis and event, activity, dummy network rules,</li> </ul>



	graphical network – PERT network
<b>5.</b>	<b>Project Cost Analysis</b>
	<ul style="list-style-type: none"> <li>• PERT - network, time estimates, probability distribution, critical path, slack and probability of achieving completion date.</li> <li>• Estimating time and probability distribution, critical path, slack and probability of achieving completion date in PERT.</li> </ul>

## **E. RECOMMENDED STUDY MATERIAL**

Sr. No.	Book	Author	Edition	Publication
1.	Construction Project Management.	Chitkara, K.K	1998	Tata McGraw Hills Publishing Co. Ltd. New Delhi
2.	Scheduling Construction projects	Willis., E.M	1986	Willis., E.M
3.	Project Management with CPM ", PERT and Precedence Diagramming	Moder.J., C.Phillips and Davis	1983	Van Nostrand Reinhold Co.

## **F. EVALUATON**

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

<b>BIDCID5212</b>	<b>USE OF SOCIAL MEDIA MARKETING</b>	<b>2Credits [LTP: 0-1-2]</b>
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## **A. OBJECTIVE**

This course provides an introduction to social media marketing (SMM). This course will help in selecting the optimal social media platforms for reaching an organization's marketing goals. It will also teach the rules of engagement and social media ethics for behaving properly as marketers on the social web. It will also be guiding to create a comprehensive social media marketing plan, with detailed explanations and illustrations from a real world plan.

## **B. COURSE OUTCOME**

- After studying this course you should be able to:
- To define social media marketing goal setting necessary to achieve successful online campaigns To describe the history of social media marketing, its rapidly evolving role in public relations, advertising, and marketing, as well as the merging of social media marketing with all facets of business
- To define target markets for specific social media platforms
- To use social media platforms (e.g., blogs, microblogs, social networks, bookmarking, social news, Q&A sites, photo & video sharing, and podcasting) to influence clients and promote services, projects and practice



- To track progress in achieving social media goals with a variety of powerful measurement tools, services, and metrics and put it all together in a social media marketing plan

### **C. OUTLINE OF THE COURSE**

Unit No.	Title of the unit	Time Required for the Unit (Hours)
1	<b>Introduction to Social Media Marketing (SMM)</b>	6
2	<b>Social Media Sites and Platforms</b>	6
3	<b>Media Sharing</b>	9
4	<b>Content Publishing and Media Sharing</b>	6
5	<b>SMM Plan</b>	6

### **D. DETAILED SYLLABUS**

Unit	Contents
<b>1.</b>	<b>Introduction to Social Media Marketing (SMM)</b>
	<ul style="list-style-type: none"> <li>• The Role of Social Media Marketing Goals and Strategies</li> <li>• Identifying Target Audiences</li> <li>• Rules of Engagement for SMM</li> </ul>
<b>2.</b>	<b>Social Media Sites and Platforms</b>
	<ul style="list-style-type: none"> <li>• Social Media Platforms and Social Network Sites</li> <li>• Microblogging</li> </ul>
<b>3.</b>	<b>Media Sharing</b>
	<ul style="list-style-type: none"> <li>• Content Creation and Sharing: Blogging, Streaming Video, Podcasts, and Webinars Video Marketing</li> <li>• Marketing with Photos Sharing Sites</li> </ul>
<b>4.</b>	<b>Content Publishing and Media Sharing</b>
	<ul style="list-style-type: none"> <li>• Discussion, News, Social Bookmarking, and Q&amp;A Sites</li> <li>• Content Marketing: Publishing Articles, White Papers, and EBooks</li> <li>• Mobile Marketing on Social Networks</li> </ul>
<b>5.</b>	<b>SMM Plan</b>
	<ul style="list-style-type: none"> <li>• Social Media Monitoring</li> <li>• Tools for Managing the Social Media Marketing Effort</li> <li>• Social Media Marketing Plan</li> </ul>



## **E. RECOMMENDED STUDY MATERIAL**

Sr. No.	Book	Author	Edition	Publication
1.	Social Media Marketing: A Strategic Approach	Barker & Barker	2nd Edition	
2.	The Beginner's Guide to Digital Marketing	Digital Marketer	2015	
3.	Epic Content Marketing	Pulizzi, J. McGraw Hill Education	2014	

## **F. EVALUATION**

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

<b>BIDCID5213</b>	<b>SELLING AND NEGOTIATING SKILLS</b>	<b>2Credits [LTP: 1-0-2]</b>
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### **A. OBJECTIVE**

This intensive and practical course is designed to explain the various Selling and Negotiation techniques. In this course you'll understand what your preferred way of selling and negotiation is, and shall be able to achieve your objective to meet your clients 'needs.

### **B. COURSE OUTCOME**

- To learn about the importance of preparation in a negotiation deal and how to set about it
- To move through the stages of sales and negotiation to work towards a win-win situation
- To understand the different styles of negotiating
- To effectively close and confirm the negotiation and sale
- To understand the don'ts in negotiation and proven sales techniques

### **C. OUTLINE OF THE COURSE**

Unit No.	Title of the unit	Time Required for the Unit (Hours)
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1	Introduction to sales and negotiations	6
2	Preparing the skills	6
3	Communicating with the client	9
4	Proposal	9
5	Bargaining and Finishing the Deal	9

## **D. DETAILED SYLLABUS**

Unit	Contents
<b>1.</b>	<b>Introduction to sales and negotiations</b>
	<ul style="list-style-type: none"> <li>• Assessment of your current sales and negotiation strengths and improvement areas what is negotiation?</li> <li>• Knowing when to negotiate</li> <li>• Why do Negotiations break down?</li> <li>• How successful are you in Sales &amp; Negotiation?</li> <li>• Legal aspects in Sales &amp; Negotiation</li> </ul>
<b>2.</b>	<b>Preparing the skills</b>
	<ul style="list-style-type: none"> <li>• The Preparation Stage The importance of preparation</li> <li>• Why we need to prepare</li> <li>• What to prepare</li> <li>• Preparing a range of objectives</li> <li>• Constants and variables</li> <li>• Researching the other party</li> </ul>
<b>3.</b>	<b>Communicating with the client</b>
	<ul style="list-style-type: none"> <li>• Rapport building Opening the negotiation</li> <li>• Questioning techniques</li> <li>• Listening skills</li> <li>• Controlling emotions</li> <li>• Art of persuasion and emotional Intelligence</li> <li>• Influencing and assertiveness skills</li> <li>• Spotting the signs - non-verbal communication and voice clues</li> </ul>
<b>4.</b>	<b>Proposal</b>
	<ul style="list-style-type: none"> <li>• Stating your opening position</li> <li>• Responding to offers</li> <li>• Adjournments</li> <li>• Administering Contracts and Role of Negotiations</li> </ul>
<b>5.</b>	<b>Bargaining and Finishing the Deal</b>
	<ul style="list-style-type: none"> <li>• Making concessions - the techniques</li> <li>• Closing techniques</li> </ul>





	<ul style="list-style-type: none"> <li>• Confirming agreement</li> </ul>
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### **E. RECOMMENDED STUDY MATERIAL**

Sr. No.	Book	Author	Edition	Publication
1.	Fundamentals of Selling	Charles Futrell	10th edition	
2.	Negotiation	Lewicki, Saunders, Barry	6th edition	

### **F. EVALUATION**

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

<b>BULCHU5201</b>	<b>PROFESSIONAL SKILLS-I</b>	<b>1 Credits [LTP: 0-0-2]</b>
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### **COURSE OUTCOMES:**

On successful completion of the course the learners will be able to:

CO	Cognitive Abilities	Course Outcomes
CO-01	<b>Understanding/ Applying</b>	Compare the professional and personal approach towards any task and demonstrate their understanding by displaying professional attitude in the assigned tasks.
CO-02	<b>Understanding/ Applying/Creating</b>	Recognize, explain, and use the formal elements of specific genres of organizational communication: reports, proposals, memorandums, web pages, wikis, blogs, business letters, and promotional documents etc.
CO-03	<b>Understanding/ Applying</b>	Prepare and deliver a clear and fluent demonstrative, informative, and persuasive presentation and enlarge their vocabulary by keeping a vocabulary journal.



<b>CO-04</b>	<b>Understanding / Applying</b>	Demonstrate preparedness for any type of interview from classic one-on-one interview to panel interviews, Phone/Skype interviews, Behavioral/Situational etc. along with sharpening the ability to critically analyze a given piece of information and collectively work in a group to arrive at a solution or develop a perspective.
<b>CO-05</b>	<b>Creating/Applying</b>	Understand negotiation and time management to identify steps for proper negotiation preparation & learn bargaining techniques and strategies of inventing options for mutual gain and move negotiations from bargaining to closing.

<b>UNIT NO.</b>	<b>UNIT NAME</b>	<b>Hours</b>
<b>1</b>	Professional Attitude & Approach	4
<b>2</b>	Professional Writing-I	6
<b>3</b>	Presentation Skills: Structure Study	4
<b>4</b>	Interview Skills & Group Discussion	6
<b>5</b>	Negotiation Skills & Time Management	5

<b>LIST OF ACTIVITIES</b>	
1.	Professional & Ethical Approaches : Degree of adherence, Business world & meeting deadlines
2.	Job Hunting and Networking: Skill Branding & Usage of Online Platforms
3.	Trust Building & Cultural Etiquettes
4.	Professional Writing-I: Direct-Indirect approaches to Business Writing-Five main stages of writing Business Messages.
5.	Professional Email Writing
6.	Resume Building-I: Difference between C.V. & Resume, formats, points to cover, practice sessions
7.	E-Learning & E-Content Development-I
8.	Presentation Skills: format & structure of presentations, using tools & techniques
9.	Job Interviews I: Preparation and Presentation
10.	Advanced Group Discussion – I
11.	Negotiation Skills & and Conflict Resolution-I
12.	Professional Code of Ethics & Effective Time Management





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# SYLLABUS

## VI Semester

BIDCID6101	ADVANCE MATERIALS	2 Credit [LTP: 2-0-0]
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### A. OBJECTIVE

This course introduces to the study of innovative materials and technologies which are available in the market with cost, maintenance and impact on environment for development of appropriate design decisions.

### B. COURSE OUTCOME

After studying this course you should be able to:

- CO1. Need for advanced materials and technologies
- CO2. Knowledge of innovative materials and technologies, their applications in various spaces in interiors and being updated with current market trends.
- CO3. Exploring a wide range of materials and technologies with regards to Automation, Advanced lighting technologies, HVAC and thermal comfort, wall coverings, Flooring, Smart furniture, Walling and partitions



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- CO4. Impact of these materials on environment
- CO5. Application of advanced materials.

### **C. OUTLINE OF THE COURSE**

<b>Unit No.</b>	<b>Title of the unit</b>	<b>Time required for the Unit (Hours)</b>
1.	Introduction	4
2.	Designing interiors spaces to accommodate future uses	4
3.	Trends in global and Indian market	4
4.	Impact on environment - Green rating for materials	6
5.	View and Presentations	6

### **D. DETAILED SYLLABUS**

<b>Unit</b>	<b>Unit Details</b>
<b>1.</b>	<b>Introduction</b>
	<ul style="list-style-type: none"> <li>• Understand the advanced materials and technologies available.</li> <li>• The need and importance of advanced materials in interior design</li> </ul>
<b>2.</b>	<b>Designing interiors to accommodate future uses</b>
	<ul style="list-style-type: none"> <li>• Design multipurpose spaces that allow for adaptability, both for future uses and for several uses by the same occupants. .</li> <li>• Use modular design to foster adaptability.</li> <li>• Using modular or systems furniture, which allows for ongoing reconfiguration of space without major disruption to the permanent interior layout and electrical/mechanical distribution systems.</li> <li>• Exploring a wide range of materials and technologies with regards to Automation, Advanced lighting technologies, HVAC and thermal comfort, wall coverings, Flooring, Smart furniture, Walling and partitions</li> </ul>
<b>3</b>	<b>Trends in global and Indian market</b>
	<ul style="list-style-type: none"> <li>• Interior products with recycled content trending globally</li> <li>• Renewable materials like- Wheat straw, Corn stalks, Polylactide (PLA) (made from corn starch), Cork, Bamboo, Sunflower seed hulls, Soybeans, Wool, Linen, Silk, Ramie</li> <li>• Understand physical properties and visual characteristics of the materials like- dry wall, ceiling tile, insulation, carpet and carpet tile, resilient flooring, metal components, furniture, fabrics, tile, wall covering, and composite wood-based products. Many are made from sawmill waste, a pre-consumer recycled material.</li> <li>• Application, installation, maintenance and cost</li> </ul>
<b>4</b>	<b>Impact on environment - Green rating for materials</b>



	<ul style="list-style-type: none"> <li>• Understanding the impact of advanced materials on environment.</li> <li>• The importance and need of green rating for materials.</li> </ul>
<b>5</b>	<b>Implementation</b>
	<ul style="list-style-type: none"> <li>• Detailed study report on materials through case studies, factory visits, market studies</li> <li>• Design exercise: Design a space using advanced materials</li> </ul>

## **E. RECOMMENDED STUDY MATERIAL**

Sr.No.	Book	Author	Edition	Publication
1.	Interior Materials and Surfaces: The Complete Guide	Helen Bowers	2005	Firefly books
2.	Material Matters: New Materials in Design	Phil Howes Zoe Laughlin (Author)	2012	Black dog press

## **F. EVALUATION**

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

<b>BIDCID6201</b>	<b>INTERIOR DESIGN STUDIO - V</b>	<b>6 Credit [LTP: 0-4-4]</b>
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## **A. OBJECTIVE**

- To introduce to students, the interior design of a building with complexities related to multi-functional spaces, services, structures and large scale site planning.
- To accommodate more than one Building Plan.
- To help students evolve the integrated understanding of the complex relationship between forms, function and space.
- To initiate the concepts and implementation of campus planning layout plans, services in MEP, HVAC and structures, site planning, landscaping, pedestrian and vehicular movement and segregation for Large Scale Spaces.
- This course introduces HOSPITALITY INTERIORS-RESORT DESIGN.
- To help students evolve the integrated understanding of the complex relationship between , function and space of multifunctional area;

- For the entire semester, you will take up a single design

project – HOSPITALITY INTERIORS which may include- INTERIORS OF RESORT DESIGN, which will cover major areas of a resort, also including- cottages, rooms of different category, souvenir shop, banquet etc.

## **B. COURSE OUTCOME**

After studying this course you should be able to:

- CO1. Observe, research, document, and apply ergonomic and anthropometric aspects of interior design with respect to individual spaces.
- CO2. Understand the importance of case studies, and learn to do so.
- CO3. To learn to develop design concepts for the design problem introduced.
- CO4. To learn to transfer the conceptual idea into drawings & prepare technical design drawings for design problem.
- CO5. Detailed design implementation

## **C. OUTLINE OF THE COURSE**

<b>Unit No.</b>	<b>Title of the unit</b>	<b>Time required for the Unit(Hours)</b>
<b>1.</b>	<b>Introduction to design Project</b>	<b>16</b>
<b>2.</b>	<b>Case Studies</b>	<b>20</b>
<b>3.</b>	<b>Design Concept</b>	<b>20</b>
<b>4.</b>	<b>Technical drawings</b>	<b>20</b>
<b>5.</b>	<b>Layout Plans</b>	<b>20</b>

## **D. DETAILED SYLLABUS**

<b>Unit</b>	<b>Unit Details</b>
<b>1.</b>	<b>Introduction to design Project</b>
	<ul style="list-style-type: none"> <li>• To introduce to students, the design of a building with complexities related to hospitality, services, structures and site planning.</li> <li>• Conclusion and summary of unit.</li> </ul>
<b>2.</b>	<b>Case Studies</b>
	<ul style="list-style-type: none"> <li>• Introduction of unit.</li> <li>• Understanding the role &amp; process of a case study.</li> <li>• Choose &amp; select relevant case examples related to your project.</li> <li>• Understanding the principles and standards of different areas of a RESORT and also the anthropometry and ergonomics inside a given</li> </ul>



	<ul style="list-style-type: none"> <li>• Study and analyze an existing resort w.r.t. the design project.</li> </ul>
<b>3.</b>	<b>Design Concept</b>
	<ul style="list-style-type: none"> <li>• Developing concepts for the design project.</li> <li>• To help students evolve their design by understanding relationship between forms, function and space.</li> <li>• Explain your design idea with the help of sketches.</li> </ul>
<b>4.</b>	<b>Technical drawings</b>
	<ul style="list-style-type: none"> <li>• Plan, Sectional Elevation, furniture layout.</li> <li>• Detailed interior drawings.</li> <li>• Make appropriate furniture details.</li> </ul>
<b>5.</b>	<b>Layout Plans</b>
	<ul style="list-style-type: none"> <li>• Electrical layout.</li> <li>• Lighting layout.</li> <li>• Plumbing layout</li> <li>• Flooring pattern</li> <li>• Ceiling plan</li> <li>• Wall finishes</li> </ul>

### **MODEL EXERCISE/ ASSIGNMENTS/ PROJECTS:**

Project: HOSPITALITY INTERIORS/ RESORT DESIGN /

Students will strictly work on the interior part, of the given plan. They can get those plans from SPA Department too.

### **E. RECOMMENDED STUDY MATERIAL**

<b>Sr. No</b>	<b>Book</b>	<b>Author</b>	<b>Edition</b>	<b>Publication</b>
<b>1.</b>	Interior Design Reference Manual.	Ballast, David Kent	2010	Belmont, CA: Professional Publications Inc.
<b>2.</b>	Product and Furniture Design.	Kim, Young-Yun and Thompson, Rob	2011	London: Thames and Hudson.
<b>3.</b>	Furniture Design and Construction for the Interior Designer.	Natale, Christopher	2009	New York: Fairchild Books.
<b>4.</b>	Furniture: 50 Real-Life Projects Uncovered.	Saville, Laurel and Stoddard, Brooke.	2008	Minneapolis, MN: Rockport Publishers



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## **F. EVALUATION**

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

BIDCID6202	WORKING DRAWING – II	3 Credits [LTP: 0-2-2]
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## **A. OBJECTIVE**

The objective of the course is:

- To introduce the concepts and fundamentals of Working Drawing.
- To familiarize the students with the language of architecture & buildings as two dimensional and three dimensional representations.

## **B. COURSE OUTCOME**

After studying this course you should be able to:

- To prepare advanced level working drawings for a given building design.



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- To prepare structural layout with necessary details based on the structure of the building.
- To prepare detailed service drawing including electrical and plumbing layout along with schedules.
- To incorporate the knowledge of interior finishes and specifications for preparing working drawings.
- To document the entire set of working drawings with the aim of presenting the same for securing placement for practical training.

### **C. OUTLINE OF THE COURSE**

<b>Unit No.</b>	<b>Title of the unit</b>	<b>Time Required for the Unit (Hours)</b>
<b>1</b>	<b>Center Line Plan</b>	<b>8</b>
<b>2</b>	<b>Preparation of Service Drawings</b>	<b>10</b>
<b>3</b>	<b>Preparation of Interior Drawings</b>	<b>10</b>
<b>4</b>	<b>Preparation of BOQ</b>	<b>10</b>
<b>5</b>	<b>Construction Detail</b>	<b>10</b>

### **D. DETAILED SYLLABUS**

<b>Unit</b>	<b>Contents</b>
<b>1.</b>	<b>Center Line Plan</b>
	<ul style="list-style-type: none"> <li>• Preparation of Centre Line plan of large scale building</li> </ul>
<b>2.</b>	<b>Preparation of Service Drawings</b>
	<ul style="list-style-type: none"> <li>• Preparation of Supporting Drawing.</li> <li>• Preparation of Door Window Schedule and Details</li> <li>• Electrical Layout of all floors</li> <li>• Plumbing and Drainage Plan of All floors and terrace</li> <li>• HVAC layout</li> </ul>
<b>3.</b>	<b>Preparation of Interior Drawings</b>
	<ul style="list-style-type: none"> <li>• For the large scale project, the following set of drawings need to be produced.</li> <li>• Flooring detail, False Ceiling detail,</li> <li>• Wall finishes drawing, Specifications sheet</li> </ul>
<b>4.</b>	<b>Preparation of BOQ</b>
	<ul style="list-style-type: none"> <li>• Preparation of BOQ for major design project of Vth semester</li> </ul>
<b>5.</b>	<b>Construction Details</b>
	<ul style="list-style-type: none"> <li>• Other construction details related to the project.</li> </ul>



## **E. RECOMMENDED STUDY MATERIAL**

<b>Sr. No.</b>	<b>Book</b>	<b>Author</b>	<b>Edition</b>	<b>Publication</b>
1.	Working Drawing Handbook	Keith Syles	1998	Architectural Press Oxford
2.	Arch. Drawing and Light Construction	James G. Gausett , Edward J. Muller	1999	Grav – Prentice Hall
3.	The Professional Practice of Architectural Working Drawings	Osamu A. Wakita, Richard M. Linde and Nagy R. Bakhoun	4 th edition (2011)	John Wiley & Sons

## **F. EVALUATION**

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

**BIDCID6203**

**RESEARCH FOR INTERIORS &  
DISSERTATION COMPILATION**

**3 Credit [LTP: 0-2-2]**

### **A. OBJECTIVE**

- To do a research study related in the field of Interior Design.
- To provide the students an opportunity to undertake research work on a topic of their choice.
- To develop a research orientation among the students and to acquaint them with fundamentals of research methods
- Understand the principles and approaches of research methodology.

### **B. COURSE OUTCOMES**

After studying this course you should be able to:



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- CO1. Develop understanding of the basic framework of research process.
- CO2. Develop an understanding of various research designs and techniques.
- CO3. Identify various sources of information for literature review and data collection.
- CO4. Develop an understanding of the ethical dimensions of conducting applied research.
- CO5. Prepare a project proposal (to undertake a project)

### **C. OUTLINE OF THE COURSE**

Unit No.	Title of the unit
1.	Each student is required to conduct a non-design study on topic selected by the student and approved by the department. The study shall be conducted under the guidance of teacher or external expert in the department. This Dissertation should lead to a design problem to be taken up as a Thesis Topic in final semester.

### **D. RECOMMENDED STUDY MATERIAL**

Sr.No.	Book	Author	Edition	Publication
1.	Research Methodology	– C.R.Kothari		

### **E. EVALUATION**

Continuous assessment of session work may consist of evaluation of individual's writing and presentation skills, project work, power point presentations etc. At the end of semester a report compilation in hardbound printed format is required.

<b>BIDCID6204</b>	<b>INTERIOR LANDSCAPE DESIGN</b>	<b>3 Credit [LTP: 0-2-2]</b>
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### **A. OBJECTIVE**

The objective of the course is:

- To study the concepts of interior landscaping and their application in the design of interior spaces.
- To understand exposure to various concepts, ideas and techniques prevalent in interior landscape design.
- To develop an understanding about the design of interior landscape with special emphasis on the choice and care of plant materials used in the interior spaces.

### **B. COURSE OUTCOMES**

After studying this course you should be able to:



- CO1. Understands the scope of landscape architecture and elements of landscape in interior spaces.
- CO2. Understands the impact of human activities on the environment and the role of architect in mitigating it.
- CO3. Understand History of Landscape Architecture
- CO4. Develop the drawings required to solve various landscape construction details (paving, Curbs, steps, roof garden, retaining walls).
- CO5. Understand effect of time on planting design

### C. OUTLINE OF THE COURSE

Unit No.	Title of the unit	Time required for the Unit(Hours)
1.	Interior landscaping	12
2.	Physical requirements of plants	12
3.	Interior landscaping elements & principles	12
4.	Exercise on interior landscape	12
5.	Landscape design development	12

### D. DETAILED SYLLABUS

Unit	Unit Details
1.	<b>Interior landscaping</b>
	<ul style="list-style-type: none"> <li>• Definition of landscape</li> <li>• Classification of plants, indoor plants and their functions, layout &amp; components, Floriculture – commercial, ornamental, Selection of plants &amp; pest control.</li> <li>• Hardscape and Soft scape</li> </ul>
2.	<b>Physical requirements of plants</b>
	<ul style="list-style-type: none"> <li>• Physical requirements of plants – light, temperature, water, planting medium, soil separator, weight of plants, acclimatization &amp; maintenance.</li> <li>• Techniques to meet physical requirements.</li> <li>• Plant selection criteria in landscape based upon visual, functional, micro-climatic and ecological aspects.</li> <li>• Understanding effect of time on planting design.</li> <li>• Site analysis and Site planning.</li> </ul>
3.	<b>Interior landscaping elements &amp; principles</b>
	<ul style="list-style-type: none"> <li>• Various interior landscaping elements – water bodies - pools, fountains, cascades</li> <li>• Plants, rocks, artefacts, paving &amp; lighting, Design guidelines- plant texture &amp; colour, plant height, plant spacing.</li> <li>• <b>ROOF AND DECK LANDSCAPE</b></li> <li>• Protection of the integrity of the roof and structure, provisions for drainage, light weight planting medium, irrigation, selection of materials, water proofing, provision for utilities and maintenance.</li> </ul>
4.	<b>Exercise on interior landscape</b>



	<ul style="list-style-type: none"> <li>• Introduction to <b>Design Concept development</b></li> <li>• Design exercise for pervious semester design problem.</li> <li>• Conceptual zoning of landscape areas.</li> <li>• Conceptualization of different zones and materials required for it.</li> <li>• Segregation of hardscape &amp; softscape.</li> </ul>
<b>5.</b>	<b>Landscape design development</b>
	<ul style="list-style-type: none"> <li>• Documentation and presentation of master plan.</li> <li>• Layout plan</li> <li>• Material plan</li> <li>• Planting plan</li> <li>• Lighting plan</li> <li>• Basic gradation plan</li> <li>• Sections and elevations</li> </ul>

## **E. RECOMMENDED STUDY MATERIAL**

Sr. No.	Book	Author	Edition	Publication
1.	Time saver standards for landscape architecture			
2.	Planting design	Theodore D. Walker		VNR Publications New York
3.	Landscaping Principles and Practices	Jack E. Ingels		Ingels, Delmar Publishers.

## **F. EVALUATION**

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

<b>BIDCID6205</b>	<b>PORTFOLIO DEVELOPMENT &amp; PRESENTATION</b>	<b>2 Credit [LTP: 0-1-2]</b>
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## **A. OBJECTIVE**

This course will enable you to develop and design your own portfolio in hardcopy format. Techniques for making an online portfolio will also be discussed with you during the course. The portfolio need to showcase originality, style and philosophy of interior architecture and design. It should comprehensively showcase the skill and knowledge acquired during the course.

The objective of the course is:

- To produce a comprehensive portfolio presenting the acquired skills and capabilities of the student in various courses aligned to skills and techniques that the



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- industry requires.
- To involve technical analytical skills acquired during the course in developing a portfolio in a practical environment choosing a topic for the study displaying innovation and initiative, research investigation, collected primary and secondary data and communicate the same through portfolio development.

## **B. COURSE OUTCOME**

After studying this course you should be able to:

- CO1. Understand the portfolio themes and types of portfolio.
- CO2. Classify the different boards and its effectiveness in Portfolio.
- CO3. Showcase professional and technical capabilities
- CO4. Understand theme with different design concepts.
- CO5. Learn the development of fashion portfolio with computer aided design

## **C. OUTLINE OF THE COURSE**

Unit No.	Title of the unit	Time Required for the Unit (Hours)
1	Introduction	6
2	Photography	6
3	Compilation	6
4	Presentation	9
5	E-portfolio & virtual portfolio	9

## **D. DETAILED SYLLABUS**

Unit	Contents
1.	<b>Introduction</b>
	Importance of portfolio, Types of portfolios, Themes etc.
2.	<b>Photography</b>
	Stylized photography, Photo composition, effectiveness, etc.
3.	<b>Compilation</b>
	Selection and Compilation of work.
4.	<b>Presentation</b>
	Final presentation in the form Exhibition, Jury and print etc.
5.	<b>E-portfolio &amp; virtual portfolio</b>
	Introduction to e-portfolio & virtual portfolio

## **E. RECOMMENDED STUDYMATERIAL**

Sr.No.	Book	Author	Edition	Publication
1.	Figure Drawing for Fashion Design,	Drudi, E.	2011	Amsterdam, Pepin Press.



2.	Fashion Artist: Drawing Techniques to Portfolio Presentation	Bruke, S.	2006	U.K.,Burke Publishing.
3.	9.Heads: A Guide to Drawing Fashion,London,	Riegelman, N.	2006	London, Thames a Hudson.
4.	Colors for Modern Fashion: Drawing Fashion with ColoredMarkers	Riegelman, N.	2006	London, Thames a Hudson.

## **F. EVALUATON**

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

<b>BIDCID6211</b>	<b>HERITAGE INTERIORS</b>	<b>2 Credits [LTP: 0-1-2]</b>
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### **A. OBJECTIVE**

- To create awareness about the rich Indian cultural heritage and understand importance of conserving the heritage in modern context.
- To understand the spaces, volumes, materials, surfaces, constructive aspects, actual and past functions and configurations, degradation, etc. as a result of continuous modification through time



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## **B. COURSE OUTCOME**

After studying this course you should be able to:

- To be able to apply knowledge of heritage in modern day context through different space making elements.
- Understand about various region wise cultural impact on the elements of interior design.
- Research and document existing interior elements in context of heritage.
- To understand different construction techniques, and art and craft involved in making spaces of heritage interiors.
- Student will be able to Design a space in modern context using the knowledge of heritage interiors.

## **C. OUTLINE OF THE COURSE**

Unit No.	Title of the unit	Time required for the Unit (Hours)
1.	Introduction to heritage interiors	6
2.	Cultural Impact of heritage interiors	6
3.	Lighting Systems in Interiors	6
4.	Color Schemes in Interiors	9
5.	Design Scheme	9

## **D. DETAILED SYLLABUS**

Unit	Unit Details
1.	<b>Introduction to heritage interiors</b>
	<ul style="list-style-type: none"><li>• Introduction of unit</li><li>• Broad overview about the Indian heritage since Indus valley civilization till post-colonial era.</li><li>• Different elements of heritage interiors.</li><li>• Design in historical context.</li></ul>
2.	<b>Space planning of heritage buildings</b>
	<ul style="list-style-type: none"><li>• To study about various region wise cultural impact on the elements of interior design.</li><li>• Contextualization of spaces in buildings</li><li>• Impact of climate, region and culture on space planning</li></ul>
3.	<b>Traditional design technology</b>
	<ul style="list-style-type: none"><li>• To study the design technology used during the older times.</li><li>• Design and technology of heritage listed buildings.</li><li>• Wall, floor, windows etc. treatments during heritage context.</li><li>• Heritage conversions.</li></ul>
4.	<b>Research Study</b>



	<ul style="list-style-type: none"> <li>• Research and document existing interior elements in context of heritage.</li> <li>• Identify different construction techniques, and art and craft involved in making space.</li> </ul>
<b>5.</b>	<b>Documentation</b>
	<ul style="list-style-type: none"> <li>• Documentation of the researched area with understanding of the historical context with present scenario.</li> </ul>

## **E. RECOMMENDED STUDY MATERIAL**

<b>Sr. No</b>	<b>Reference Book</b>	<b>Author</b>	<b>Edition</b>	<b>Publication</b>
1.	Adaptive Reuse of the Built Heritage: Concepts and Cases of an Emerging Discipline	Bie Plevoets Koenraad Van Cleempoel	2019	pbc intl

## **F. EVALUATION :**

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

<b>BIDCID6212</b>	<b>PRODUCT DESIGN</b>	<b>2 Credits [LTP: 1-0-2]</b>
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### **A. OBJECTIVE**

To provide knowledge of product design and applying various techniques using innovative material to create products that are based on anthropological studies (universal design) integrating manufacturing and marketing processes.

### **B. COURSE OUTCOME**

- To understand and apply the elements of Interior Design & its impact on the interior layout and understand the spatial relationships according to the function of the space by applying principles of space planning in an interior layout



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- To acquire knowledge about anthropometrics of a given space
- To develop understanding and be able to design a chosen furniture by analyzing the different materials and produce detailed drawings
- To evaluate the importance of clients, brief and innovation in design.
- To design a product considering universal design.

### C. OUTLINE OF THE COURSE

Unit No.	Title of the unit	Time Required for the Unit (Hours)
1	Introduction to Product Design	6
2	Anthropology & Product design	6
3	Aspects of Product Design	9
4	Product Design	9
5	Industrial product design. Element design for differently abled	6

### D. DETAILED SYLLABUS

UNIT	CONTENTS
<b>1</b>	<b>Introduction to Product Design</b>
	<b>I A-</b> Introduction to Product Design, Importance, Definitions, History, Elements, Relevance, Role of Product designers <b>I B-</b> Designing a daily use small product. Eg: Calendar, cup, stationary organizer, coasters, etc.
<b>2</b>	<b>Anthropology &amp; Product design</b>
	<b>II A -</b> Human factors influencing product design and its application - Anthropology, activities, nature, behavior and effects - Physical environment, relationship between man and machine - Information processing and Control system in Humans - Application of anthropometry in response to environment <b>II B-</b> Designing a daily use object applying human activities eg: Chair, table etc.
<b>3</b>	<b>Aspects of Product Design</b>
	<b>III A-</b> Understanding Human sensory system and its mechanism, Arrangement of physical space - Visual sensory, processing, qualitative and quantitative aspects - Alphanumeric, symbols & codes. <b>III B-</b> Design a visual sensory based product
<b>4</b>	<b>Product Design</b>
	<b>IV A-</b> Design principles and elements applying specific criteria based on requirements or client brief, - Using innovative Material and construction technology and environment friendly - Flexible, versatile and user-friendly product designing <b>IV B-</b> Designing a Multi utility product.
<b>5</b>	<b>Industrial product design. Element design for differently abled</b>



	<b>V A-</b> Introduction to Industrial design - Introduction to universal design in product - Understanding design for differently abled <b>V B-</b> Designing Industrial design product considering universal design.
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**E. MODEL EXERCISE/ ASSIGNMENTS/ PROJECTS:**

- Seminar presentations (Student works open for all) / Multimedia presentations/PPT's
- Market surveys for latest materials available in market
- Analyzing interiors of existing buildings
- Group Discussions / Flipped Classrooms

**F. RECOMMENDED STUDY MATERIAL:**

Sr. N	Reference Book	Author	Edition	Publication
1	An introduction to Art, Craft, Technique, Science & Profession of Interior Design	A Kasu		
2	Handbook of Speciality elements in Architecture	McGrawhill Co. USA	1982	
3	Time Saver standards for Interior Design			
4	An invitation to Design	Helen Maric Evans		
5	Interior design illustrated	D.K. Ching		

<b>BIDCID6213</b>	<b>SUSTAINABLE DEVELOPMENT IN INTERIOR DESIGN</b>	<b>2 Credits [LTP: 1-0-2]</b>
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**A. OBJECTIVE**

To study and analyze the salient aspects of sustainability and the need of study in the present context of contemporary world and challenges.

**B. COURSE OUTCOME**

After studying this course you should be able to:

- CO1. To develop an understanding of the need for Environmental Clearance, role of various agencies/committees, environmental laws, regulatory authorities and process of clearance
- CO2. To have knowledge of need and purpose of EIA, its process and Impact on the environment, society and culture
- CO3. To be aware of the different green rating agencies and their criteria's for providing certification both applicable in India and Abroad
- CO4. To be aware of LEED as a tool for measuring and rating a building's environmental performance.
- CO5. To be aware of GRIHA as a tool for measuring and rating a building's environmental performance so as to evaluate building design and site development as a step towards sustainable development.

### **C. OUTLINE OF THE COURSE**

Unit No.	Title of the unit	Time Required for the Unit (Hours)
1	Concepts of sustainability	6
2	Sustainable Concept in Interior Designing	6
3	Sustainable Building Materials and Construction	6
4	Recycling and Reuse	9
5	Case Studies and Rating systems	9

### **D. DETAILED SYLLABUS**

Unit	Contents
1.	<p><b>Concepts of sustainability</b></p> <ul style="list-style-type: none"> <li>• Introduction to Unit</li> <li>• Energy and Global environment, Energy use and Climate change – Its impact, Types of Energy systems,</li> <li>• Concept of Sustainability - Principles of conservation -synergy with nature</li> <li>• Ethical- environmental degradation</li> <li>• Summary &amp; conclusion of unit</li> </ul>
2.	<p><b>Sustainable Concept in Interior Designing</b></p> <ul style="list-style-type: none"> <li>• The Concept of Sustainable Interiors.</li> <li>• Sustainable interiors designing by adopting various policies.</li> <li>• Principles of Sustainable Interior Design.</li> <li>• Benefits of Green Interiors</li> </ul>



	<ul style="list-style-type: none"> <li>• Elements associated to IEQ</li> </ul>
<b>3.</b>	<b>Sustainable Building Materials and Construction</b>
	<ul style="list-style-type: none"> <li>• Introduction to Unit</li> <li>• Properties, Uses and Examples of -Primary, secondary and Tertiary Sustainable Materials, Principles to improve the energy efficiency - siting and vernacular design, shade, ventilation, earth shelter, thermal inertia and air lock entrances.</li> <li>• Techniques of sustainable construction - technologies, methods of effectiveness, and design synthesis</li> <li>• Alternative materials and construction methods:</li> <li>• Use of local materials and on site growth of food, fuel and building materials</li> <li>• Summary &amp; conclusion of unit</li> </ul>
<b>4.</b>	<b>Recycling and Reuse</b>
	<ul style="list-style-type: none"> <li>• Pre building, Building, Post building stages - Architectural Reuse, Waste prevention,</li> <li>• Construction and Demolition recycling- Conservation of natural and building resources</li> <li>• Energy and material savings</li> <li>• Types of wastes</li> <li>• Elimination of waste and minimize pollution- various Decomposing methods</li> <li>• Innovative reuse of various wastes</li> </ul>
<b>5.</b>	<b>Case Studies and Rating systems</b>
	<ul style="list-style-type: none"> <li>• Sustainable Development Case Studies: illustrated examples of the planning, development, and construction.</li> <li>• Green Interiors and various national and international rating systems for sustainability in the field of Interior Design</li> <li>• Conduct a study on concept of green building. Visit any green building; absorb the place, design, interior elements, materials and construction techniques. Interview with appropriate persons and make a case study report.</li> </ul>

## E. RECOMMENDED STUDY MATERIAL

Sr. No.	Book	Author	Edition	Publication
1.	Integrated approach to sustainable Development	B.C.Bose		Rajat Publications, Delhi
2.	Environmental control systems Heating, Cooling, Lighting	Fuller Moore		McGraw Hill, Newyork.
3.	Sustainable practices in built environment	Caring	2 nd Edition	Butterworth-Heinmann Linacre House Jordanhill



		A.Langston, Grace K.C.Ding		Oxford
4	Sustainable Building Design Manual Vol I & II			TERI, New Delhi
5	GRIHA Manual (Vol 1-5)			TERI, New Delhi

## **F. EVALUATION**

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

<b>BULCHU6201</b>	<b>PROFESSIONAL SKILLS-II</b>	<b>1 Credits [LTP: 0-0-2]</b>
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## **COURSE OUTCOMES:**

On successful completion of the course the learners will be able to:

<b>CO</b>	<b>Cognitive Abilities</b>	<b>Course Outcomes</b>
<b>CO-01</b>	<b>Understanding/ Applying</b>	Learn how to update and manage the experience, education, and skills & expertise sections on social media



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		& formulate appropriate updates as a means to promote business activities.
<b>CO-02</b>	<b>Understanding/ Applying</b>	Understand how to leverage grammar and formatting in formal documents & demonstrate how to follow the stages of the writing process (prewriting/writing/rewriting) and apply them to technical and workplace writing tasks.
<b>CO-03</b>	<b>Understanding/ Applying</b>	Evaluate presentation's weak spots and areas for improvement & learn, practice and acquire the skills necessary to deliver effective presentation with clarity and impact.
<b>CO-04</b>	<b>Understanding / Applying</b>	Evaluate basic factors such as personal skills & abilities, career fields, willingness to learn and strengthen the chances to get desirable jobs.
<b>CO-05</b>	<b>Creating/Applyi ng</b>	Understand negotiation and team skills dynamics and how to prepare for uncertainty & learn to craft agile strategy and be quick on your feet in changing circumstances.

<b>UNIT NO.</b>	<b>UNIT NAME</b>	<b>Hours</b>
<b>1</b>	Personal Branding	4
<b>2</b>	Professional Writing-II	6
<b>3</b>	Presentation Skills: Professional Setting	4
<b>4</b>	Job Interview& Group Discussion : Preparation by Mock Practice	6
<b>5</b>	Negotiation Skills, Team Management & Professional Awareness	5

<b>LIST OF ACTIVITIES</b>	
1.	Personal Branding : Its best practices
2.	Professional Writing II: Abstract Writing, Statement of purpose and other formal documents
3.	Expanding Professional Vocabulary
4.	Resume Building-II: Revising & Updating
5.	E-Learning & E-Content Development-II
6.	Presentation Skills in Professional Setting
7.	Job Interviews II: Preparation and Presentation for Mock Interviews
8.	Advanced Group Discussion-II: Analysis of professional GD Videos and Practices on Topics/Video/Article based topics
9.	Negotiation Skills & and Conflict Resolution-II
10.	Change and Transition Management
11.	Team Building Strategies: Project Management
12.	Career Awareness & Productive Mindset







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# SYLLABUS VII Semester

BIDCID7501	Practical Training (Internship)	6 Credit [LTP: 0-0-0]
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## A. OBJECTIVE

The course enables you to get associated with the architecture & interior industry and design firms and gain first-hand experience of the working systems of the industry. The period of internship is for 140 days and you are required to return to college after completion of the internship. You may utilize the summer break and join your internship during summer break, so you can get an experience of more than 140 days, if you desire.

During the internship period you are required to be in contact with the course module tutor and update him/her regularly to discuss your progress. During your internship period, your module tutor will also be in contact with your industry mentor in order to get appraised on your performance.

The objective of the course is:

- To enable you to understand and become familiar with prevalent commercial and industrial practices and standards.



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- To provide opportunity to understand professionalism and adapt to the pace and pressures in a professional environment.
- To enable you to develop professional presentation abilities.
- To enhance knowledge and skills in a practical, hands-on Industry environment.

## **B. COURSE OUTCOME**

After studying this course you should be able to:

- To be oriented under an Interior Designer, Architect registered under COA or equivalent foreign body.
- To be a part of the process of development of conceptual ideas, presentation skills, involvement in office discussions and client meetings.
- To develop the concepts into working drawings and forward with the process of tendering procedure, site supervision during execution and coordination with the agencies involved in the construction process.
- To facilitate the understanding of the evolution of an architectural project from design to execution.
- To be a part of an actual working organization and have a practical learning experience during studies.

## **C. OUTLINE OF THE COURSE**

Unit No.	Title of the unit	Time Required for the Unit (Days)
1	Practical Training (Internship) & its Seminar	140

## **D. DETAILED SYLLABUS**

Unit	Contents
1.	<b>Practical Training (Internship) &amp; its Seminar</b>
	<ul style="list-style-type: none"> <li>• Student shall work for a period of 140 days in an office of Architect/Interior Designer/Product Designer approved by the institution.</li> <li>• Student shall be submitting weekly/monthly work report</li> <li>• Student shall be submitting critical appraisal of built projects</li> <li>• Student shall be submitting documentation of architectural details and site supervision of built projects.</li> <li>• Student will also have to submit the research as per the supervision by the Guide.</li> </ul>

## **E. EVALUATION**

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





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# SYLLABUS

## VIII Semester

BIDCID8101	ENTREPRENEURSHIP SKILLS FOR INTERIOR DESIGNERS	2 Credits [LTP: 2-0-0]
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### **A. OBJECTIVE**

To introduce set up for business as an Interior Designer, to develop the creative and leadership skills for the same and to develop the confidence and skills in preparing business plans and to propose and sell ideas to potential clients and investors.

### **B. COURSE OUTCOME**

After studying this course you should be able to:

- CO1. Confidence building towards establishing, operating and managing an enterprise
- CO2. Strategic skill development for architectural business operations
- CO3. Critical awareness towards factors of human resource, office accounting, and business management



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- CO4. Develop managerial skills for collaborating with colleagues, employees, clients, and vendors
- CO5. To manage and handle multiple clients and projects collaboratively

### **C. OUTLINE OF THE COURSE**

<b>Unit No.</b>	<b>Title of the unit</b>	<b>Time Required for the Unit (Hours)</b>
<b>1</b>	<b>Introduction to Course</b>	4
<b>2</b>	<b>Product Management</b>	4
<b>3</b>	<b>Business and Company Law</b>	4
<b>4</b>	<b>Communication</b>	6
<b>5</b>	<b>Case Study</b>	6

### **D. DETAILED SYLLABUS**

<b>Unit</b>	<b>Contents</b>
<b>1.</b>	<b>Introduction to Course</b>
	<ul style="list-style-type: none"> <li>• Introduction Skill of an entrepreneur – Leadership, Initiative, Motivation</li> <li>• Management of Time, People and Resources</li> <li>• Interpersonal relationship skills required in an organization</li> </ul>
<b>2.</b>	<b>Account Management</b>
	<ul style="list-style-type: none"> <li>• Introduction to Accountancy for Business</li> <li>• Introduction to financial, cost and management accountancy</li> <li>• Basic records: balance sheet, profit and loss account</li> <li>• Measurement of income</li> <li>• Valuation of assets</li> <li>• Preparation of income sheet and balance sheet</li> </ul>
<b>3.</b>	<b>Business and Company Law</b>
	<ul style="list-style-type: none"> <li>• Meaning of Company Companies Act</li> <li>• Types of companies, articles, and memorandum of association, prospects, powers, duties and liabilities of directors</li> <li>• Definition of Contract, types and elements of a contract, breach of contract and its remedies</li> <li>• Quasi contract</li> <li>• Contract of Agency</li> </ul>
<b>4.</b>	<b>Communication</b>
	<ul style="list-style-type: none"> <li>• Work place communication</li> <li>• Strategies for writing: e-mails, report, minutes, annual report, status report, survey report, proposal, memorandum, profile of organization, responding to enquiries, complaints, applications Oral presentation</li> </ul>



5.	Case Study
	<ul style="list-style-type: none"> <li>• Project management – Concept of a Project – Categories of Project - Project life cycle Definition of project management - The project as a conversion Process - project environment - complexity of projects - the relationship between project Management and line management - current issues in project management- system approach to project management - Roles and responsibilities of project manager.</li> <li>• Project planning - project planning as a value adding activity.</li> <li>• Innovation in business, Working in an environment for creativity, The Creative Problem</li> </ul>

### **E. RECOMMENDED STUDY MATERIAL**

Sr. No.	Book	Author	Edition	Publication
1.	Dynamics of Entrepreneurial Development and Management	Vasanth Desai		Himalaya Publishing House
2.	Entrepreneurial Development	N.P.Srinivasan & G.P. Gupta		Sultan Chand & Sons.
3.	Essentials of New Product Management	Urban, Hauser, and Dholakia, N		
4	Entrepreneurship and Innovation Concepts, Contexts and Commercialization	Robin Lowe and Sue Marriott, Enterprise		
5	Project Management	Harvey Maylor		Macmillan India Ltd.

### **F. EVALUATION**

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



BIDCID8201	THESIS DESIGN PROJECT	12 Credits [LTP: 0-2-20]
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### **A. OBJECTIVE**

Individual design project approved by department.

### **B. COURSE OUTCOME**

After studying this course you should be able to:

- To be able to analyze Interior Design by dividing it into its organizational, structural, functional and experiential components
- To develop critical thinking and social responsibility
- To demonstrate competency in reading and producing Interior Design drawings, making physical models and/or producing 2D and 3D digital models and communicate their ideas using techniques and conventions of design representation
- To understand the social and political implications inherent in design interventions, and to make design drawing required for executing a project and take responsibility for their design choices and judgments



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- To produce a creative project responding to a specific or typical program consisting a design solution or an original contribution to disciplinary knowledge

### **C. DETAILED SYLLABUS**

<b>Unit</b>	<b>Contents</b>
1.	Large scale project (more than 10,000 sqft site Area) having complexity of Interior Design resolutions. Culmination of all the skills acquired of Interior Design. Individual understanding of Interior Design theory, philosophy and style. Student shall engage in study, documentation, analysis and design process of the project. The theoretical part to be put together in the form of a report and the design solution to be presented in hard/soft copy with a model.

### **D. RECOMMENDED STUDY MATERIAL**

<b>Sr. No.</b>	<b>Book</b>	<b>Author</b>	<b>Edition</b>	<b>Publication</b>
1.	Not Applicable			

### **E. EVALUATON**

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



