



डॉ. हरीसिंह गौर विश्वविद्यालय, सागर (म.प्र.)
(केन्द्रीय विश्वविद्यालय)
DR. HARISINGH GOUR VISHWAVIDYALAYA, SAGAR (M. P.)
(A Central University)

No./DoAA/2022/ 263

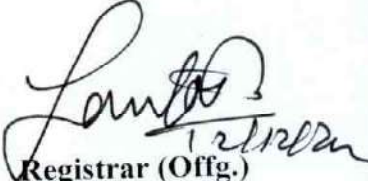
12 December 2022

NOTIFICATION

It is notified that in the exercise of its powers vested under Section 28(2) of the Central Universities Act, 2009 and Statute 37 of the Statutes contained in the Second Schedule of the Central Universities Act, 2009, the Executive Council of Dr. Harisingh Gour Vishwavidyalaya, Sagar, in its 28th Meeting held on 14 November 2022, has made/amended the following Ordinances of the Vishwavidyalaya:

Sl. No.	Ordinance No.	Description
1.	Ordinance 07 (Amended)	Department in Schools of Studies
2.	Ordinance 57 (Amended)	On Medals from Endowment Funds
3.	Ordinance 63 (New)	Courses of Study for the award of Bachelor of Technology (B.Tech 4 Year Degree Programme)
4.	Ordinance 64 (New)	Courses of Study for the award of Bachelor of Vocation (B.Voc.) in Interior Design

In terms of the provisions contained in Statute-37, the above Ordinances have come into effect immediately after the approval of the Executive Council.


Registrar (Offg.)

Copy for information and necessary action to:-

1. All Deans and Directors.
2. All Heads of the Departments
3. Prof. I/c Librarian, Prof. I/c Finance Officer and I/c Controller of Examinations.
4. I/c Website for uploading the same on the Vishwavidyalaya website.
5. PS to VC - for information of Hon'ble VC please.
6. PA to Registrar.
7. Guard File.


Deputy Registrar (Academics)

ORDINANCE-7

DEPARTMENTS IN SCHOOLS OF STUDIES

(Under Statute 15(5)(a) of the Statutes of the Central Universities Act, 2009)

Existing	Proposed Amendment	Read After Amendment	Justification																																																
<p>1. The University shall have the following Schools of Studies and Departments/Centers within the School. The following abbreviations and corresponding codes are assigned for the various Schools and the Departments:-</p> <table> <tr> <th>S No.</th><th>Name of School(s)</th><th>Abbreviation</th><th>Code</th></tr> <tr> <td>1.</td><td>School of Arts and Information Sciences</td><td>(AIS)</td><td>10</td></tr> <tr> <td>a)</td><td>Department of Journalism and Mass Communication</td><td>(JMC)</td><td>11</td></tr> <tr> <td>b)</td><td>Department of Library and Information Science</td><td>(LIS)</td><td>15</td></tr> <tr> <td>c)</td><td>Department of Fine Arts and Performing Arts</td><td>(F.A.P)</td><td>16</td></tr> <tr> <td>d)</td><td>Department of Music</td><td>(DOM)</td><td>18</td></tr> </table>	S No.	Name of School(s)	Abbreviation	Code	1.	School of Arts and Information Sciences	(AIS)	10	a)	Department of Journalism and Mass Communication	(JMC)	11	b)	Department of Library and Information Science	(LIS)	15	c)	Department of Fine Arts and Performing Arts	(F.A.P)	16	d)	Department of Music	(DOM)	18	No Change	<p>1. The University shall have the following Schools of Studies and Departments/Centers within the School. The following abbreviations and corresponding codes are assigned for the various Schools and the Departments:-</p> <table> <tr> <th>S No.</th><th>Name of School(s)</th><th>Abbreviation</th><th>Code</th></tr> <tr> <td>1.</td><td>School of Arts and Information Sciences</td><td>(AIS)</td><td>10</td></tr> <tr> <td>a)</td><td>Department of Journalism and Mass Communication</td><td>(JMC)</td><td>11</td></tr> <tr> <td>b)</td><td>Department of Library and Information Science</td><td>(LIS)</td><td>15</td></tr> <tr> <td>c)</td><td>Department of Fine Arts and Performing Arts</td><td>(FAP)</td><td>16</td></tr> <tr> <td>d)</td><td>Department of Music</td><td>(DOM)</td><td>18</td></tr> </table>	S No.	Name of School(s)	Abbreviation	Code	1.	School of Arts and Information Sciences	(AIS)	10	a)	Department of Journalism and Mass Communication	(JMC)	11	b)	Department of Library and Information Science	(LIS)	15	c)	Department of Fine Arts and Performing Arts	(FAP)	16	d)	Department of Music	(DOM)	18	
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<p>2. School of Humanities and Social Sciences (HSS) 20</p> <table> <tr> <td>a)</td><td>Department of Ancient Indian History, Culture and Archeology</td><td>(AIH)</td><td>21</td></tr> <tr> <td>b)</td><td>Department of Economics</td><td>(ECO)</td><td>22</td></tr> </table>	a)	Department of Ancient Indian History, Culture and Archeology	(AIH)	21	b)	Department of Economics	(ECO)	22	No Change	<p>2. School of Humanities and Social Sciences (HSS) 20</p> <table> <tr> <td>a)</td><td>Department of Ancient Indian History, Culture and Archeology</td><td>(AIH)</td><td>21</td></tr> <tr> <td>b)</td><td>Department of Economics</td><td>(ECO)</td><td>22</td></tr> </table>	a)	Department of Ancient Indian History, Culture and Archeology	(AIH)	21	b)	Department of Economics	(ECO)	22																																	
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c)	Department of History	(HIS)	23	No Change	Economics				
d)	Department of Philosophy	(PHL)	24		c)	Department of History	(HIS)	23	
e)	Department of Psychology	(PSY)	25		d)	Department of Philosophy	(PHL)	24	
f)	Department of Political Science and Public Administration	(PPA)	26		e)	Department of Psychology	(PSY)	25	
g)	Department of Sociology and Social Work	(SSW)	27		f)	Department of Political Science and Public Administration	(PPA)	26	
					g)	Department of Sociology and Social Work	(SSW)	27	

Pharmaceutical Science		Technology		b) Department of Pharmaceutical Science	(PHS)	54	Electronics & Communication Engineering under the program Engineering & Technology
				c) Centre of Engineering & Technology	(CET)	55	
6. School of Biological Science (SBS)		No Change		6. School of Biological Science (SBS)		60	
a) Department of Botany	(BOT)	61		a) Department of Botany	(BOT)	61	
b) Department of Biotechnology	(BIT)	62		b) Department of Biotechnology	(BIT)	62	
c) Department of Microbiology	(MIC)	64		c) Department of Microbiology	(MIC)	64	
d) Department of Zoology	(ZOO)	65		d) Department of Zoology	(ZOO)	65	
7. School of Chemical Sciences and Technology (SCT)		No Change		7. School of Chemical Sciences and Technology (SCT)		56	
a) Department of Chemistry	(CHE)	66		a) Department of Chemistry	(CHE)	66	
8. School of Mathematical and Physical Sciences (MPS)		No Change		8. School of Mathematical and Physical Sciences (MPS)		70	
a) Department of Computer Science and Applications	(CSA)	71		a) Department of Computer Science and Applications	(CSA)	71	
b) Department of Mathematics and Statistics	(MTS)	72		b) Department of Mathematics and Statistics	(MTS)	72	
c) Department of Physics	(PHY)	73		c) Department of Physics	(PHY)	73	
9. School of Commerce and Management (SCM)		No Change		9. School of Commerce and Management (SCM)		80	
a) Department of Commerce	(COM)	81		a) Department of Commerce	(COM)	81	
b) Department of Business Management	(BUM)	82		b) Department of Business Management	(BUM)	82	
10. School of Law (SAL)		No Change		10. School of Law (SAL)		90	

a)	Department of Law	(LAW)	91		a)	Department of Law	(LAW)	91	
11. School of Educational Studies (SES) 94				Dept. of Lifelong Education	11. School of Educational Studies (SES) 94				
a)	Department of Education	(EDU)	95		a)	Department of Education	(EDU)	95	
b)	Department of Physical Education	(PED)	96		b)	Department of Physical Education	(PED)	96	
c)	Department of Yoga Education	(YSC)	97		c)	Department of Yoga Education	(YSC)	97	
d)	Department of Adult Education	(AED)	98		d)	Department of Lifelong Education	(AED)	98	

Existing	Proposed Amendment	Read After Amendment	Justification
2. The University may add new School(s)/ Department(s)/Center(s) to a school which does not exist presently after obtaining prior administrative approval of the UGC.	The University may add New Department(s)/ Centre(s) to a School which does not exist presently after approval of the Executive Council on the recommendation of Academic Council.	The University may add New Department(s)/ Centre(s) to a School that does not exist presently after approval of the Executive Council on the recommendation of the Academic Council.	The proposed amendment is in accordance with Statute 15(5)(a) of the statutes contained in Second Schedule of central University Act, 2009.


ORDINANCE-57

ON MEDALS FROM ENDOWMENT FUNDS

(Under section 28(m) of the Central Universities Act 2009)

Existing		Proposed Amendment	Read After Amendment	Justification
1. Short Title:	Each Endowment shall be known after the person as specified by the donor.	No Change		
2. Amount of Endowment	A minimum of Rs. 1,00,000/-(Rupees One Lakh) only	2. Amount of Endowment : A minimum of Rs. 2,50,000/-(Rupees Two Lakh Fifty Thousand) only	2. Amount of Endowment : A minimum of Rs. 2,50,000/-(Rupees Two Lakh Fifty Thousand) only	The interest accrued on the present minimum amount of Rs. 1,00,000 is not sufficient to be utilized for the award of a Medal
3. Manner by which the Endowment will be invested:	The amount of Rs. 1,00,000/-(Rupees One Lakh) shall be invested in a long term fixed deposit linked with a Savings Bank Account with a Nationalized Bank or any other Government Financial Institution in any suitable scheme, so that the interest accrued thereon is utilized for the award of a Medal.	3. Manner by which the Endowment will be invested: The amount Rs. 2,50,000/-(Rupees Two Lakh Fifty Thousand) only shall be invested in a long term fixed deposit linked with a Savings Bank Account with a Nationalized Bank or any other Government Financial Institution in any suitable scheme, so that the interest accrued thereon is utilized for the award of a Medal.	3. Manner by which the Endowment will be invested: The amount Rs. 2,50,000/-(Rupees Two Lakh Fifty Thousand) only shall be invested in a long term fixed deposit linked with a Savings Bank Account with a Nationalized Bank or any other Government Financial Institution in any suitable scheme, so that the interest accrued thereon is utilized for the award of a Medal.	



4. Purpose of the Endowment:	The accrued interest of the Endowment from its Fixed Deposit Account for each year should be drawn rounded to nearest hundred rupees (from the Savings Bank Account) and should be utilized for the award of a Medal.	No Change		
5. Mode of Selection:	Medal will be awarded to the candidates securing maximum marks (1 st Rank) at the Final University examination in the year of award in the discipline(s) specified by the donor.	No Change		
6. Time of Award:	The Medal shall be awarded in the Ceremony on 'Gour Jayanti' on 26 th November each year along with a citation. The citation in this regard shall be prepared by the Controller of Examinations of the Vishwavidyalaya.	No Change		
7. Value of the Medal:	The value of the Medal awarded in a particular year shall be limited to 75 percent of the interest earned on the principal of the preceding year. The balance amount is to be added to the principal.	No Change		
8. Period from which the Fund will be operated:	The first award of the Medal shall start after one year of the investment made after receipt of the endowment fund of the provided the result of the discipline in which the medal is to be	No Change		

	awarded has been declared failing which medal shall be awarded in the succeeding year along with the award due in the next year.			
9. Custodian of the Endowment	The Finance Officer of the Vishwavidyalaya shall be the custodian of the Endowment Fund. S/he shall maintain all accounts in respect of the Endowment Funds.	No Change		



ORDINANCE-63

ORDINANCE ON COURSES OF STUDIES FOR THE AWARD OF BACHELOR OF TECHNOLOGY (B.TECH 4 YEAR DEGREE PROGRAMME)

UNDER THE INSTITUTE OF ENGINEERING AND TECHNOLOGY (IoET)

(Under Section 28(1)(b), 28(1)(c), and 28(1)(g) of the Central Universities Act, 2009)

1.0 BACHELOR OF TECHNOLOGY

- 1.1 The first degree in Technology of four-year (eight semesters) course, hereinafter called 4-YDC, shall be designated as BACHELOR OF TECHNOLOGY, in respective Branch.
- 1.2 The studies and examinations of Bachelor of Technology courses (Approved by All India Council for Technical Education, New Delhi) shall be on the basis of scheme.

2.0 ADMISSIONS

- 2.1 Minimum qualification for admission into Bachelor of Technology Course shall be as per the prevalent norms of the AICTE for the course of Bachelor of Technology.
- 2.2 Minimum qualification for direct admission to second year Bachelor of Technology Course termed as Lateral Entry shall be as per the prevalent norms of AICTE.
- 2.3 The admissions to B.Tech course shall be governed by the rules of the AICTE/as per university norms.

3.0 STRUCTURE OF BACHELOR OF TECHNOLOGY (B.Tech.) PROGRAMME

- 3.1 The total credits for the award of B.Tech degree in any branch shall lie between 20-24 credits.
- 3.2 Minimum credits required to earn B.Tech. Degree in a particular branch shall be decided by the concerned Board of Studies (BOS), adhering to broad distribution of credits among various categories of courses as per details given in Table-I below, and shall be approved by the standing committee of the Academic Council and the Executive Council of the University.



- 3.3 The subjects to be studied in different semester of Bachelor of Technology course shall be as per the schemes and syllabus, approved by Board of Studies.
- 3.4 A Candidate shall also be permitted to earn additional credits in self leaning mode through Massive Open Online Courses (MOOCs). If a candidate earns 20 more credits than the minimum credits prescribed by the respective board of studies (of that programme/course) for the award of Degree, then he/she shall be eligible of Degree with Honours.
- 3.5 A List containing permitted courses for MOOCs along with their credits shall be prescribed by the respective BOS and shall be notified by the University from time to time.
- 3.6 There shall be one University Examination at the end of each semester. These examinations will be designated as follows:
- a) During First Year
 - First Semester B.Tech. Exam and Second Semester B.Tech. Exam
 - b) During Second Year
 - Third Semester B.Tech. Exam and Fourth Semester B.Tech Exam
 - c) During Third Year
 - Fifth Semester B.Tech. Exam and Sixth Semester B.Tech Exam
 - d) During Fourth Year
 - Seventh Semester B. Tech. Exam and Eighth Semester B.Tech Exam
- 3.7 The semester examination will generally be held in November-December and April-May in each year.
- 3.8 There will be a full examination at the end of each semester consisting of end semester examination of theory and practical subjects.

4.0 PROMOTION TO HIGHER SEMESTER AND YEAR

A candidate who has been admitted in the Technology course will be promoted to the higher year/semester in accordance with the following rules:

- 4.1 (a) A candidate who has taken admission in A-B Group and has appeared in the examination of odd semester of a particular year, shall automatically be promoted to even semester of that year, irrespective of failing in any number of subjects of previous semester.



- (b) A candidate who has taken admission in the even semester under B-A Group and has appeared in the examination of even semester shall automatically be promoted to next applicable odd semester of that year, irrespective of failing in any number of subjects of previous semester.

Note: A candidate who seeks admission, in a new year of the course, in an odd semester of that year is said to be in A-B group, while, a candidate who seeks admission, in a new year of the course in even semester of that year is said to be in B-A group. i.e. a Candidate of A-B Group will take admission generally in July; whereas, candidate of B-A Group will take admission generally in January in the relevant academic year.

- 4.2 For the award of degree minimum Cumulative Grade Point Average (CGPA) required is 5.0.
- 4.3 To pass a particular subject of the course the minimum required grade is D. However, the candidate should also separately score minimum of grade D in end semester examinations of theory and practical parts of that subject. For practical end semester examinations one external examiner from outside the institute shall always be there.
- 4.4 A candidate who fails to score minimum of grade D in more than five subjects (Theory and Practical of the same subject shall be treated as two different subjects) in a particular year, shall not be admitted to the next higher year.
- 4.5 Further, a candidate shall not be admitted in the fifth or higher semester classes unless he/she has fully passed the first year examination with minimum of CGPA of 5.0. Likewise, a candidate shall not be admitted in seventh or higher semester classes unless he/she has fully passed first and second year examinations with minimum CGPA of 5.0.
- 4.6 If a candidate has passed all the subjects of an applicable year but has failed to score a minimum CGPA of 5.0 as per the requirement of clause 4.2 and 4.5 above, such a candidate shall be permitted to improve requisite grade point by reappearing in maximum of three theory/practical subjects, in the ensuing examination (theory and practical of a subject shall be considered as two separate subjects.). In the selected subject/s the Candidate may reappear either in end semester examination/ mid semester examination or in both.



- 4.7 Other than the provision of clause 4.6 above, a candidate shall not be permitted to reappear in any examination for improvement of division/marks.

5.0 AWARD OF CREDITS AND GRADES

- 5.1 Each subject, along with its weightage in terms of units and equivalent credits, shall be recommended by the concerned Board of Studies and shall be approved by the standing committee of the Academic Council and the Executive Council. Only approved courses can be offered during any semester.
- 5.2 A student shall be continuously evaluated for his/her academic performance in a subject through tutorial work, practicals/labwork, assignments, mid-semester tests, field work/ seminar (if required), quizzes, regularity and end-semester examination, as proposed by respective Board of Studies and approved by the standing committee of the Academic Council and the Executive Council of the University.
- 5.3 The distribution of weightage/marks for each component shall be decided by the respective Board of Studies and approved by the standing committee of the Academic Council and the Executive Council of the University subject to such stipulation as given under:

(a) Theory Block

i	Quizzes, assignments, tutorials, and regularity	: 10%
ii	Mid - semester test	: 20%
iii	End - semester examination	: 70%

Total	:100%
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(b) Practical Block

i	Lab work, field work/seminar, quizzes, assignments and regularity	: 40%
ii	End semester examination	: 60%

Total	:100%
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- 5.4 Industrial training and project work shall be treated as practical subjects.



- 5.5 In practical block, Board of Studies may keep certain subjects, without end semester examination, in such subjects; evaluation shall be based on field work/seminar, quizzes, assignments/report and regularity.
- 5.6 For each theory subject, the institute shall be required to conduct at least two mid semester tests.
- 5.7 Each student, registered for a course, shall be awarded grade on the basis of his/her performance. The grades to be used and their numerical equivalents are as under:

Choice Based Grading System

Grade	% Marks range (based on absolute marks system)	Grade Point	Description of performance
	91-100	10	Outstanding
	81-90	9	Excellent
	71-80	8	Very Good
	61-70	7	Good
C	51-60	6	Average
C	41-50	5	Satisfactory
D	31-40	4	Marginal
	30 & below	0	Fail
I		0	Incomplete
			Withdrawal

- 5.8 The Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA) shall be calculated as under: -

$$SGPA = \frac{\sum_{i=1}^n c_i p_i}{\sum_{i=1}^n c_i}$$

Where C_i is the number of Credits assigned for the i subject of a Semester, p_i is the grade point earned in that i^{th} subject, where $i = 1, 2, \dots, n$, n is the number of subjects in that semester for which SGPA is to be calculated.

$$CGPA = \frac{\sum_{j=1}^m SG_j NC_j}{\sum_{j=1}^m NC_j}$$

here NC_j is the number of total Credits assigned for the J^{th} semester, SG_j is the SGPA earned in the J^{th} semester, where $j = 1, 2, \dots, m$, m is the number of semesters till which CGPA is being calculated.



Credits earned through MOOCS shall not be included in SGPA/CGPA calculations.

- 5.9 The grade sheet at the end of each semester shall include SGPA of that semester and CGPA of all the semesters for which candidate has appeared in the examinations and the results of which have been declared. The final examination grade sheet at the end of final semester examination of the course shall also indicate CGPA, equivalent percentage marks and the division awarded, according to the rule as given in clause 7.0 of this ordinance.
- 5.10 The grade sheet of the eighth semester shall only be issued after the candidate has passed all the semesters of the course.

6.0 CONDONATION OF DEFICIENCY

- 6.1 Deficiency up to five marks can be condoned to the best of the advantage of the student for passing the examinations. The deficiency can be condoned in maximum of two subjects (theory and practical of the same subject shall be considered as two separate subjects, for the purpose of condoning the deficiency).
- 6.2 A deficiency of 0.01 in CGPA can be condoned for a candidate who have secured minimum passing grades in all the theory and practical subjects but have failed to score minimum requirement of 5.0 CGPA as per clause 4.2/4.5 of this ordinance.
- 6.3 On behalf of the Vice-Chancellor a grace of 0.01 in CGPA will be granted to a candidate, who at the end of the course is missing distinction/first division by 0.01 CGPA. However, this benefit shall not be granted to a candidate who have already availed the advantage/s under clause 6. 1 and/or 6.2

7.0 AWARD OF DIVISION

- 7.1 Division shall be awarded only after successful completion of the course, on the basis of integrated performance of the candidate in all the four years as per following details:

CGPA Score	Divisions
CGPA <7.5	First Division with Distinction
7.5 > CGPA < 6.5	First Division
6.5 > CGPA <25.0	Second Division

- 7.2 The conversion from grade to an equivalent percentage shall be according to the following formula:

$$\text{Percentage marks scored} = \text{CGPA obtained} \times 10$$



- 7.3 A candidate who has successfully completed the course as per the provisions of this ordinance and has earned through MOOCS, 20 credits more than the minimum credits prescribed by the respective board of studies (of that programme/course) for the award of Degree, as per the provision of clause 3.4 of this ordinance, shall be awarded B. Tech. Degree with Honours or additional Minor Engineering, in the same programme.

8.0 DURATION OF COURSE

- 8.1 There shall be at least fifteen weeks of teaching in every semester.
- 8.2 One credit shall be equal to one hour of Theory/Tutorial or two hours of Practical classes per week.
- 8.3 A candidate may provisionally continue to attend next higher year, even if, the result of qualifying year/semester has not been declared. However, subsequently if he/she is not able to pass qualifying semester examination, the candidate cannot claim any right on the basis of his/her provisional admission.
- 8.4 The maximum duration of the course shall be eight years.

9.0 MERIT LIST

- 9.1 Only after the declaration of the result of eighth (final) semester examination, branch wise merit list of first ten candidates in order of merit, in all the four years shall be declared by the University. The merit list shall include the first ten candidates who have secured at least first division, have passed each semester sequentially in first attempt. However, while counting first ten candidates in order of their merit, if more than one candidate has scored same CGPA then all such candidates shall be included in the merit list.

10.0 ATTENDANCE

- 10.1 Candidates appearing as regular students for any semester examination are required to attend minimum of 75 percent of the lectures delivered and the practical classes held separately in each subject of the course of study. Relaxation in attendance will be as per prevailing rules of the university.

11.0 MEDIUM OF INSTRUCTION AND EXAMINATION

- 11.1 The medium of instruction and examination shall normally be English throughout the course of study. A student shall not be allowed to change the medium of examination during the duration of the course.



ORDINANCE-64

**Ordinance on Courses of Study for the award of Bachelor of Vocation (B.Voc.) in Interior Design
(A 3 Year Degree Programme with multiple exit points)**

Under the National Skills Qualifications Framework

(Under Section 28(1)(a), 28(1)(b) and 28(1)(c) of the Central Universities Act, 2009)

Name of the Course : B. Voc. (Interior Design)

Type of the Course : Bachelor of Vocation

Discipline : Interior Design

Duration : Three Years (With multiple exit point)

Eligibility : Entry Level – 12th pass with Min. of 50% in any discipline

Admission : Depending on the number of applications at the time of admission, merit based decision that provides equal opportunity to all will be taken by the admissions committee of the School duly approved by the competent authority of the University. The broad criterion shall be 50% weight to marks of qualifying exam (12th Class) and 50% to aptitude assessment / interview conducted under direction of the admission committee

No of Seats : 30

Affiliation : UGC-NSQF

Bachelor of Vocation (B.Voc.)

1. Course Intent:

India is the world's fastest growing economy which has demographic dividend but according to an estimate 80% of Indian workforce does not possess any marketable skills. The employability rate amongst educated workforce pass out from Universities and colleges is very low. On the other hand, it is estimated that India needs 119 million skilled workforces by 2022. Therefore in order to bridge this gap, Government has taken several measures and launched various schemes of skill development but all these schemes are like a drop in the ocean. Most of the schemes are providing short term skill training and therefore the outcome of the efforts is not matched with the growing and advanced technology based requirements.

Skill development degree course would be a better option to provide skilled workforce as compared to the skill developed through diploma and other schemes of the Government. The proposed degree course B.Voc. in **Interior Design** is a course which will provide required skilled work force to more than one sectors of the economy.

Interior Design is an art and process of designing the interior spaces. Interior Design deals with the optimum utilization of space, physical comfort and visual enrichment. An interior designer can undertake projects that include arranging the basic layout of space within the building as well as projects that require understanding of Technical issues. Interior Design is now a specialized branch of the building industry.

The proposed under-Graduate (UG) course is developed on the basis of Learning Outcome-based Curriculum Framework (LOCF). The LOCF approach is envisioned to provide a focused, outcome-based and industry oriented skill workforce. In this approach teaching-learning process will be more student-centric.

The LOCF approach will be adopted to strengthen student's capability which is required to improve employability of the students. The course contents and hands on different instruments, proposed in program are different from the traditional courses and will make

the students valuable to the industry. The course will not only be useful to provide jobs in industries but will also open new opportunities to catch high profile future jobs or to start one's own business and even generating employment for others.

2. Bachelor of Vocation (B.Voc.) is a degree with multiple entry and exit points:

The course having multiple exit option after every year with employable skill at the end of each module is aiming at following outcome;

Diploma in Interior Design (One Year) Outcome: A person having adequate skills to work as an Assistant to a professional Interior designer

Advance Diploma in Interior Design (Two Year) Outcome: A person having adequate skills to work as 'Technical Assistant' to a Professional Interior designer

B. Voc. (Interior Design) (Three Year) Outcome: A person having skills to work as a Technical Associate to a professional Interior designer or work as a 'multi tasking' technical person in an organization serving interior design trade.

3. Objectives of B.Voc. Interior Design Course:

- a. To create work ready skilled manpower for industry requirements at various levels.
- b. To blend appropriate technical knowledge and skills, personal and professional skills and substantive 'hands-on' and field / site experience required in the trade.
- c. To train the students in representative skills through regular studios and a team of specialized Design Faculty that focuses on freehand drawing, technical drawing and model making.
- d. Graduates would be equipped to begin their own practice or further their education by applying to study in post-graduate programs ranging from furniture, exhibition, product and interaction design to craft & technology, history- theory- criticism, energy efficiency and green design.

4. Salient Features:

- a. Syllabi of various courses are designed by senior academicians and related professionals keeping in the mind the industry requirement and to enhance skill efficiency.
- b. Classes will be held regularly by inviting Senior Academicians and Professionals.
- c. Weightage of skill components in each course is 60% whereas that of the general component is 40%.
- d. Regular Industry visits and expert lectures are proposed for proficient teaching learning process.
- e. Students have to undertake projects for comprehensive learning so that they can be able to build up their own startup/industry plans in future.
- f. Taking projects in each semester is mandatory.
- g. Encouraging students to participate in workshops and value added short term certificate programs. Internship is an essential and indispensable part of each course.

5. SCHEME OF EXAMINATION

1st SEMESTER to 2nd SEMESTER

- 1) B.Voc. INTERIOR DESIGN is a 6 Semester (3 years) Under Graduate program providing knowledge and developing skills in the disciplines of INTERIOR DESIGN.
- 2) This UG program shall have a "Choice Based Credit System" (CBCS) with exit option at annual level.
- 3) Students opting out of the course in first year will be given diploma, students preferring to leave the course after two years will be given advance diploma and students who will successfully complete three years will be awarded a degree.
- 4) The course is designed based on the UGC, B.Voc.
- 5) There will be total **14 Core Theory Courses** of **3 credits** each and **02 Core Theory Courses** of **04 credits** each; **14 Core Practical** of **05 credits** each; **02 set of Elective Courses** of **04 theories** and **04 practical** of **03 credits** each. In addition, there shall be **04**

Skill Enhancement courses of **04 Credits** each which a candidates needs to pass during the tenure of first 04 Semesters.

- 6) There shall be 01 project work of **01 credit** to be undertaken in collaboration with the industrial partner and the parent department
- 7) Each **Core/ Elective** course shall be of 100 Marks and shall have the following examination pattern in each Semester:

Name of Exam	Total Number	Marks	Total Marks
Mid Semester	01	20	20
Internal Assessment	01	Assignment 10+ Viva Voce 5+Attendance 5	20
End Semester	01	60	60

Total marks of each course 20 (Mid- Semester) + 20 (Internal Assessment will be in the form of Short assignment/Chart/Model etc.+Viva Voce + Attendance below 75%-0 marks, 75-80%-1, 80-85%-2, 85-90%-3, 90-95%-4, 95-100%-5 marks) + 60 (End Sem.) = 100

- 8) After the completion of each semester students will be provided special hands on training on their choice of interest area for a period of 21 days. Those students who will opt for graduation programme will be provided a six month internship in the related field of specialization which the student will select in advance during the fifth semester.
- 9) Other instructions and conditions given in the Choice Based Credit System (CBCS) and in the University Ordinance shall also apply in this programme.

BACHELOR OF VOCATION (INTERIOR DESIGN) FIRST SEMESTER EXAMINATION

Paper Code	Paper ID	Paper	L	T/P	S/D	Credits
Theory Papers						
ID-CC-101		Fundamental of Computers	2	1	0	3
ID-CC -102		Communication Skills	2	0	0	2
PRACTICAL/VIVA VOCE / STUDIO						
ID-CC -103		Basic Design Principles	2	0	8	6
ID-CC -104		Art and Interior Graphics – I	1	0	6	4
ID-CC -105		Furniture Design Workshop – I	1	0	6	4



ID-CC -106		History of Interior Furniture - I	1	2	0	3
ID-CC -107		Textile and Accessories	1	2	0	3
ID-CC -108		Site Visits	0	0	0	3
OPEN ELECTIVE - I (Select any one)						
ID-EC- 101		Workshop(Wood & Metal) – I	0	2	0	2
ID-EC -102		Trade Enquiry(Market Survey) - I	0	2	0	2
TOTAL			10	06	20	30

Note - The above subject which will include site visits, market survey, visit to various malls, exhibitions, art galleries & museums etc. The same shall be reflected in the time table.

Training/Interior Design Project -I

The students are advised to undergo two weeks in-house training during winter break and should submit project work for evaluation during the second semester

**BACHELOR OF VOCATION
(INTERIOR DESIGN)**

SECOND SEMESTER EXAMINATION

Paper Code	Paper ID	Paper	L	T/ P	S/D	Credits
THEORY PAPERS						
ID-CC - 201		Environmental Science	3	0	0	3
PRACTICAL/VIVA VOCE / STUDIO						
ID-CC -202		Interior Design-I	1	0	4	3
ID-CC -203		Display Design-I	1	0	4	3
ID-CC -204		Art and Interior Graphics - II	1	0	4	3
ID-CC -205		Furniture Design Workshop - II	1	0	4	3
ID-CC -206		History of Interior Furniture - II	1	2	0	3
ID-CC -207		Interior Materials and Construction Tech. - I	1	0	4	3
ID-CC -208		Interior Project(Minor) - I	2	0	6	5
ID-CC-209		Winter Project - I	0	0	0	2
OPEN ELECTIVE - II (Select any one)						
ID-EC -201		Workshop(Wood & Metal) - II	0	2	0	2
ID-EC -202		Trade Enquiry(Market Survey) - II	0	2	0	2
TOTAL			11	04	26	30

Note -

The above subject will include site visits, market survey, visit to various malls, exhibitions, art galleries & museums etc. The same shall be reflected in the time table.

Training/Interior Design Project -II

The students would be advised to undergo two weeks training during summer break and should submit project work for evaluation during the third semester.

FUNDAMENTAL OF COMPUTERS

Paper Code: ID-CC-101

L	T/P	S/D	Credits
2	1	0	3

Objectives & Pre-requisites:

In present scenario, the advertising agencies, publishing houses and other art studios, computer knowledge and software learning are essential requirement for the graphic designing/art work purposes

Learning Outcomes: The students should be familiarized with the use of computer in applied art.

UNIT-I

BASIC KNOWLEDGE

- Block diagram of computer and its working
- Components of computer
- About operating system
- Booting and installation
- File management
- Printing

UNIT-II

WORD PRECESSING

- Opening and saving documents
- Editing
- Character and paragraph editing

UNIT-III

BASIC POWER POINT PRESENTATION

- Opening and saving a slide
- Inserting picture and movie clip
- Publishing a presentation

UNIT-IV

INTERNET BROADCASTING

- Opening and saving a page
- Creating an account
- Elements of web page

UNIT-IV

BASICS OF INTERNET

- History and development of Internet
- Search engines

- Web servers

UNIT-V

INTERNETBROADCASTING

- Opening and saving a page
- Creating an account
- Elements of webpage

Reference Book(s): -

[R1] Dummies Publication, Fundamentals of Computing

COMMUNICATION SKILLS

Paper Code: ID-CC-102

L	T/P	S/D	Credits
2	0	0	2

Objectives and Pre-requisites:

Students should have studied General English up to secondary level and the subject aims at developing communication skills in writing, speaking as well as body language.

Learning Outcomes:

The students should be able to communicate effectively to his/her superiors as well as juniors at work place in his/her professional field.

UNIT-I

Recognizing and Understanding Communication Styles: What is Communication? Passive Communication, Aggressive Communication, Passive-Aggressive Communication, Assertive Communication, Verbal and Non Verbal Communication, Barriers and Gateways to Communication.

UNIT-II

Listening Skills: Types of Listening (theory /definition), Tips for Effective Listening Academic Listening-lecturing), Listening to Talks and Presentations, Basics of Telephone communication

UNIT III

Writing Skills: Standard Business letter, Report writing, Email drafting and Etiquettes, Preparing Agenda and writing minutes for meetings, Making notes on Business conversations, Effective use of SMS, Case writing and Documentation

UNIT-IV

Soft Skills: Empathy (Understanding of someone else point of view), Intrapersonal skills, Interpersonal skills, Negotiation skills, Cultural Aspects of Communication.

UNIT-V

Group Communication: The Basics of Group Dynamics, Group Interaction and Communication, how to Be Effective in Groups, Handling Miscommunication, Handling Disagreements and Conflicts, Constructive Criticism.

Text Book(s):

- [T1] McKay, M., Davis, M. & Fanning, P. (2008). Messages: The Communication Skills Book, New Harbinger Publications
- [T2] Perkins, P.S., & Brown, L. (2008). The Art and Science of Communication: Tools for effective communication in the workplace, John Wiley and Sons

Reference Book(s):

- [R1] Krizan et al (2010). Effective Business Communication, Cengage Learning. [R2] Scot, O.(2009). Contemporary Business Communication, Biztantra, New Delhi. [R3] Chaney & Martin (2009). Intercultural Business Communication, Pearson Education [R4] Penrose et al (2009). Business Communication for Managers, Cengage Learning.

BASIC DESIGN PRINCIPLES

Paper Code: ID-CC-103

L	T/P	S/D	Credits
2	0	8	6

Objective & Pre-requisite: -

The objective of this course is to make students understand the various aspects such as spatial quality, design vocabulary, design principles, and design process related to the design of interiors. In addition, to develop the aesthetics and abilities in students to design residential and commercial interiors with the help of principles and the elements of design, exercises based on principles and elements of design in the form of charts shall be given to the students.

UNIT-I: Design: Definitions of Design, Arrangement and Composition.

Principles of Composition- Elements and Principles

1. Introduction to various elements of composition, line, direction, shapes, form, color, value, ones and Textures
2. Principles of Composition
3. Repetition, Rhythm, Harmony, Unity, Balance, Dominance, Scale, Proportion, Contrast, practice exercise in composition with reference to above.
4. Designing of Murals, Paintings and Wall Paintings etc.

UNIT-II: Colors

1. Terminology- Hue, Tints and Shade, Value, Intensity, Chroma
2. Theories of Colors, Color Wheels
3. Different types of Color Schemes
4. Color Harmony, Color Contrast in relation to Interior Planning.
5. Psychological aspects of color - Warm and Cool
6. Advancing & Receding colors
7. Color, Pattern and Texture and their relationship in Interiors.
8. Color Planning and guidelines for various Interiors.

UNIT-III: Study of Form, Pattern, Tones and Textures

1. Factors influencing design
2. Functional and Non-functional
3. Shapes and Patterns derive from natural forms.
4. Pattern and Textures in relation to colors
5. Types of Textures and their relationship psychological; impact.
6. Textures in pencils, inks, and color.

UNIT-IV: Aesthetics of Interiors:

1. Role of accessories in Interiors
2. Role of Color, Light, Shades, and shadows in interiors.

UNIT V: Development of concepts in Interior Designing:

1. Preparation of scrap files for accessories, furniture and fittings
2. Simple practice exercise in their development

NOTE:

1. There will be written and drawing examination on the above: Internal assessment will be based upon

the drawings, drawings charts and written assignments.

2. Drawings Charts should be prepared on each topic mentioned above

Text Book(s):

[T1] Interior Design-Ahmed Kasu

[T2] Interior Design Principal and Practice-M. Prataprao

Reference Book(s):

[R1] Basic Design of Anthropometry - Shirish Bapat[R2]

Living Area (Interior Space)

[R3] Time Saver Standard for Interior Design and Space Planning - McGraw Hill New York

[R4] Interior Design and Decoration, Sherrill Winton, Prentice Hall



ART AND INTERIOR GRAPHICS - I

Paper Code:ID-CC-104

L	T/P	S/D	Credits
1	0	6	4

Objective & Pre-requisite

To make students improve their sketching skills & drawing abilities to develop the skills in drawings of different interior schemes and enable the Students to read the drawings & techniques of various methods of drawings.

UNIT-I:

Instructional Objective: Knowledge of instruments, papers, usages of graphic in present and future in Interior Design presentation. Skills in free hand presentation - Pencils, crayons, ink pen, Brush, cut paper, marker, sketch pen etc. in different mediums.

UNIT-II:

Introduction to Free Hand Drawing: Free hand line on paper- horizontal and vertical lines, free hand circles, curves, parallel Etc. free hand lettering in pencil, pen, brush, sketching of various geometrical shapes, Simple objects of interiors furniture and accessories, human forms, animals, interior Views.

UNIT-III: Skills in scaled drawing (Pencil and Pen)

1. Knowledge of use of engineering scales- metric, foot and inches.
2. Reduction and enlargement
3. Physical measurements- exercises of different interior objects
4. Simple drafting of measured objects
5. Knowledge of 2-dimensional and 3-dimensional geometry
6. Exercise on drawing of simple plan, elevation and sections.

UNIT-IV: Projections:

1. Orthographic, Isometric, Axonometric
2. Drafting of furniture objects with projections.

UNIT-V: Measured Lettering

Presentation techniques and standards adopted, pen, pencils and brush.

Understanding of Architectural graphic symbol

Drawing of simple layout for single room - with furniture, accessories dimensions.

NOTE:

1. There will be written and drawing examination on the above: Internal assessment will be based upon the drawings, drawings charts and written assignments.
2. Drawings Charts should be prepared on each topic mentioned above

Text Book(s):

[T1] Drawing - A creative Process, Francis D.K. Ching, John Wiley Sons, New York [T2] Geometrical drawing for art students, 2nd revised edition- I.H. Morris, Orient Longman,

Reference Book(s):

[R1] Architectural Drafting and Design, 4th Edition- Ernest R. Weidhaas, Allyn and Bacon, Boston, 1981. [R2] Building drawing, 3rd Edition- MG Shah, CM Kale, Tata Mcgraw - Hill Publishing, New Delhi.

FURNITURE DESIGN WORKSHOP-I

Paper Code ID-CC-105

L	T/P	S/D	Credits
1	0	6	4

Objective & Pre-requisite:

To familiarize the students about the knowledge of furniture design and various aspects involved in the Design of furniture for various spaces. Objective of this course is to develop competency to design and manufacture furniture in relation to human Forms and use it for different types of interiors.

UNIT-I:

Importance of furniture in relation to Interiors: study of shapes, forms finishes on furniture. Environmental conditions influencing furniture designs: Climatic, social, economic, availability of materials and construction techniques.

UNIT II:

Introduction to various Materials: Wood, metals used in Furniture. Types of wood based products, Methods of care and maintenance, economics of furniture, durability and usability.

UNIT-III:

Techniques of finishing the Surfaces: Wood and Metal Paints, Polishes and varnishes etc: handpainting, brush painting, roller, spray etc.

UNIT-IV:

Study of Anthropometric and ergonomic data in relation to various furniture, Diagrammatic representation through charts.

UNIT V:

EXERCISE

An exercise has to be done where actual measurements have to be taken in relation to various furniture presentations in report form.

NOTE:

1. Furniture to be designed freehand sketch files to be made topic wise.
2. Visit to various furniture workshop exhibitions and showrooms for demonstrations and information from time to time

Text Book(s):

[T1] The Encyclopedia of Furniture, Joseph Aronson, Crown Publishers, New York [T2] Time Saver Standards for Interior Design, Joseph De Chiara, McGraw Hill, New York

Reference Book(s):

[R1] Interior Design, Francis D.K. Ching, John Wiley & Sons, New York [R2] Office Furniture, Susan S. Szenasy, Facts on file Inc, New York

HISTORY OF INTERIOR FURNITURE-I

Paper code : ID-CC- 106

L	T/P	S/D	Credits
1	2	0	3

Objectives & Pre-requisites:

To familiarize the students with the historical interior and furniture in contemporary Objective of this course is to make the aware of historical backgrounds of World Interiors to derive designs and Patterns based on it for contemporary and Modern Interiors.

UNIT-I: Introduction: Pre-Historic:

Indus Valley Civilization: Methods of planning decorative features figures and forms used Cultural features and life styles.

UNIT II:

Classical Style of the East & Far-east: i) Buddhist Style ii) Japanese Style, iii) Chinese Style, iv) Hindu Style, v) Islamic Style – Indo-sarasanic style

UNIT-III:

Indian Handicrafts and Handlooms. Analysis of Hindu, Buddhist, Indo-Islamic interiors with special emphasis on decoration, ornamentation and motifs.

UNIT-IV:

Different Construction technique and materials used in interiors as part of structure/decorations with reference from influence of different factors or architectural forms and decorations such as Doors, Windows, Pillars, Columns, Paneling, Ceiling, Cornice frieze, Dado, Stone inlay and architectural decoration.

UNIT-V:

Different schools of Paintings in India. Influence of British Architectural on Indian Interiors and then gradual change in Architectural features in "**British India**".

NOTE:

1. Preparation of reports and assignments.
2. Visits to Museums, Stores, State Emporium, Manufacturing Workshops, Exhibitions, Trade Fairs, Melas etc.

Text Book(s):

[T1] History of Fine Arts in India and West by Edith Tomary [T2]
History of World Architecture by Sir Banister Flecher

Reference Book(s):

[R1] Indian Architecture by Satish Kumar [R2] Interior
Design by Ahemad Kasu Textile and Accessories

TEXTILE AND ACCESSORIES

Paper code: ID-CC-107

L	T/P	S/D	Credits
1	2	0	3

Objectives & Pre-requisites:

To provide the students' knowledge of the Furnishing & Fittings & its implementation in Interior of any Area. Objective of this course is to make the student aware of different types of furnishings and fittings and use of the same for all type of Interiors, by doing market survey for up to date knowledge of different furnishing & Fittings.

UNIT-I:

Floors-Introduction: Warmth, Safety, Noise, Choice and Planning.

Types of Floors: Hard, Semi- Hard, Soft Floor.

UNIT-II: Floor Coverings:

1. Types of Carpets & Rugs
2. Natural fibers and Man - made fiber
3. Handmade Carpets & Lying of Carpets.
4. Machine made Carpets

UNIT-III:

Types of Windows & Treatments:

1. Types of Curtains & Blinds
2. Fittings & Accessories required for Curtains & Blinds.
3. Valance, Swags, Tails, Tracks, Poles and other hardware materials used in curtains and blinds.

UNIT-IV:

1. Fittings & Fixtures of Bathroom
2. Fittings & Fixtures of Kitchen.

UNIT V:

Sanitary & Hardware:

Hand wash basins, Sinks (glazed or stainless-steel sinks), Bath tubs, Water closets, Urinals, Flushing cisterns etc.

NOTE:

1. Visiting Furnishing & Fitting showrooms for collecting samples or make sketch of the same and prepare a file.
2. Taking one Interior space showing use of different types of Floor, wall finishes, Window Treatment using the above study material.

Text Book(s):

[T1] Interior Design Illustrated, Francis D.K. Ching

[T2] House Book (The complete guide to Home Design) by Terence Conron.

Reference Book(s):

[R1] Window Fashion, Charles TIRANDALL

[R2] A.J. Metric Handbook: Editors Jan, Bilwas & Leslie fair weather.

OPEN ELECTIVE-I

WORKSHOP (WOOD & METAL) - I

Paper Code: ID-EC-101

L	T/P	S/D	Credits
0	2	0	2

Objectives & Pre-requisites:

Objective is to have general skills and knowhow of carpentry and sheet metal works.

Outcomes: - Students gets the knowledge how the raw materials can be finished and used for the different work in furniture etc.

UNIT-I:

1. Introduction to carpentry tools and equipment's.
2. Demonstration of wood working machines

UNIT-II:

1. Exercises on sawing, planing, sanding, chiseling etc.
2. Practice exercise in making important joints in wood are commonly used in furniture.

UNIT-III:

1. Introduction of the tools and equipment's used for sheet metal work
2. Exercises of sheet metal work involving bending, boxing, conduit bending, soldering.

UNIT-IV:

1. Exercises on joints of sheet metal work e.g. seam, hem, grooved, lap, butt, riveting etc.
2. One simple utility article from GI sheet

UNIT V:

1. Latest software used in wood /steel design industry
2. Scope and future of wood and steel design industry

Text Book(s):

[T1] Workshop Practice by Swaran Singh

[T2] Workshop Technology by Gupta

[T3] Workshop Technology by Hazra & Chawdhry

OPEN ELECTIVE-I

TRADE ENQUIRY (MARKET SURVEY) – I

Paper Code: ID-EC-102

L	T/P	S/D	Credits
0	2	0	2

Objectives & Pre-requisites:

To familiarize the students about the various materials and new materials available in the market so that they are able to give the material specifications.

Outcomes: *Students get the knowledge how the raw materials can be finished, joints and used for the different work in furniture etc.*

UNIT-I:

BASIC BUILDING MATERIALS:

- Collections of basic building materials samples such as Bricks, Cement, Aggregates etc.
- Wall finishes -

UNIT-II:

WOOD & WOOD BASED PRODUCTS:

- Types of woods in markets, Rates, Company

UNIT III:

- Laminates, Veneer, Plywood, Block board etc.

UNIT - IV:

UPHOLSTERY MATERIAL AND TAPESTRY:

- Types of fabric used for different types of furniture, and window treatment.
- Rates, Collection of Samples.

UNIT V:

- Collection of Brochures of various company in the market, rates and other relevant information's such as application advantages and disadvantages of Distemper, Paints, Wall papers etc.

NOTE: Students have to prepare a project file along with the samples, rates and other information.

ENVIRONMENTAL SCIENCE

Paper code:ID-CC-201

L	T/ P	S/D	Credi ts
3	0	0	3

Objective: The objective of this course is to make students environment conscious. They will be exposed through the fundamental concepts of environment and ecosystem so that they can appreciate the importance of individual and collective efforts to preserve and protect our environment. This course must raise various questions in student's mind that how our environment is inter dependent on various factors and how human being must care for their natural surroundings.

UNIT-I

Environmental Studies: Ecosystems, Bio-diversity and its Conservation

(i) The Multidisciplinary Nature of Environmental Studies

Definition, scope and importance of Environmental Studies, Biotic and a biotic component of environment, need for environmental awareness.

(ii) Ecosystems

Concept of an ecosystem, structure and function of an ecosystem, producers, consumers and decomposers, energy flow in the ecosystem, ecological succession, food chains, food webs and ecological pyramids. Introduction, types, characteristic features, structures and function of the following ecosystem:

- (a) Forest ecosystem
- (b) Grassland ecosystem
- (c) Desert ecosystem
- (d) Aquatic ecosystem (ponds, streams, lakes, rivers, oceans, estuaries).

(iii) Bio-diversity and its Conservation

Introduction to biodiversity - definition: genetic, species and ecosystem diversity, Bio-geographical classification of India, Value of biodiversity: Consumptive use, productive use, social, ethical, aesthetic and option values, Biodiversity at global, national and local levels, India as a mega-diversity nation, Hot-spots of biodiversity, Threats to biodiversity: Habitat loss, Poaching of wildlife, man-wildlife conflicts, rare endangered and threatened species (RET) endemic species of India, method of biodiversity conservation: *In-situ* and *ex-situ* conservation.

UNIT-II

Natural Resources: problems and prospects

Renewable and Non-renewable Natural Resources; Concept and definition of Natural Resources and need for their management

Forest resources: Use and over-exploitation, deforestation, case studies, timber extraction, mining, dams and their effects on forests and tribal people.

Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems. Water conservation, rain water harvesting, watershed management.

Mineral resources: Uses are exploitation, environmental effects of extracting and using mineral resources, case studies.

Food resources: World food problems, changes cause by agriculture and over-grazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity, case studies.

Energy resources: Growing energy needs, renewable and non-renewable energy sources, use of alternate energy sources. Urban problems related to energy, case studies.

Land resources: Land as a resource, land degradation, man induced landslides, soil erosion and desertification.

UNIT-III

Environmental Chemistry and Pollution Control

(i) Chemistry of Environment

(a) Green Technology: Principles of Green technology, Zero Waste Technology, Green Chemistry & Its basic principles, Atom Economy, Green Methodologies, clean development mechanisms (CDM), concept of environmental impact assessment,

(b) Eco-Friendly polymers: Environmental degradation of polymers, Biodegradable, Photo-biodegradable polymers, Hydrolysis & Hydrobiodegradable, Biopolymers & Bioplastics: polylactic acid, polyhydroxybutyrate, polycaprolactone.. Concept of bioremediation.

(ii) Environmental Pollution

Definition, types, causes, effects and control measures of (a) Air pollution, (b) Water pollution,

(c) Soil pollution, (d) Marine pollution, (e) Noise pollution, (f) Thermal pollution, (g) Nuclear hazards. Pollution case studies. Solid waste and its management: causes, effects and control measures of urban and industrial waste.

Chemical toxicology - Terms related to toxicity, impact of chemicals (Hg, As, Cd, Cr, Pb) on environment.

UNIT-IV

Disaster Management, Social Issues, Human Population and the Environment

(i) Disaster Management

Disaster management: floods, earthquake, cyclone and land-slides, nuclear accidents and holocaust, *case studies*.

(ii) Social Issues, Human Population and the Environment

Sustainable development, Climate change, global warming, acid rain, ozone layer depletion, Environmental ethics: Issues and possible solutions, Consumerism and waste products, Wasteland reclamation. Population growth, problems of urbanization, Environment Protection Act, 1986; Air (Prevention and Control of Pollution) Act, 1981; Water (Prevention and Control of Pollution) Act, 1974; Wildlife Protection Act, 1972; Forest Conservation Act, 1980; Environmental management, system standards-ISO 14000 series.

UNIT-V

Environment and Human Health

Common diseases: (Airborne diseases (Tuberculosis, Influenza), water, (cholera, hepatitis), Food borne (Salmonellosis, Botulism) and Vector (Malaria, Dengue), HIV/AIDS: symptoms, causes, effects and control measures. Organ toxicity (Hepatotoxicity, Nephrotoxicity, Pulmonary toxicity, Neurotoxicity). Drug addiction: Causes, symptoms, prevention and rehabilitation in India.

Text Book(s):

[T1] E. Barucha, Textbook of Environmental Studies for Undergraduate Courses, Universities Press (India) Pvt. Ltd., 2005.

[T2] S. Chawla, A Textbook of Environmental Studies, McGraw Hill Education Private Limited, 2012

References Books:

[R1] G. T. Miller, Environmental Science, Thomas Learning, 2012

[R2] W. Cunningham and M. A. Cunningham, Principles of Environment Science: Enquiry and Applications, Tata McGraw Hill Publication, N. Delhi, 2003. [R3] R. Rajagopalan, Environmental Studies: From Crisis to Cure, 2nd Edition, Oxford University Press, 2011.

[R4] A.K. De, Environmental Chemistry, New Age Int. Publ. 2012,

[R5] A. Kaushik and C.P. Kaushik, Perspectives in Environment Studies, 4th Edition, New Age International Publishers, 2013

[R6] Environmental Engineering by Gerard Kiely, Tata McGraw-Hill Publishing Company Ltd. New Delhi, 2010.

INTERIOR DESIGN –I

Paper code: ID-CC-202

L	T/ P	S/D	Credits
1	0	4	3

Objectives & Pre-requisites:

To introduce the basic Designing for Residential Interiors and to develop Skills required for the same. To teach proper utilization of space by understanding the client's requirements with the help of principles and Elements of Design the students are required to prepare layout plans of single room suggesting colour scheme Material specifications with plan, elevations of perspective in colour.

UNIT-I:

Planning the flow of space, negative & positive space, space requirement, usage with furniture and functional Spaces. Space distribution and factors influencing it.

Drawing required, plan and elevation of single rooms, Simple Layout plans of different rooms for different Functions. Placement of Furniture, making furniture layout, plans and elevations of rooms of different functions.

UNIT-II

Bedrooms & Living Rooms: Concepts in bedroom & Living room interiors- various layout of these spaces - the use of furniture and accessories to create a good ambience - materials & finishes - lighting, colour & Texture.

Toilets: Anthropometry - various types of sanitary ware and their use - types of layouts - concepts in modern day toilet interiors - with materials & finishes -lighting, Colour, Texture & pattern.

UNIT-III

Kitchens: Work triangle, planning for activity - types of kitchen - Modular Kitchens. Materials Used for counters, shelves, worktops, washing areas.

Lighting & Colour Scheme - natural & artificial light.

UNIT-IV

Perspective in Blank & White, Colour with simple rendering visit for case study of existing interiors, Record file of these to be prepared in freehand drawing.

UNIT-V

Research Strategies: Interior Design has shifted from focusing on home decoration within the family in the past fifty years. Research Methods for Interior Design provides a vast range of quality and quantity.

Note:

1. There will be written and drawing examination on the above: Internal assessment will be based upon the drawings, drawings charts and written assignments.
2. Drawings Charts should be prepared on each topic mentioned above

Text Book(s):

[T1] Interior Design - Ahmed Kasu

[T2] Interior Design Principal and Practice- M. Prataprao

Reference Book(s):

[R1] Time Saver Standard for Interior Design and Space Planning - McGraw Hill New York [R2] Interior Design and Decoration, Sherrill Winton, Prentice Hall [R3] Designs for 20th century Interiors - Fiona Leolie, VH Publication, London 2000 [R4] Interior Design: The New Freedom, Barbara LeC Diamondstein, Rizzoli International Publications, New York, 1982.

[R5] Interior Color by Design, Jonathan Poore, Rockport Publishers, 1994

[R6] Worldwide Interiors - International Federation of Interior Architects & Designers, Rikuyo - Sha, Japan, 1987.

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DISPLAY DESIGN-I

Paper code: ID-CC-203

L	T/ P	S/D	Credits
1	0	4	3

Objectives & Pre-requisites:

To provide the students' knowledge of the Display of Commercial Interiors & its implementation
Objective of this course is to make the student learn the scope of Display and Sales Promotion with the help of Different types of Displays used in Commercial areas.

UNIT-I:

Introduction: Display of various products/commodities, display and their scopes for sale, promotion at shop, City, State, National and International levels.

Classification: Window, Wall, Island, Counter, Atrium, Mobile, Kiosk, Store & Exhibition Display.

UNIT-II

Conceptualization: Thematic Message, Seasonal Festival, State & Country oriented Display.

UNIT-III Display Props and Display Media:

Use of Props, Publicity Media, Newspaper Ads, T.V., Hoardings, Posters, Banners, Billboards, Flyer, Panels, Logo, Trademarks.

UNIT-IV Importance of Devices:

Lettering, Colour, Lights and different types of Lights to be used for Display, Mechanical Devices used.

Devices used for Display: Panels, Stands, Blocks.

UNIT-V

Photography Interior photography is the art of taking photos of spaces such as rooms, furniture, etc. Interior photography is essential for many fields, such as real estate and architectural photography.

Note: Lectures, Demonstrations & visits to various shopping Area, Departmental Stores, Malls, Exhibitions etc.

Presentation: Sketch Files, Drawings with Colors to give clear concept of Theme of Different types of Display.

Text Book(s):

[T1] Designs for 20th century Interiors - Fiona Leolie, VH Publications, London.

[T2] Worldwide Interiors - International Federation of Interior Architects & Designers, Rikuyo-Sha, Japan, 1987

Reference Book(s):

[R1] Interior Design: the new Freedom, Barvaralec Diamonstein, Rizzoli International Publications, New York, 1982

[R2] Interior Colour by Design, Jonathan Poore, Rockport Publishers, 1992.

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ART AND INTERIOR GRAPHICS –II

Paper code: ID-CC-204

L	T/P	S/D	Credits
1	0	4	3

Objectives & Pre-requisites:

Students should acquire knowledge of the various drawings, which effectively communicate their designs. To train the students in the field of Interior perspective drawing and sciography, presentation skills Techniques for Construction as a tool towards effective Visualization and presentation

UNIT-I

Measured Drawings:

1. Techniques in skilled drafting and perspectives
2. Knowledge of standardized drawings, importance, various architectural symbols and usage in drawing.
3. Drafting of Simple Room layout plan, elevations, and sections with dimensions, showing levels, and specifications writing.

UNIT-II

Drafting of Simple Room layout plan, elevations, and sections with dimensions, showing levels, and specifications writing.

UNIT-III

Axometric views of rooms as per the drafted layout plan, furniture, etc.

1. Perspective
2. Terminology of perspective drafting and drawing viz; planes, vanishing point, cone of vision, one point, two point, birds eye view, worm's view etc.
3. Drafting perspective views - one point, two point perspectives with colors and pencil rendering, knowledge of tones and textures, color applications and choice of different medium.

UNIT-IV

Sciography: Sciography in plan, elevation and basic sciography use in orthographic projections of simple objects and use of letter set and stencils.

UNIT-V

Orthographic projections: Drawing Orthographic Projections of simple and complex solids based on geometrical constructions, either single or in combinations

Note:

1. There will be written and drawing examination on the above: Internal assessment will be based upon the drawings, drawings charts and written assignments.
2. Drawings Charts should be prepared on each topic mentioned above

Text Book(s):

[T1] Perspective & Sciography by Shankar Mulik, Allied Publishers. [T2]
Engineering Drawing, M.S. Kumar, D.D. Publications, Chennai

**Reference
Book(s):**

[R1] Geometrical drawing for Art Students, I.H. Morris, Orient Longman, Chennai
[R2] Perspective Principles, M.G. Shah & K.M. Kale, Asia Publications, Mumbai.

FURNITURE DESIGN WORKSHOP-II

Paper code: ID-CC-205

L	T/ P	S/D	Credits
1	0	4	3

Objectives & Pre-requisites:

To familiarize the students about the different types of furniture and use in today's time. To teach furniture design by applying joinery for furniture manufacturing in relation to specific interiors. Designing of different furniture pieces based on the different types of Interiors

UNIT-I:

Introduction of various materials used in furniture

1. Wood, metal and glass
2. Wood and wood based products: uses, availability and cost of soft and hard woods, defects, properties and structures of different woods. Different types of wood based products available e.g. plywood, board, particle board, veneer etc.

UNIT-II

Metals: Mild steel, aluminum, brass, copper, wrought iron, GI springs steel etc. sections and raw materials available; market study and rates of the same.

Glass: Sizes, Thickness, Treatments, Rates and available of sheet properties, plates, wired, laminated colored insulated, heat Resistant and block glass.

UNIT-III

Analysis of existing furniture with full size measured drawings like plan, elevation, sections and details. To understand the structure properly

1. Joinery as applied to furniture
2. Redesigning of existing furniture keeping in mind the market and user's need

UNIT-IV

Upholstery Materials: Types of foams, springs and other materials used for upholstering - Techniques of upholstering and various hardware used for the same.

UNIT-V

Finishing materials such as sand paper, water paper, emery paper, etc. Polishing, Lacquering & Varnishing materials

NOTE:

1. Free hand sketches of furniture
2. Report to be made of above items based on market study and factory visits for the same to



understand the actual process.

Text Book(s):

[T1] Butter Harry, "Do It Yourself Furniture".

[T2] Marlo Dal Febro, "How to Build Modern Furniture".

Reference Book(s):

[R1] Joseph Aronson, "The Encyclopedia of Furniture", Crown Publishers, New York

[R2] Joseph De Chiara, "Time Saver Standards for Interior Design", McGraw Hill, New York

HISTORY OF INTERIOR FURNITURE-II

Paper code:ID-CC-206

L	T/ P	S/D	Credit s
1	2	0	3

Objectives & Pre-requisites:

To familiarize the students about the historical interior and furniture and use in today's time. The aim of this subject is to develop a sense of appreciation for History of Interior with Furniture in relation to Interior Planning.

UNIT-I

Occidental Interiors:

1. Introduction to the periods of History, Cultural, Architectural & Interior Planning from ancient to middle ages, Renaissance, Modern Periods.
2. Concepts and Architectural characteristic of Ancient, Medieval, renaissance period explaining different factors.
3. Influence ornamentations- Motifs, Furniture, Doors, Windows, Pillars, Columns, Paneling, Ceiling, Cornices, Frieze, stone or wood inlay etc.

UNIT-II

Study of period furniture and motifs:

1. European Furniture - (Renaissance onwards)
2. Italian, Spanish, French
3. Renaissance and its influence on ornamentation and furniture.
4. English, 15-18 Century (from Tudor to Victorian) style of furniture & decoration.
5. American Colonial period furniture and Ornamentation
6. 19th and 20th Century - French, English and American Styles.

UNIT-III:

1. English, 15-18 Century (from Tudor to Victorian) style of furniture & decoration.
2. American Colonial period furniture and Ornamentation
3. 19th and 20th Century - French, English and American Styles.

UNIT-IV: ORIENTAL

Difference in basic shapes, form & motifs of East and West.

Wood & other materials used, familiarity with methods of GUILDING, EMBOSSED, MOULDING, STENCILING

Demonstration of marquetry, Brass, Ivory, Mother of Pearl, Inlay, Wood etc.

UNIT-V:

Historical development of Artifact, object or a system of objects. History of paintings (in brief) of different schools, from renaissance onwards in India and abroad (Italy, France and England) with emphasis on Indian Art, from and handicrafts.

NOTE:

1. Study of market trends and styles and visits to Furniture factory & showroom.
2. Project on Design & Detailing of Single residential or Commercial Furniture wood, cane and metal.

Text Book(s):

- [T1] English Furniture Style (1500 - 18) by Ralph E
- [T2] Interior Design, Francis D. K. Ching, John Wiley & Sons, New York

Reference Book(s):

- [R1] The Encyclopedia of Furniture, Joseph Aronson, Crown Publishers, New York
- [R2] Time Saver Standards for Interior Design, Joseph De Chiara, McGraw Hill, New York

INTERIOR MATERIAL CONSTRUCTION TECHNIQUE-I

Paper code: ID-CC-207

L	T/ P	S/D	Credits
1	0	4	3

Objectives & Pre-requisites:

To familiarize the students of Interior Design on material and construction methodology. Designing of Steel & R.C.C. Structure. Understanding the basic components of the buildings envelope for small buildings.

UNIT-I

1. Basic Building Components: Foundation till super structure
2. Stone and Brick Masonary: Types of Bonds
3. Different types of Stone Masonary

UNIT-II:

Openings:

1. Types of Arches & Lintels
2. Types of Doors & Windows
3. Types of Roofs.

UNIT III:

Introduction to Structure:

1. RCC, Structural Elements
2. RCC Beams
3. Reinforced Beams
4. Slabs
5. Columns

UNIT IV:

1. Steel structure elements - Comparison of steel and RCC structure in building
2. Introduction to seismic zone considerations on high rise structures.
3. Introduction to design implications to disasters.

UNITV:

1. Ingredients of concrete, properties of concrete, various finishes types of concrete such as Lime concrete, cement concrete, etc., their uses and applications in various finishes, etc.
2. Properties of various types of cement and their application.

NOTE:

1. There will be written and drawing examination for Unit I & Unit II, and Unit III & IV will be theory based: Internal assessment will be based upon the drawings, drawings sheets and written assignments.
2. Drawings sheets should be prepared on each topic mentioned above

Text Book(s):

[T1] Sushil Kumar, "Building Construction"

[T2] S.C.Rangwala, "Engineering Materials", Charotar Publishing, Anand

Reference Book(s):

[R1] W.B. Meckay, "Building Construction", Vol. 1, 2, 3, 4

[R2] Francis D. K. Ching, "Building Construction Illustrated", VNR, 1975.

OPEN ELECTIVE -II

WORKSHOP (WOOD & METAL) - II

Paper Code: ID-EC-201

L	T/P	S/D	Credits
0	2	0	2

Objectives & Pre-requisites: Objective is to have general skills and knowhow of painting, polishing and metal works.

Outcomes: Students gets the knowledge how the raw materials can be finished, joints and used for the different work in furniture etc.

UNIT-I:

Painting and Polishing Workshop

1. Introduction to painting materials for wood and metals
2. Exercises on the following:
 - Painting on metal and wood
 - Polishing on wall surfaces
 - Polishing of all mediums on woods

UNIT-II:

1. Preparation of various surfaces of furniture's for lacquer, matt, and melamine finish.
2. Polishing of glass and finishing treatment of plastered surfaces.

UNIT-III:

Metal Workshop

1. Introduction of the tools and equipment's used in fitting and welding shop
2. Simple exercises on filing, drilling and tapping

UNIT-IV:

1. Exercises of joining with the help of electric and welding and gas welding for making simple joints in metal industry.
2. Simple exercises on glass fixing.

UNIT-V:

1. Demonstration – plumbing tools, symbols and joints
Joining GI pipes by threading, PVC pipes by gluing and cementing.

Text Book(s):

- [T1] Workshop Practice by Swaran Singh
[T2] Workshop Technology by Gupta
[T3] Workshop Technology by Hazra & Chowdhary

OPEN ELECTIVE -II

TRADE ENQUIRY (MARKET SURVEY) - II

Paper Code: ID-EC-202

L	T/P	S/D	Credits
0	2	0	2

Objectives & Pre-requisites: To familiarize the students about the various materials and new materials available in the market so that they are able to give the material specifications.

Outcomes: Students get the knowledge how the raw materials can be finished, joints and used for the different work in furniture etc.

UNIT-I: Floor Finishes

- Types of Floor- Hard floor, Soft Floor finishing materials, rates.

UNIT-II:

Wood & Wood based Products:

- Types of woods in markets, Rates & collection of samples
- Laminates, Veneer, Plywood, Board etc.

UNIT - III:

Upholstery Material and Tapestry:

- Types of fabric used for different types of furniture, and window treatment.
- Rates, Collection of Samples.

UNIT - IV:

Electrical Fitting and Fixtures:

- Collection of samples for lights fittings, Fans, Air Conditioning, switch boards.
- Rates and the company dealing.

UNIT-V:

Tender, contract, Billing, certificates of payments, clerk of works. Quantity survey, Rate analysis

Note: - Student have to prepare a project file along with the samples, rates other information's

3rd SEMESTER to 4th SEMESTER**BACHELOR OF VOCATION
(INTERIOR DESIGN)
THIRD SEMESTER EXAMINATION**

Paper Code	Paper ID	Paper	L	T/P	S/D	Credits
THEORY PAPERS						
ID-CC-301		Business Management	3	0	0	3
PRACTICAL / VIVA VOCE / STUDIO						
ID-CC-302		Interior Design & Landscape - I	1	0	4	3
ID-CC-303		Display Design - II	1	0	4	3
ID-CC-304		Furniture Design Workshop -III	1	0	4	3
ID-CC-305		Interior Services - I	1	0	4	3
ID-CC-306		Interior Materials and Construction Technique –II	1	0	4	3
ID-CC-307		AutoCAD – I	1	0	4	3
ID-CC-308		Interior Project - II	0	1	8	5
ID-CC-309		Site Visits	0	0	0	2
ID-CC-310		Summer Project - I	0	0	0	2
TOTAL			09	01	32	30

NOTE: The above subjects require site visits, market survey, visit to various malls, exhibitions, art galleries & museums, etc.

Training/ Interior Design Project-III The students are required to undergo two weeks training during winter break and should submit project work for evaluation immediately thereafter for the declaration of result.



**BACHELOR OF VOCATION
(INTERIOR DESIGN)
FOURTH SEMESTER EXAMINATION**

Paper Code	Paper ID	Paper	L	T/P	S/D	Credits
THEORY PAPERS						
ID-CC-401		Life Skills	3	0	0	3
PRACTICAL / VIVA VOCE / STUDIO						
ID-CC-402		Interior Design & Landscape - II	1	0	4	3
ID-CC-403		Display Design - III	1	0	4	3
ID-CC-404		Furniture Design Workshop -IV	1	0	4	3
ID-CC-405		Interior Services - II	1	0	4	3
ID-CC-406		Interior Materials and Construction Technique –III	1	0	4	3
ID-CC-407		AutoCAD – II	1	0	4	3
ID-CC-408		Interior Project - III	0	1	8	5
ID-CC-409		Site Visits	0	0	0	2
ID-CC-410		Winter Project - II	0	0	0	2
TOTAL			09	01	32	30

NOTE: The above subjects require site visits, market survey, visit to various malls, exhibitions, art galleries & museums, etc.

Training/ Interior Design Project-IV The students are required to undergo two weeks training during winter break and should submit project work for evaluation immediately thereafter for the declaration of result.



BUSINESS MANAGEMENT

Paper Code:ID-CC-301

L	T/P	S/D	Credits
3	0	0	3

Objectives: This course is designed to expose the students to fundamental concepts of management, its processes and behavioural dynamics in organizations.

Learning Outcomes: The students will be in a position to understand the concepts of Management and apply the same at the time of managing the organization in globally competitive world

UNIT-I

Introduction to Management: Meaning and Nature of Management, Basic Concepts of Management Definition, Need and scope.

UNIT-II

Different schools of management - Behavioural, Scientific, Systems, Contingency, Management by Objectives, Management and Society: The External Environment, Social Responsibility, and Ethics: An Overview.

UNIT-III

Management theories - F.W. Taylor - Henry Fayol - Elton Mayo, Evolution of Management (in India and Abroad). Levels of management, Process of Management: Managerial Skills, Tasks and Responsibilities of a Professional Manager.

UNIT-IV

Planning-Process and Techniques, Organizing- Definition, Process and Organizational Structure, Nature, Importance, principles, centralization - de centralization Organization. structures - Line & staff, functional, product, matrix, geographical, customer, virtual, boundary less. Staffing - Definition, Nature, Importance & steps.

UNIT-V

Directing-Principles and Process, Controlling-Process and Techniques, Problem Solving and Decision Making - Definition, Nature, Importance, steps; Controlling - Techniques & Steps, Leading - Nature and scope. Contemporary issues in Management.

Text Books:

- [T1] Stoner, R. James A.F., Edward Freeman Daniel R Gilbert Jr., Management 6th Ed. Prentice-Hall of India
[T2] Essentials of management by Koontz H and Weirich, Tata, McGraw-Hill Education, Delhi.

Reference Books:

- [R1] Principles & Practice Of Management (Paper Back), Author: T.N.Chhabra, Publisher: Dhanpat Rai & Co (P) Ltd, Delhi
[R2] Management by James A.F.Stoner, Philip.W.Yetton, Jane F.Craig, Kim D.Johnston, Second Edition. Prentice Hall of India, Delhi.



INTERIOR DESIGN & LANDSCAPE – I

Paper Code: ID-CC-302

L	T/P	S/D	Credits
1	0	4	3

Objective & Pre-requisite: Use of Interior and Exterior Spaces awareness of Different types of plants - Indoor & Outdoor Plants. Designing of different Interior spaces.

UNIT-I

Design small apartment like 2 BHK/ 3 BHK with complete furniture Layout, Drawing - Plan, Elevation 3D view/Perspective View, Furniture detailing, using Colour schemes, Accessories, and Electrical Layout Plan etc.

UNIT-II

Design commercial space like small store or Petrol Pumps convince store complete furniture Layout, Drawing - Plan, Elevation 3D view/Perspective View, Furniture detailing, using Colour schemes, Accessories and Electrical layout.

UNIT-III

FOR LAND ESCAPE

Relation between Outdoor and Indoor Spaces.

How to relate interior & Exterior Spaces?

Type of land escape - Hard and soft landscape & its use in Interiors.

Use of materials - Constriction, ground modelling, ground cover, laying of grass, stone path ways.

UNIT-IV

Potted plants, hanging baskets, shrubs, creepers, Hedges Fences, Tree Guards, Trills, water bodies, Fountain, Sculpture, Artificial pools and different types of lights used in Exteriors and their uses.

UNIT-V

Project on land escape Balcony area/Private gardens with layout, and a Colored perspective

Note: Design to be made by students under the guidance of faculty.

Text Books:

[T1] Indoor Plants by Xania Field

[T2] World Architecture (With Introduction to landscape Architecture) by G.K. Hiraskar

[T3] World of house plants by JOHANS

[T4] Indoor garden by HUNTER

[T5] Indoor gardening by READER DIGEST ASSOCIATION (LONDON)

[T6] Japanese homes and gardens by Marcus G. Sims

Reference Book(s):

[R1] Interior Decoration by Satish Chandra Agarwala

DISPLAY DESIGN - II

Paper Code: ID-CC-303

L	T/P	S/D	Credits
1	0	4	3

Objective & Pre -requisite: To make schemes for different types of displays

UNIT-I

Window Display for sales promotion of different types of products/ commodities

Use of different devices like blocks, stands, panels

Use of different types of lights and colours

For shops like Gift Gallery, Leather Goods like Bags, Shoes, Pottery and Kitchenware, Apparel for kids, ladies and gents (Branded Stores)

UNIT-II

Planning designing and 3D views in colour using props for expressing 'Theme' or 'Message' in display

UNIT-III

Use of lettering and designing of logo and trade mark as an exercise on paper

UNIT-IV

COUNTER DISPLAYS

Types and use of counters in store display

Importance of Counter Display

Planning and designing the counter display for Jewellery, spectacles/ shades, cosmetic goods and precious goods like Ivory items, precious stones, and sandal wood items using theme for display.

All of the above to be carried out in lecture studio class

UNIT-V

Visits to various stores, malls and exhibitions and compare the rates and designs

Note: Demonstration and visit to various malls, stores, exhibition and workshops.

Practical: Sketching existing display and making sketch files on various topics.



FURNITURE DESIGN WORKSHOP – III

Paper Code: ID-CC-304

L	T/P	S/D	Credits
1	0	4	3

Objective & Pre-requisite: To familiarize the student about the knowledge of furniture design and various aspects of furniture for different spaces. Objective of this course is to develop competency to design and manufacture furniture in relation to human forms and use it for different types of Interiors

UNIT-I

Introduction to Furniture Period. Oriental furniture Period, Period Furniture - Oriental furniture, Historic & Period Furniture, History of furniture is Ancient World - Ancient Egypt, Greece, Rome, and Byzantine

UNIT-II

History of Furniture in Middle Age early mediaeval 500-1000, Romomanesque, Gothic - 1200-1300, Furniture Development in Italy - Pre-Renaissance (1100-140), Quattrocento (1400-1500), Cinquecento (1500-1600), Baroque (1560-1700), Classical Revival (1750-1800), Italian Directoire (1795-1799), Italian Empire (1800-1815)

Furniture Development in France -Early Renaissance (1515-1547), High Renaissance (1560-1610), Baroque (1643-1745), Rococo (1725-1774)

UNIT-III

Neo-Classicism (1774-1793), Directorie (1795-1799), Empire (1800-1815), Art Nouvea (1870-1909), French provincial,

Furniture Development in England Tudor/ Elizabethan, Restoration (1600-1685), William & Mary (1689-1702), Queer Anne (1702-1714), Early George (1714-1760)

UNIT-IV

Age of the great Designers (1725-1800), Thomas Chippendale (1718-1779), Robert Adam (1728-1792), George Happlewhite (1786), Thomas Sheraton (1751-1806)

UNIT-V

History of the 20th Century Furniture - Furniture Development in Germany, France, England, Italy, Scandinavia & USA

Note:

1. There will be written and drawing examination on the above: Internal assessment will be based upon the drawings, drawings sheets and written assignments.
2. Drawing sheets should be prepared on each topic mentioned above

Text Book(s):

[T1] Interior Design - Ahmed Kasu

[T2] World Furniture Edited by Helena Hayward

Reference Book

R1] English Furniture Styles (1500 - 18) by Ralph ETime Saver Standard for Interior Design and Space Planning - Mcgraw Hill New York

[R2] Antique Furniture by David P. Lindquist and Carlone C. Warren

INTERIOR SERVICES – I

Paper Code: ID-CC-305

L	T/P	S/D	Credits
1	0	4	3

Objective & Pre-requisite: This course aims at imparting knowledge in the area of interior services and their application like Water supply, lighting etc.

UNIT-I

Water Supply

- (a) Hot and cold water supply system
- (b) Types and sizes of pipes

UNIT-II

Water supply fitting to -

- (i) Bathroom (ii) Water closet (iii) Sink (iv) Bath tub (v) Wash Basin (vi) Bidets (vii) Showers (viii) Urinals

UNIT-III

Drainage

- (a) Principles of Drainage
- (b) Materials for drains
- (c) Traps - types, sizes, function and usage
- (d) Pipes sizes and shapes Sanitary fixtures - WC, washbasins, bath tubs, sinks (Sizes and types)
- (e) Septic Tank

Note: Simple exercises on preparation of layout plans for toilet, kitchen; both public and residential

UNIT-IV

Lighting

- (a) Different systems of lighting - (i) natural (ii) artificial
- (b) Units for measuring light

UNIT-V

Electrical layout

- (a) Planning - using electrical symbols
- (b) Selection of fitting for different work areas as - drawing room, bedroom, study room, bath, kitchen, etc.
- (c) Public places like offices, Malls, Hospitals

Note: Include basic knowledge of material finishes and maintenance

Text Book(s):

- [T1] Building Construction by B.C. Punmia
- [T2] Building Construction by Sushil Kumar
- [T3] Materials by RANGWALA
- [T4] Sanitary engineering by RS DESHPANDEY
- [T5] Water supply and sanitation by CHARANJIT SHAH
- [T6] A-Z of practical building constructions & its management by SANDEEP MANTRI
- [T7] Electrical engineering by O.P. SHUKLA

[T8] Water supply and sanitation engineering by P.K. UPADHYAY

Reference Book(s):

[R1] Sanitary Engineering by R.S. Deshpandey

[R2] Water supply & Drainage Gurcharan Singh

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INTERIOR MATERIALS AND CONSTRUCTION TECHNIQUES – II

Paper Code: ID-CC-306

L	T/P	S/D	Credits
1	0	4	3

Objective & Pre-requisite: Subject is used for understanding the structure to support Renovation/ Refurnishing / Designing of any Interior

UNIT-I:

- (a) Definition of Renovation/ Refurnishing
- (b) Difference between Renovation/ Refurnishing

UNIT-II

FLOORS

- (a) Ground and upper floor
- (b) Different types of flooring materials, laying details

UNIT-III

ROOFS

- (a) Pitched - different types,
- (b) Trusses - types and parts in sketches

UNIT-IV

DOORS (WITH MECHANICAL DEVICES)

- (a) Aluminium and steel doors
- (b) Types of door closing devices
- (c) Sliding doors
- (d) Sliding and folding doors
- (e) Revolving doors
- (f) Swing doors
- (g) Shop window front

UNIT-V

WINDOWS

- (a) Aluminium and steel windows
- (b) Different types - Bay, Bow, Corner, Dormer, Sky light, Louvered (French),
- (c) Casement, clerestory, Pivoted, Sliding, Ventilators.

Text Book(s):

- [T1] Building Construction by B.C.Punmia
- [T2] Building Construction by Sushil Kumar

Reference Book(s):

- [R1] Building Construction by W.B. McKay

AUTO CAD - I

Paper Code: D-CC-307

L	T/P	S/D	Credits
1	0	4	3

Objective & Pre-requisite: The objective of AutoCAD is to enable students to create 2D and 3D drawing in AutoCAD.

UNIT-I

A look at CAD industry, working of a CAD system
CAD and interior design
Components of CAD system

UNIT II

Introduction to Hardware and Software of CAD
Hardware software overview, CAD hardware, CAD software, CAD user interface
Drawing with a computer. CAD software in the future

UNIT-III

Introduction to AutoCAD
Advantages of CAD
Business applications for CAD
Building Information Modelling, wrapping it up
Interior designing using AutoCAD

UNIT-IV- CAD DRAWINGS

A prototype CAD drawing
Limit setups for drawings
Understanding scale concept and limits in AutoCAD
Drawing tools, modify tools

UNIT-V- COLOURS AND LINE TYPES

Line type, line type scale, line weights
How to create a custom simple line type?
AutoCAD command list

Text Book(s)

[T1] Mastering AutoCAD by George Omura (BPB Publications)

Reference Book(s)

[R1] Joseph A. Fiorello, CAD for interior basics, John Wiley & Sons [R2] Timothy J. Barnes, Electronic CAD frame works, Springer [R3] Schoon Maker, Ebook Corporation, Marcel Dekker
[R4] The CAD Guidebook: a basic manual for understanding and improving Computer-Aided Design, CRC Press

INTERIOR PROJECT - II

Paper Code: ID-CC-308

L	T/P	S/D	Credits
0	0	8	5

Objective & Pre-requisite: Objective of project is to develop the aesthetics and abilities to design commercial interiors with the help of Principles and Elements of design.

Restaurants: Any type Indian

Any state with special effects of decor

- Chinese
- Japanese

Requirements: layout plan, furniture to match the theme wall, floor, ceiling finishes and specific use of lights. Importance of Furniture and its design to justify the type of restaurants students wants to design.

Role of upholstery wall finishes

Paints

Wallpapers

Wall panelling, etc.

Furniture sketches with dimensions and material details.

3D views in color

Role of art work and elements used in, to enhance the theme of Restaurants may be justified in the views.

Beauty Parlour: Requirements for drawing are the same.

LIFE SKILLS

Paper Code: ID-CC-401

L	T/P	S/D	Credits
1	0	4	3

Objectives and Pre-requisites: Students should have studied subjects such as General languages, social studies and Moral education at school level. The objective of this subject is to prepare the students to become a good citizen and a professional useful to the society.

Learning Outcomes: The knowledge of this subject will give the student a value system which will help him in taking decisions in professional and social life for the benefit of society at large.

UNIT-I

Introduction: Definition and importance of Life Skills, Livelihood Skills, Survival Skills, Life Skills Approach, Life Skills based education, Life Skills Training- Implementation Models

UNIT-II

Learning and Performance, Cognitive Development, Maturation, Adult Learning, Approaches to Learning Pillars of Education and Life Skills- Four Pillars: Learning to Know, learning to Do, learning to Live Together, learning to be learning throughout Life

UNIT-III

Social Skills and Negotiation Skills: Self Awareness, Empathy, Effective Communication, Interpersonal Relationships

UNIT-IV

Thinking Skills: Nature, Element of Thought, Types, Concept Formation, Reasoning, Creative and Critical Thinking

UNIT-V

Coping Skills: Coping with Emotions, coping with Stress, Integrated use of thinking skills, social skills and coping skills

Text Book(s):

[T1] Rajasenan, N.V. (2010). Life Skills, Personality and Leadership, Rajiv Gandhi National Institute of Youth Development, Tamil Nadu

[T2] Duffy, Grover, K., Eastwood, A. (2008). Psychology for Living-Adjustment, Growth and Behaviour Today, Pearson Education

Reference Book(s):

[R1] Debra McGregor, (2007), "Developing Thinking; Developing Learning - A Guide to Skills in Education", Open University Press, New York, USA

[R2] Singh Madhu, (2003). "Understanding Life Skills, Background paper prepared for Education for All: The Leap to Equality"

[R3] Nair. A. Radhakrishnan, (2010). "Life Skills Training for Positive Behaviour", Rajiv Gandhi National Institute of Youth Development, Tamil Nadu.

[R4] Dahama O.P., Bhatnagar O.P. (2005). "Education and Communication for Development, (2nd Ed.)". Oxford& IBH Publishing Co. Pvt. Ltd. New Delhi

INTERIOR DESIGN & LANDSCAPE – II

Paper Code:ID-CC-402

L	T/P	S/D	Credits
1	0	4	3

Objective & Pre-requisite: To make Interior schemes of different types of interiors and use of landscape in interior & exterior

UNIT-I

Preparing Interior Scheme for

- (a) Office Area for Architects or Interior Designers, Any Office
- (b) Office Private individual office

UNIT-II

Commercial office containing Reception Area chairman's chamber, Directors Room, Staff area with open cubicles, pantry & Toilet /Washroom area, conference hall & common staff area and drawing required as layout plans, elevation and perspective Views of different area in color with use of proper accessories, plants and flower arrangement for various areas of office

UNIT-III

Fast Food Restaurant: - Existing Restaurant in neighbourhood with layout plan and perspective view in the form of free hand sketches.

UNIT-IV

Public Park of your own colony/ area or specified park by the faculty
Create space for public function stage and gazebo etc.

UNIT-V

Terrace garden to be designed, laying of grass on terrace, potted plants, hanging baskets
use of lights and making sitting areas for small family get-togethers.

Drawing required: -

Layout plan, Elevations, and Perspective view of different areas in colour with use of proper Accessories, plants and flower arrangements for various areas in office.

NOTE: - Design to be made by students under the guidance of faculty, lecture, demo visit of various malls/ shopping area for restaurants/ fast food visit, visit of nursery for the knowledge of plants and sculptures.

Text Book(s):

- [T1] Indoor Plants by Xania Field
- [T2] World Architecture (With Introduction to landscape Architecture) by G.K. Hiraskar
- [T3] World of house plants by JOHANS
- [T4] Indoor garden by HUNTER
- [T5] Indoor gardening by READER DIGEST ASSOCIATION (LONDON)
- [T6] Japanese homes and gardens by Marcus G. Sims

Reference Book(s):

- [R1] Interior Decoration by Satish Chandra Agarwala

DISPLAY DESIGN - III

Paper Code: ID-CC-403

L	T/P	S/D	Credits
1	0	4	3

Objective: To make schemes for different types of displays

UNIT-I

Island display, Use and importance of island display.
Special equipment's and display aids
Electronic and mechanical devices to create movement in display
Display of handicraft and handlooms of different states

UNIT II

Display of electronic goods using proper theme
Furniture of different types (Residential, offices, etc)

UNIT-III

Preparation of plans, elevations, and 3D views in colour showing proper use of lights, colours, lettering and props

UNIT-IV

Wall-cum-island display
Furnishing store, toy shop, sports goods, etc

UNIT-V

Preparing plans, elevation and view at least two different types of projects to be done in each semester.
For understanding lectures demonstration in studio classes, visits to various showrooms, emporia, malls, exhibitions, etc.
Brief reports of the visits to be submitted

Note: Demonstration and visit to various malls, stores, exhibition and workshops.
Practical: Sketching existing display and making sketch files on various topics.

FURNITURE DESIGN WORKSHOP - IV

Paper Code:ID-CC-404

L	T/P	S/D	Credits
1	0	4	3

Objective & Pre-requisite: To teach furniture design, joinery for furniture manufacturing in relation to specific interiors, drawing of different furniture pieces based on the above.

UNIT-I

Introduction & Study of the space saving furniture, Residential & Commercial area

UNIT-II

Different material used for making furniture like cane, Bamboo, Wood, Glam, Metal, PVC.

UNIT-III

Types of Wood Joints and their purposes

UNIT-IV

Concept of folding & Knock Down furniture, Movable, Modular furniture

UNIT-IV

Different finishes used on furniture according to the climatic Conditions of different Countries.

UNIT V

Demonstration of handling softwares to simulate designing furnitures and their design

Note:

1. Furniture to be designed freehand sketch files to be made topic wise.
2. Visit to various furniture workshop exhibitions and showrooms for demonstrations and information from time to time

Text Book(s):

- [T1] The Encyclopaedia of Furniture, Joseph Aronson, Crown Publishers, New York
[T2] Time Saver Standards for Interior Design, Joseph De Chiara, McGraw Hill, New York [T3] Portable Furniture by Vicki Brooks
[T4] Shelves and Cabinets by Alexandria, Virginia

Reference Book(s):

- [R1] Interior Design, Francis D.K. Ching, John Wiley & Sons, New York
[R2] Office Furniture, Susan S.Szenasy, Facts on file Inc, New York

INTERIOR SERVICES – II

Paper Code: ID-CC-405

L	T/P	S/D	Credits
1	0	4	3

Objective & Pre-requisite: This course aims at imparting knowledge in the area of interior series and their application like Air Conditioning, Sound insulation.

UNIT-I

SOUND AND THERMAL INSULATION

Behaviour of heat and sound propagation
Acoustical defects such as echo, reverberation, sound foci
Methods of correcting
Sound absorbing materials
Use of sound insulating materials in interiors like auditorium conference hall typing room

UNIT-II

FIRE SAFETY SYSTEMS

Causes of fire
Fire proof (Resistant) material
Application of fire proof (Resistant) material
Survey - Firefighting equipment's

UNIT-III

VENTILATION

Ventilation (i) Natural (ii) Artificial or Mechanical
Requirement of ventilations system
Artificial (mechanical) Ventilation systems - Extraction, Plenum, Extraction-Plenum, Air Conditioning

UNIT-IV

AIR CONDITIONING

Definition, Essentials of comfort Air Conditioning
Types - Unit A/C, Central A/C, Split A/C, Package Unit, Central and Direct Expansion & Chilled water system (Indirect)
Essentials of Air conditioning - Filtration, heating and cooling, humidification or dehumidification, air Circulation or distribution
Latent heat, ton of air conditioning, refrigeration etc.

UNIT V

Floor safety during interior, Different measures of floor safety indoor/outdoor, selection

Note: Case study of Analysis of existing building

Text Book(s):

- [T1] Building Construction by B.C.Punmia
[T2] Building Construction by Sushil Kumar

- [T3] Materials by RANGWALA
- [T4] Sanitary engineering by RS DESHPANDEY
- [T5] Water supply and sanitation by CHARANJIT SHAH
- [T6] A-Z of practical building constructions & its management By SANDEEP MANTRI

- [T7] Electrical engineering by O.P. SHUKLA
- [T8] Water supply and sanitation engineering by P.K. UPADHYAY

Reference:

- [R1] Fire Fighting by S. Shah
- [R2] Ready Reckoner by Charan Jeet S. Shah



INTERIOR MATERIALS CONSTRUCTION TECHNIQUE – III

Paper Code: ID-CC-406

L	T/P	S/D	Credits
1	0	4	3

Objective & Pre-requisite: The objective is to refurbish different types of interior.

UNIT-I

PANELING

Design and fixing details of panelling,

Materials used for panelling in interior

Panelling in plywood

UNIT-II

PARTITIONS (SPACE DIVIDERS- FULL OR HALF PARTITIONS)

Types

Simple partitions in wood, glass and metal

Movable partitions

Sound proof partition

Various modern materials available in markets

UNIT-III

PARTITION design of living dinning,

Partition designs for kitchen

Partition design for offices

UNIT-IV

FALSE CEILING (TIMBER)

Purpose

Materials used for fixing and finishing.

Design and details of false ceiling in timber

UNIT-V

FALSE CEILING (OTHER MATERIALS)

Role of glass, gypsum, POP in false ceiling

Fixing of Plaster of Paris in false ceiling

Text Book(s)

[T1] Building Construction by Sushil Kumar

Reference Book(s)

[R1] Building Constructions by W. B. McKay, V.P. Sikka, B.C. Punmia, ARORA AND BIRDI

AUTO CAD – II

Paper Code: ID-CC-407

L	T/P	S/D	Credits
1	0	4	3

Objective & Pre-requisite: The objective of AutoCAD is to enable students to create 2D and 3D drawing in AutoCAD.

UNIT-I

Introduction to working in AutoCAD and layers
Introduction: the x, y co-ordinate system
Working with layers

UNIT-II

Drawing insertion, Insert command
Object snap, Snap in AutoCAD

UNIT III

Building Information Modelling, wrapping it up
Zooming and panning, freehand sketch, editing and drawing

UNIT-IV PLAN AND 3D VIEW DRAWING

Introduction
3D CAD Terminology
Isometric Drawing
The 3D co-ordinate system
3D rotation
Viewing in 3 -D objects
Wire frame Drawing Techniques
Line thickness Drawing Techniques
Regions and 3-D faces

UNIT-V ENHANCED 3-D

Extruding and lofting
Revolving objects
AutoCAD 3-D modeling -3D views

Text Book(s)

[T1] Mastering AutoCAD by George Omura (BPB Publications)

Reference Book(s)

[R1] Joseph A. Fiorello, CAD for interior: Beyond the basics John Wiley & Sons
[R2] John K. Krouse, what every engineer should know about CAD & computer aided manufacturing: the CAD/CAM revolution, M. Dekker
[R3] Dinesh Maidasani, straight to the point- AutoCAD, Laxmi Publications, Ltd.

INTERIOR PROJECT – III

Paper Code: ID-CC-408

L	T/P	S/D	Credits
0	1	8	5

Objective & Pre -requisite: Objective of the project is to develop the skill and ability to design versatile commercial interior design. Students to the best of their ability and aesthetics develop the project.

Nursery school-cum-day boarding and activities school study at least two schools in the neighbourhood. Submit the report before initiating the project.

Drawings required are-

Layout plan of different areas and small open activity area

Furniture and special furniture for day boarders

The overall ambience with effective designs and landscape

Creative Art Centre: - For the age group of 12 onwards to learn dance, drama, music, drawing, painting, etc. Required drawings are the same as above (nursery school project).

SCHEME OF EXAMINATION

And SYLLABI

For

BACHELOR OF VOCATION

In

INTERIOR DESIGN

5th SEMESTER to 6th SEMESTER

BACHELOR OF VOCATION

INTERIOR DESIGN

FIFTH SEMESTER EXAMINATION

Paper Code	Paper ID	Paper	L	T/P	S/D	Credits
THEORY PAPERS						
ID-CC-501		Technical English	3	0	0	3
ID-CC-502		Legal Ethics & Professional Practice	3	0	0	3
PRACTICAL/VIVA VOCE / STUDIO						
ID-CC-503		Interior Design - I	1	0	4	3
ID-CC-504		Visual Merchandising - I	1	1	4	4
ID-CC-505		Product Design - I	1	1	4	4
ID-CC-506		Interior Materials Construction technique - V	1	0	4	3
ID-CC-507		Interior Project - IV (Minor Project)	1	0	8	5
DHSID-508		Site Visits	0	0	0	2
DHSID-509		Summer Project - II	0	0	0	2
GENERAL ELECTIVE - II (Select any one)						
ID-EC-501		NSS	0	2	0	1
ID-EC-502		Sports	0	2	0	1
ID-EC-503		ECO Club	0	2	0	1
TOTAL			11	04	24	30

There are five industrial trainings to be carried out by the student(s) in B.Voc course. Industrial Trainings I, III and V will be with weightage of two credits each. These trainings are to be carried out during winter vacations for the duration of two weeks. Industrial Trainings II and IV will be with weightage of four credits each. These trainings are to be carried out during summer vacations for the duration of four to six weeks. These training

may be done from industry/Skill Knowledge Providers (SKPs) /Sector Skill Councils (SSCs)/ Training Centers/ Institutes. Student should submit training report during evaluation. Industrial Training done at the end of the semester will be evaluated in the subsequent semester

Note: The above subjects require site visits, market survey, visit to various malls, exhibition, art galleries & museum etc.

Training/Interior Design Project-I The student are advised to undergo two weeks in- house training during winter break and should submit project work for evaluation during the sixth semester

*Non University Examination System (NUES)

**BACHELOR OF VOCATION
INTERIOR DESIGN
SIXTH SEMESTER EXAMINATION**

Paper Code	Paper ID	Paper	L	T/P	S/D	Credits
THEORY PAPERS						
DHSID-601		Entrepreneurship & Project Management	3	1	0	4
PRACTICAL/VIVA VOCE / STUDIO						
DHSID-602		Interior Design - II	1	0	4	3
DHSID-603		Visual Merchandising - II	1	1	4	4
DHSID-604		Product Design - II	1	1	4	4
DHSID-605		Interior Budgeting & Estimation	1	0	4	3
DHSID-606		Interior Project - V (Major Project)*	0	0	12	6
DHSID-607		Exhibition and Portfolio	0	0	0	4
DHSID-608		Winter Project – III	0	0	0	2
TOTAL			07	03	28	30

NOTE:

There are five industrial trainings to be carried out by the student(s) in B.Voc course. Industrial Trainings I, III and V will be with weightage of two credits each. These trainings are to be carried out during winter vacations for the duration of two weeks. Industrial Trainings II and IV will be with weightage of four credits each. These trainings are to be carried out during summer vacations for the duration of four to six weeks. These training may be done from industry/Skill Knowledge Providers (SKPs) /Sector Skill Councils (SSCs)/ Training Centers/

Institutes. Student should submit training report during evaluation. Industrial Training done at the end of the semester will be evaluated in the subsequent semester

Note: 04 hrs per week are kept for outdoor visits as per the requirement of the above subject which will include site visits, market survey, and visit to various malls. Exhibitions art galleries and museums etc. the same shall be reflected in the time table.

#*The student will submit a synopsis at the beginning of the semester for approval from the departmental committee in a specified format, thereafter he/she will have to present the progress of the work through seminars and progress reports. Seminar related to major project should be delivered one month after starting of Semester. The progress will be monitored through seminars and progress reports. *The students may be allowed to do Industrial Major Project on-site during 5 days in a week and class work should be completed in 2 working days in the respective institution. If in case, the classes are held during Saturday /Sunday then faculty should be given off in lieu of Saturday/Sunday.*

For Award of Diploma:

1. The total number of the credits of the Diploma (Interior Design) Programme = 60
2. Student shall be required to appear in examinations of all courses. However, to award the Diploma (Interior Design) a student shall be required to earn a minimum of 58 credits.

For Award of Advanced Diploma:

1. The total number of the credits of the Advance Diploma (Interior Design) Programme = 120
2. Student shall be required to appear in examinations of all courses. However, to award the Advanced Diploma (Interior Design) a student shall be required to earn a minimum of 116 credits.

For Award of B. Voc Degree:

1. The total number of the credits of the B. Voc. (Interior Design) Programme = 180
2. Student shall be required to appear in examinations of all courses. However, to award the B. Voc. (Interior Design) degree, a student shall be required to earn a minimum of 168 credits.

TECHNICAL ENGLISH

Paper Code: ID-CC-501

L	T/P	S/D	Credits
3	0	0	3

Objectives:

To equip students to recognize, explain, and use the rhetorical strategies and the formal elements of specific genres of technical communication, such as technical abstracts, data based research reports, instructional manuals, technical descriptions etc.

To help students understand the process of collection, analysis, documentation, and reporting of research clearly, concisely, logically, and ethically and understand the standards for legitimate interpretations of research data within scientific and technical communities.

To initiate students into critical and creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information towards meaningful and effective communication

To help students understand ethical considerations in technical and professional writing realizing the consequences of various communication acts.

Learning Outcomes: Upon successful completion of the course the student shall be able to:

Understand and demonstrate composing processes through invention, organization, drafting, revision, editing, and presentation as evidenced in satisfactory completion of all the written, visual, web-based, and oral discourses to be submitted in this course.

To recognize and use the rhetorical and stylistic elements necessary for the successful practice of scientific and technical communication;

Create various products most frequently used in scientific and technical communication.

Develop ethical problem-solving communication skills in professional situations.

UNIT-I

Technical Writing: Definition, Purpose and Characteristics of Technical Writing.

Technical Writing Skills: Methods and means of the Pre-writing stage, the Writing Stage and the Post-Writing Stage.

UNIT-II

Formal Formatting: Arrangement of Formal Elements, Front Material, Format Devices in the Body of Formal Report-Heading, Pagination, End Material - Citations, References and Bibliography, Appendix.

UNIT-III

Writing and Designing for Electronic Media: Use of Internet as a Writing tool; designing and writing for multimedia applications and the World Wide Web.

UNIT-IV

Research and Writing Ethics: Explaining Forms and Consequences of Plagiarism, Introduction to Intellectual Property Right and Copy Right Laws.

UNIT-V

Technical Writing: Formal and informal writings; formal writings/reports, handbooks, manuals, letters, memorandum, notices, agenda, minutes; common errors to be avoided

Text Book(s):

[T1] Sides, Charles H., "How to Write and Present Technical Information", Cambridge Univ. Press, 1999.

[T2] Basu, B. N., "Technical Writing", PHI Learning Pvt. Ltd., 2007.

Reference Book(s):

[R1] Beer, David F. and David A. McMurrey, "A Guide to Writing as an Engineer", New York: Wiley, 2005.

[R2] Gibaldi, Joseph, and Walter S. Achtert, "MLA Handbook for Writers of Research Papers, Thesis, and Dissertations", Modern Language Association, 1980.

[R3] Rubens, Philip, "Science and Technical Writing: A Manual of Style", Routledge, 2002. [R4] Anderson, Marilyn, Pramod K. Nayar, and Madhucchandra Sen, "Critical Thinking, Academic Writing and Presentation Skills", Pearson. 2010

LEGAL ETHICS & PROFESSIONAL PRACTICE

Paper Code: ID-CC-502

L	T/P	S/D	Credits
3	0	0	3

Objectives & Pre-requisites: To acquaint the students with role of an interior designer in society, scale of Charges conduct in the practice.

UNIT-I

Introduction - Contract Document

- Contract and conditions of engagement of interior projects
- Responsibilities, liabilities and duties of interior designer
- Terms and conditions for entering into Contact, Scale of charges and mode of payment for the professional services to be offered
- Duties and liabilities as per the Architect Act, 1972
- Contractor's and Owner's (Employer's) Duties and liabilities.

UNIT-II

Professional Procedures:

- Procedure from date of enquiry, keeping of cost, job records, modifications, alteration to estimates, Preparation of schedules and progress charts, Supervision of sub-trades and sub-contractors.

UNIT III

Code of Practice

- Confidential information for client's employer, Encroachment on existing project of another designer in direct competition, Fees, scale of change, commission and discount, retaining fees, rejection.
- Advertising, press display, classified columns, announcement of change of address, size of name plate etc.
- Conditions of agreements and terms of contracts alternatives agreements, out of pocket expenses, stages of payment, settlement of disputes and arbitration

UNIT IV

Job Procedures

- Regulations & restrictions on various types of new & old work, Local by-laws pertaining to interiors & renovation of buildings, Storage & maintenance of plants & materials, Liabilities, Local tradesmen working conditions & practices.

UNIT V

Professional practice covering the respective roles of the various stakeholders in the profession of interior designing and the factors governing the same; Professional ethics; Various aspects of contracts relating to construction and management of contracts; types of contractual and other disputes in the profession and methods of dispute resolution; legal aspects relating to employment and service conditions of labour; intellectual property rights and their legal framework

Text Book(s):

[T1] Professional Practice by Dr. Roshan H. Namavati

[T2] Metric Handbook (Planning & Design Data) 2nd Ed. Edited by, David Adler

Reference Book(s):

[R1] Professional Practice by Krishnamurthy K.G

[R2] The Construction of Building by R. Barry.

INTERIOR DESIGN - I

Paper Code: ID-CC-503

L	T/P	S/D	Credits
1	0	4	3

Objectives: Objective of this subject is to develop the ability to design commercial interiors of various types. The exercise base of commercial interiors in this semester must be handled keeping aesthetics in mind and special effects to justify the design.

UNIT-I

Green Architecture - Construction Techniques & usages of building materials - efficient, earth friendly or recycled for the creation of eco-friendly & intelligent interiors.

Fire Safety - Introduction to fire safety and causes of death in fire, Responsibility of Designer's towards fire safety.

Disaster Management - Understanding Disasters, Geological and Mountain Area Disasters, Wind and Water Related Natural Disaster, Man Made Disasters

UNIT-II

Perspective in all mediums

Eating house: Cuisine based restaurants and fine dining areas. Bed and Breakfast or Guest House Project with dining area which could be used for small events like Birthday Parties, weddings, functions (like Mehendi, Sangeet, etc.) or for exhibitions, etc.

UNIT-III

Wash room -Perspective in all mediums.

Residential area with all latest equipment's

Commercial washroom; Either of 5 Star Hotel or a Mall.

UNIT-IV

Perspective in all mediums

A retail out let like Reliance Fresh, Big Apple, Save Max, Big Bazar, etc

Layout plan, elevation with special stacking racks, special effects of light in displays areas of goods, 3D view in color.

UNIT- V

Design Standardization:

Standardization of various interior elements i.e. windows and doors- sizes, standards and locations. Counters (kitchen, reception, banks etc.), lighting fixtures and air-conditioning gadgets, Toilet fixtures, office automation system. Furniture standards (sizes of domestic and public furniture); Toilet and Kitchen equipment - sizes and standards; Vehicles in motion: parking along with turning radii for two-wheelers and cars (various segments; as per their sizes)

In all projects drawings required would be: Plan, light/ electrical plan, elevations, 3Dviews, sketches of special related services and areas too.

Text Book(s):

[T1] Color dictionary by Brasi& Workman

- [T2] Indian history by Goyal
- [T3] Building Services, Anthony Rowley
- [T4] Fire Fightings, S. Shah
- [T5] Great interiors by Grant
- [T6] Central Water Commission, 1989, Manual of Flood Forecasting, New Delhi.

Reference Book(s):

- [R1] Interior design by Ahmed A. Kasu
- [R2] Landscape Detailing Surfaces- Michael Littlewood
- [R3] Illustrated history of Interior Decoration by Praz

A handwritten signature in black ink, consisting of stylized, overlapping loops and strokes, located in the bottom right corner of the page.

VISUAL MERCHANDISING – I

Paper Code: ID-CC-504

L	T/P	S/D	Credits
3	0	0	3

Objectives: Since the background of Display is there in Visual Merchandising, students are given knowledge of promoting sales of products. Students take up assignments as Display on lists or exhibition designer.

UNIT-I

Atrium/ Foyer Display

- What is atrium or foyer display?
- Its importance and how to present the same?
- Scope of atrium display
- Planning and colored view for approval on sheet/ drawings.

UNIT-II

- Automobile
 - Car
 - Two Wheeler
- Cold drinks or new juice introduction in the atrium

UNIT-III Mobile displays

- Its importance and use
- Introducing new products with the help of publicity material like placard, hoarding, leaflet/flyers

UNIT-IV

- Exercises on cosmetic display, landscape, plants and landscape accessories display

UNIT-V

How to define your Brand, and design a store environment that becomes a Brand Experience. Space plan a store that is efficient, engaging, and easy to shop. Select display fixtures.

Signage and Graphics program.

Window Displays that are dramatic, powerful, and engaging, efficient lighting program, Color and Materials selections, design a logo, mark, and tagline that are memorable.

NOTE: Students must visit malls, shopping areas, exhibitions for the understanding the same.

Text Book(s):

- [T1] Image India by Dhamija
- [T2] Indian folk art and craft by Dhamija
- [T3] Indian cultures through the ages by Vidyarthi

PRODUCT DESIGN – I

Paper Code: ID-CC-505

L	T/P	S/D	Credits
1	1	4	4

Objectives: Students must learn the techniques of design the product first and production of the same in any medium, they select.

UNIT-I:

- Section of material, understand the properties of material
- Material to work on unit I is PAPER
- Products which can be made are: Pen stand, tissue paper box, gift box, wedding card box, sweets or chocolate box. The drawing with complete size and details must be made.

UNIT-II:

Material: - Mount board, choksi board

Products: - Photo frame, table calendar, wall clock, wall hanging, etc. With proper design and drawing on sheet with details.

UNIT-III:

Material: - Thermocol

Products: - Accessories/ props for Birthday Party for theme oriented, etc.

All these accessories must be drawn on paper with complete details and color schemes

Prepare: Masks for different occasions, Candles, Diyas, Flowers, etc. to orient he theme

UNIT-IV:

Material: - Cloth, wire, ribbon, wool, sutli, etc.

Products: - Wind chimes, decorative balance, flowers with cloth, ribbon and wool, etc. All designs to be made on drawing sheets

UNIT-V:

Definition – Estimation of Manufacturing cost – reducing the component costs and assembly costs – Minimize system complexity – Prototype basics – principles of prototyping – planning for prototypes – Economic Analysis – Understanding and representing tasks – baseline project planning – accelerating the project – project execution

TOOLS/ EQUIPMENTS REQUIRED FOR HOLDING PRODUCT DESIGN WORKSHOP: Scissors, paper cutters, pliers, small hammers

These are required for cutting the edges of material smoother and turning and twisting of wire, or other materials for better and firm joints.

Text Book(s):

[T1] Wood bonding handbook by Stevens & Turner

[T2] Indian decorative design by Aryan

[T3] Furniture in color by Synge

[T4] Furniture making by Collisehon

Reference Book(s):

[R1] Furniture face lifts by Wagstaff & Thurgood

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INTERIOR MATERIALS CONSTRUCTION TECHNIQUE – II

Paper Code: ID-CC-506

L	T/P	S/D	Credits
1	1	4	4

Objectives: The objective is to refurnished different types of interiors.

UNIT-I

TECHNICAL TERMS - e.g. Tread, riser, flight, landing, nosing, Scotia, soffit, newel post, balusters, headroom, handrail, balustrade, etc.

REQUIREMENTS OF GOOD STAIRS:

- Location
- Width of stair
- Length of flight
- Pitch of stair
- Headroom
- Balustrade
- Step dimensions
- Material of construction

UNIT-II

- Calculation of step size
- Types of steps-
- Round ended
- Bull nose step
- Flier
- Splayed step
- Commode step
- Dancing step

UNIT-III CLASSIFICATION OF STAIRCASE

- Straight
- Turning stairs- quarter turn
- Half turn (dog legged, open newel, geometrical)
- 3-quarter turn
- Bifurcated
- Continuous stair (circular, spiral, helical) inn different materials like Timber, Metal, Stone, Brick, RCC etc.

UNIT-IV CLADDING, CEILING MATERIALS, FINISHES & its APPLICATIONs Define Cladding Stone, Timber, Weather Board, Fiber Cement, Brick

- RCC, Vinyl, Metal, etc

TYPES OF FALSE CEILING:

- Gypsum, Plaster of Paris, Wooden, Glass, Metal,
- Synthetic Leather or Cloth Ceiling.

UNIT-V

TYPES OF FALSE CEILING:

- Gypsum, Plaster of Paris, Wooden, Glass, Metal,
- Synthetic Leather or Cloth Ceiling.

Text Book(s):

[T1] The Construction of Buildings - Barry

[T2] Building Construction VOL. 1, 2, 3, 4 BY W.B. Meckay

[T3] Interior Construction & Detailing - David Kent Ballast.

Reference Book(s): [R1] Building Construction by B.C. Punmia [R2] Building Construction By Sanjay Mahajan

INTERIOR PROJECT - IV
(Minor Project)

Paper Code: ID-CC-507

L	T/P	S/D	Credits
1	1	4	4

Objectives: To make the students understand the working of various commercial spaces and importance of areas and space allotment for each working area.

Handling of different types of projects with proper space allotment Project which can be undertaken (any one) in Bank, Library or Airlines office.

First, they must study the existing office by the visiting and understanding the work of the project, minimum space requirement and division of work stations.

Submit a report of their visit with some existing areas. Drawings requires in the form of sketches.

Give a presentation on the same in the class.

The project will be given by the teacher.

Drawing required:

Number of people working

Work stations

Furniture layout plan with amenities required

Finishes: wall, floor and ceiling

Light/ electric plan

Elevation of all existing areas

3D views with color

Sample chart-

1) Wall finishes like paint or any other finish

2) Floor finish samples, ceiling finishes with samples

3) Furnishing samples with all rates and fixing expenditure, etc. which would give the approx. expenditure to be incurred in the project.

VIVA on the project with internal and external exams to be held after the submission of the project using AutoCAD.

Text Book(s):

[T1] Color dictionary by Brasi & Workman

[T2] Indian history by Goyal

[T3] Floor design by Sareen

[T4] Ideal home book of kitchen

[T5] Great interiors by Grant

[T6] Interior design principles by M. Pratap Rao

Reference Book(s):

[R1] Interior design by Ahmed A. Kasu

[R2] Encyclopedia for color theory

[R3] Illustrated history of Interior Decoration by Praz

(General Elective - II)
NSS/ SPORTS/ ECO CLUB

Paper Code: ID-EC-501/ 502/ 503

L	T/P	S/D	Credits
0	2	0	1

Students should actively participate in either of the above activities of the institute during academic session. Credits shall be awarded accordingly based on final assessment by internal institute committee constituted by the Principal/Director of the respective institutes. Students are encouraged organize events and awards if any shall be distributed to students during annual day/ specific function day accordingly.



ENTREPRENEURSHIP & PROJECT MANAGEMENT

Paper Code: ID-CC-601

UNIT-I

ENTREPRENEUR

- Concept and nature, scope and philosophy of entrepreneurship
- Distinction between self-employment and entrepreneurship
- Importance of entrepreneurship and self-employment in our country
- Entrepreneurial traits
- Different forms of business organizations (sole proprietorship, partnership, co-operative societies, public and private undertakings)

L	T/P	S/D	Credits
3	1	0	4

UNIT-II

ENTREPRENEURIAL SUPPORT SYSTEM

- Introduction
- Sources of information
- Market survey and opportunity identification

UNIT-III

ELEMENTS OF MANAGEMENT

- Principles of management and managerial functions like planning, organizing, staffing, directing and controlling, industrial management
- Value of human relations in management

UNIT-IV

PROJECT MANAGEMENT

- Introduction to project management
- Time of progress chart, bar chart, Gantt chart, CPM & PERT
- Planning of activities
 - Allocation of time to various activities
 - Personal management and industrial relations- recruitments, selection, training, wage and salary administration related to small industries
 - Costing- methods and techniques of minimizing cost
 - Marketing- concept and functions, marketing mix, product planning, salesmanship and its principles
 - Sources of finance
 - Setting up of small scale industry with proper knowledge of Government Policies for financial resources (like banks and other financial bodies).

UNIT V

- Creativity and entrepreneurship
- Steps in Creativity 3.3 Innovation and inventions
- Using left brain skills to harvest right brain ideas
- Legal Protection of innovation
- Skills of an entrepreneur
- Decision making and Problem Solving (steps indecision making)

Text Book(s):

[T1] Entrepreneurship development and management by R. K. Singhal

[T2] Strategic Entrepreneurship by P. K. Gupta

Reference Book(s):

[R1] Construction management and accounts by V. N. Vazirani & S. P. Chandola

[R2] Principles of management by Y. K. Bhushan

[R3] Entrepreneurship and project management by Jasmer Singh Saini

INTERIOR DESIGN –II

Paper code: ID-CC-602

L	T/P	S/D	Credits
1	0	4	3

Objectives: The objective is to make the students understand and enable them to execute commercial interiors with theme of style. Perspective in all medium.

UNIT-I

- Introduction to Climatology, Climate & Role of Interior Designer.
- Design for Hot, Dry & Humid Climate. Implementing in different Designs.
- Surveying - Definition, Objective & its types.

UNIT-II

Coffee bar with book magazines and gift stalls, special souvenir walls of their brand **Drawings required:**

- Plan, elevations, light/ electric plan, special effect of walls, ceiling and exclusive furniture 3D views with vibrant color schemes.
- Coffee shop 24 hrs at 5-star hotel with Breakfast Island, lunch buffet, at night sweet & salad bar for minimum covers of 80-100.

Drawings required:

- Plan, elevations, light/ electric plan, special effects of different display of meals (breakfast, lunch dinner, etc.), 3Dviews in color creating an ambience to attract all age groups.

UNIT-III

- Unisex beauty parlour with chai/ coffee bar area with listed eats
- The parlour must have latest equipment's

Drawings required:

- Layout plan, special light required for treatment
- 3Dviews with color and special furniture required for parlour

UNIT-IV

- Apparel and accessories studio for all (kids, men and women) all age group with special brand like ZARA, BENETTON, etc. with window display in front of the shop. Special display counter for display of apparel and racks for stacking

Drawings required:

- Plan, elevation with special wall treatment, 3D views in color and highlight the display areas.

UNIT-V

Planning of commercial small Offices (Architect's office, Doctor's clinic, lawyer's chamber, etc.), study of use of space, circulation, system of storages, filing, etc. Maximum area to be designed 100 Sq. mts.

Text Book(s):

- [T1] Color dictionary by Brasi & Workman
- [T2] Indian history by Goyal
- [T3] Floor design by Sareen

- [T4] Ideal home book of kitchen
- [T5] Encyclopedia for color theory
- [T6] Illustrated history of Interior Decoration by Praz

Reference Book(s):

- [R1] Great interiors by Grant
- [R2] Interior design by Ahmed A. Kasu

- [R3] Surveying Vol. I, II and III by Dr. B.C. Punamia



VISUAL MERCHANDISING - II

Paper Code: ID-CC-603

L	T/P	S/D	Credits
1	0	4	3

Objectives: Since the background of Display is there in Visual Merchandising, students are given knowledge of promoting sales of products. Students take up assignments as Display on lists or exhibition designer.

UNIT-I

- Design a mela/carnival
- Difference between the two, importance of exhibition Ex- project on mela (Suraj Kund or Diwali mela)

UNIT-II

- EX- Carnival in school or colonies
- Christmas or New Year
- Design with accessories and props- the project planning and 3D views in color

UNIT-III

- Exhibition private (of an individual)
- Group of artists to participate under one roof.
- Interior designer, furniture designer, accessories designer, light designer new material introduction Ex- Planning and 3D views in color

UNIT-IV

Exhibition like trade fair, weekend one-day show of different states and countries, studio project with planning and colored views as presentation.

UNIT-V

Developing a visual literacy about our surroundings. To identify various types of timbers such as: Teak, Sal, Chir, Shisham, Deodar, Kail&Hollock by visual examination only. Learning and Writing various Font Styles in an effective manner. Develop a sense of Co-relation between Actual size and the Drawn sketch.

- Students must visit exhibition at trade fair ground and at various malls, etc.
- Students after learning the designing of exhibition can work as visual merchandise designer and can take up independent projects.

Text Book(s):

- [T1] Image India by Dhamija
- [T2] Indian folk art and craft by Dhamija
- [T3] Indian cultures through the ages by Vidyarthi

PRODUCT DESIGN - II

Paper Code: ID-CC-604

L	T/P	S/D	Credits
1	1	4	4

Objectives: Students to understand the, how to construct the different types of products with different types of materials like metal, wood, clay, plastic, etc.

UNIT I: Design and make any one product in metal sheet foil or out of waste cans or bottles (glass, plastic, tin) which can be easily cut with scissors or cutters.

UNIT II: Material- clay/ terracotta/ tiles Design, draw and create masks, door handles, knobs of clay hand work. Terracotta- tiles and work on them with ethnic motives create wall murals, table tops, planters, etc.

UNIT III: Design on sheets different types of furniture items like different types of tables, chairs, beds and some small items like racks, shelves, bench, planters, etc.

UNIT IV: One furniture (with joinery details) to be constructed in workshop, polish, painting, for the purpose of learning the finishes on furniture.

UNIT V: Preparation of product design using computer software and preparing a small scale model with appropriate Material

Text Book(s):

[T1] Wood bonding handbook by Stevens & Turner [T2] Indian decorative design by Aryan [T3] Furniture in color by Synge [T4] How to make your own furniture

Reference Book(s):

[R1] Furniture making by Collisehon
[R2] Furniture face lifts by Wagstaff & Thurgood

INTERIOR BUDGETING & ESTIMATION

Paper Code: ID-CC-605

L	T/P	S/D	Credits
1	0	4	3

Objectives: Basic understanding of quantities, cost & methods to make estimates. The students should be able to make estimate of interior schemes. Proposed for the client

UNIT-I

Estimate:

- Different Types
- General Principles of approximate methods of costing for various interior works for all types of old & new works.

UNIT-II

Specification:

- Definition.
- Principles of specification
- Types of specification
- Partition
- Partition walls commercial Plywood, block board Laminated Sheet, glass etc.
- Plastering with cement mortar.
- Flooring -Cement conc., marble, mosaic
- Distempering & Colors washing.
- Wood work: - Doors, window, partition, cabinet sets, false ceiling, furniture wall Partitions, Wall paneling, table, chair etc.
- Water supply & Sanitary Fitting etc.

UNIT-III

Taking out Quantities:

- Units of measurement -cubic meter, square meter, running meter.
- General rules for measurements.
- Quantity Survey: Spot item
 - > Prime cost
 - > Provisional sums
 - > Costing of work

UNIT IV

- Data collection & keeping information of market prices of materials
- Exercises on preparation & calling of Tenders.
- Estimation & Schedule of Quantities for furniture pieces
- Estimation of one complete project of interior
- Preparation of above estimates using computer software

UNIT V

Types of Estimates: Preliminary estimates - Plinth area estimate - Cubic rate estimate - Estimate per unit base, Detailed estimates - Definition - Stages of preparation - details of measurement and calculation of quantities and abstract Methods of preparing estimates, Preparing bills of quantities from drawings and pricing Preparing estimates from bills of quantities.

Text Book(s):

[T1] A Text Book of Estimation, Costing and Valuation by Gurcharan Singh and Jagdish Singh

[T2] Budgeting & Estimation by B. N. Dutta

Reference Book(s):

[R1] Civil Estimating & Costing by Amarjit Agarwal and A. K. Upadhya.

[R2] Professional Practice by Dr. Roshan H. Namavati

INTERIOR PROJECT - V
(Major Project)

Paper Code: ID-CC-606

L	T/P	S/D	Credits
0	0	12	6

Objectives: Students must be able to handle the complete project and must understand how and from where to require the required material and get the work executed as an independent entrepreneur. Any one project to be taken up and completed within the given time

Projects: Mall, Medical interior (nursing home, poly clinic, E.N.T. or dental clinic)

The student must study any one given project by visiting the existing sites; understand the working and requirement of the existing interior of the same.

An independent presentation by the student in class thereafter the project will be given by teacher to students.

Drawing required:

Layout plan & electric plan, special furniture requirements creating proper ambience to make the area comply with bylaws.

The standards and norms, elevations of existing areas with all types of finishes, 3D views in color and all interior Drawings to be made in AutoCAD & 3Ds MAX.

After completing the project students must submit the necessary drawings, documentation and presentation of high professional standards and the entire design process and methodology must be meticulously documented.

Text Book(s):

[T1] Color dictionary by Brasi & Workman

[T2] Indian history by Goyal

[T3] Floor design by Sareen

[T4] Ideal home book of kitchen

[T5] Great interiors by Grant

[T6] Interior design principles by M. Pratap Rao

Reference Book(s):

[R1] Interior design by Ahmed A. Kasu

[R2] Encyclopedia for color theory

[R3] Illustrated history of Interior Decoration by Praz