

No.: PMEB-1/Spl./28/2021-22

Date: 26-04-2022

NOTIFICATION

Sub.: Change of Nomenclature from the academic year 2022-23-reg.

Ref.: 1. Decision of the BOS Meeting held on 02-03-2022.

2. Decision of the Academic Council meeting held on 31-03-2022.

The Board of Studies in BOS in **B.Sc. (Interior Design & Decoration)** and **B.Voc. (Interior Design) (UG)** at its meeting held on 02-03-2022 has resolved and recommended to change the nomenclature of the course from **B.Sc. (Interior Design & Decoration)** to **B.Sc.-Hons.(Interior Design and Built Environment)** and duration of the course from 3 years to 4 years from the academic year 2022-23.

The Academic Council has also approved the above said proposals at its meeting held on 31-03-2022 and the same is hereby notified.

The change of Regulations, Syllabus and Scheme of Examination of **B.Sc.-Hons.(Interior Design and Built Environment)** course is uploaded in University website. The contents may be downloaded from the University website <https://uni-mysore.ac.in/PMEB/>.


REGISTRAR
REGISTRAR

University of Mysore
MYSURU - 570 005

To;

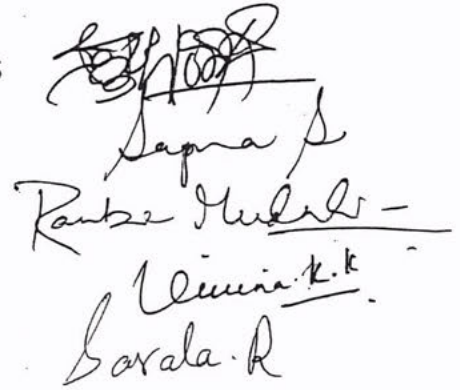
1. The Registrar (Evaluation), University of Mysore, Mysuru.
2. The Dean, Faculty of Science & Technology, DOS in Earth Science, MGM.
3. Prof. N.K. Lokanath, Chairperson, BOS in B.Sc. (Interior Design & Decoration) and B.Voc. (Interior Design)(UG), DOS in Physics, Manasagangotri, Mysuru.
4. The Managing Trustee, Mysore School of Design, # CA-01, University Layout, Near Dattagalli Ring Road, Lingambudi, Mysuru.
5. The Deputy Registrar/ Asst. Registrar/ Superintendent, Examination Branch, UOM, Mysuru.
6. The Special Officer to Hon'ble Vice-Chancellor, University of Mysore, Mysuru.
7. The PA to Vice-Chancellor/Registrar/Registrar (Evaluation), University of Mysore, Mysuru.
8. Office Copy.

Proceedings of the special meeting of the Board of Studies for B Sc (Interior Design and Built Environment) specialized program offered by Mysore School of Design (MSD) CA-01, University Layout, Near Ring Road, Limgambudi Palya, Dattagalli, Mysore - 08 held on 02/03/2022 at 11.45 am.

Ref: No. UA2/297/2010-11 dated 22/02/2022.

Members Present:

- | | | |
|-----------------------------|---|------------------|
| 1. Prof. N. K. Lokanath | - | Chairperson, BOS |
| 2. Ar. Sapna S | - | Member |
| 3. Ar. Ranbir Mudaliar | - | Member |
| 4. Ar. Vivina K | - | Member |
| 5. Ar. Sarala Rajesh Mahale | - | Member |



Members Absent: Nil

Chairperson welcomed all the members of the Board and placed the agenda of the meeting.

Change of Nomenclature of B Sc (Interior Design and Decoration) to B Sc (Interior Design and Built Environment) and eligibility criteria in line with NEP:

(Annexure 1)

Mysore School of Design proposed the change of scheme, syllabus, methodology of assessment and evaluation for B Sc (Interior Design and Built Environment) 3 years + 1 year. Prepared and submitted for approval:

(Annexure 2)

After discussion the Chairperson suggested that request to be made to the Registrar of University of Mysore for further consideration and approval of SL NO 1 & 2.


(Prof. N.K.Lokanath)
Chairperson, BOS

REGULATIONS APPROVED BY THE BOARD OF STUDIES OF THE UNIVERSITY OF MYSORE
FOR
BACHELOR OF SCIENCE [B.Sc.] Regular / Honours.
(Interior Design and Built Environment)
(UNDERGRADUATE COURSE)

Definitions of Key Words:

- a. Academic Year: Two consecutive (one odd + one even) semesters constitute one academic year.
- b. Choice Based Credit System (CBCS): The CBCS provides choice for students to select courses from the prescribed courses (core, open elective, discipline elective, ability and skill enhancement language, soft skill etc. courses).
- c. Course: Usually referred to, as 'papers' is a component of programme a. All courses need not carry the same weight. The courses should define learning objectives and learning outcomes. A course may be designed to comprise lectures/ tutorials/laboratory work/ field work/ project work/ vocational training/viva/ seminars/term papers / assignments / presentations/ self-study etc. or a combination of some of these.
- d. Credit Based Semester System (CBSS): Under the CBSS, the requirement for awarding a degree /diploma /certificate is prescribed in terms of number of credits to be earned.
- e. Credit: A unit by which the course work is measured. It determines the number of hours of instructions required per week in a semester. One credit is equivalent to one hour of lecture or tutorial or two hours of practical work/field work per week in a semester. It will be generally equivalent to 13-15 hours of instructions
- f. Grade Point: It is a numerical weight allotted to each letter grade on a 10-point scale.
- g. Credit Point: It is the product of grade point and number of credits for a course.
- h. Letter Grade: It is an index of the performance of students in a said course. Grades are denoted by letters O, A+, A, B+, B, C, P and F.
- i. Programme: A programme leading to award of a Degree, diploma or certificate.
- j. Semester: Each semester will consist of over 16 weeks of academic work equivalent to 90 actual teaching days. The odd semester may be generally scheduled from June to November and even semester from January to May.
- k. Semester Grade Point Average (SGPA): It is a measure of performance of work done in a semester. It is the ratio of total credit points secured by a student in various courses registered 5 in a semester and the total course credits taken during that semester. It shall be expressed up to two decimal places.
- l. Cumulative Grade Point Average (CGPA): It is a measure of overall cumulative performance of a student over all the

semesters of a programme. The CGPA is the ratio of total credit points secured by a student in various courses in all the semesters and sum of the total credits of all courses in all the semesters. It is expressed up to two decimal places.

- m. Transcript or Grade Card or Certificate: Based on the grades earned, a grade certificate shall be issued to all the registered students after every semester. The grade certificate will display the course details (code, title, number of credits, grade secured etc.).

SL.NO.		EXISTING	PROPOSED	REFEREN CE
1.0	Introduction			
1.1		Under the scheme launched by the University Grants Commission (UGC), skill development based higher education leading to the BACHELOR OF SCIENCE [BSc] (Interior Design and Decoration) is introduced in Mysore School of Design, Mysore, Karnataka State.	Under the scheme launched by the University Grants Commission (UGC), skill development based higher education leading to the BACHELOR OF SCIENCE [BSc] (Interior Design and Built Environment) is introduced in Mysore School of Design, Mysore, Karnataka State.	DM Regu. 3.2.a
1.2		The proposed course will have a judicious mix of both the skills and the generic education components. The design put-forth hereunder meets the objective of equipping the aspirants to cope with emerging trends, industry expectations and challenges.	-----Same-----	
1.3		The University of Mysore, Karnataka State, has accorded approval and recognition to the Course leading to award of the degree "B.Sc (Interior Design and Decoration)" designating Mysore School of Design as a "Recognized Specialized Centre of University of Mysore".	The University of Mysore, Karnataka State, has accorded approval and recognition to the Course leading to award of the degree "B.Sc (Interior Design and Built Environment) designating Mysore School of Design as a "Recognized Specialized Centre of University of Mysore".	
2.0	Entry level			
2.1		The eligibility for admissions to the courses shall be governed in accordance with the rules framed by the University of Mysore from time to time.	The eligibility for admissions to the courses shall be governed in accordance with the rules framed by the University of Mysore from time to time.	DM Regu. 5.4

		<p>The eligibility criteria for admission to the B.Sc Degree course shall be pass in: 10+2 examination or Pre-university or its equivalent with Mathematics or Chemistry or Physics, Statistics with a minimum 50% overall marks in core subjects;</p> <p>OR</p> <p>3-year Diploma recognised by state technical board, after SSLC/10th Class with Mathematics and English as subjects.</p>	<p>Candidate who has passed the 10+2 examination or Pre-University examination conducted by the Pre-University Education Board in the State of Karnataka or two years Job Oriented Courses conducted by the Board of Vocational Education of any State Government or any other examination considered as equivalent thereto</p> <p>OR</p> <p>3-year Diploma in any stream recognised by any State Technical Board after 10th Standard.</p>	
2.2	Lateral Entry	-	For students who have successfully completed three year diploma in Architecture/Interior Design/Civil or equivalent shall be admitted into 3rd semester (2 nd year) B.Sc. The eligibility to be decided by committee consisting of Principal, HOD and one Faculty.	New Addition
2.3		-	Students opted for lateral exit may rejoin the course (Lateral Entry) by submitting the certificate/diploma/degree awarded. However the maximum duration of the course will be counted from the initial admission year.	New Addition
3.0	Scheme of the Program			
3.1		<p>The duration of the B.Sc (Interior Design and Decoration) course shall be THREE years consisting of Six semesters of five months each inclusive of the days of examinations.</p>	<p>Each semester shall consist of at least 16 weeks of study with a minimum of 90 working days (excluding the time spent for the conduct of final examination of each semester)</p> <p>The duration of the course will be as follows; -</p> <p>B.Sc (Interior Design and Built Environment) course shall be THREE years consisting of Six semesters</p> <p>B.Sc with Honours (Interior Design and Built Environment) course shall be FOUR years</p>	DM Regu. 4

			consisting of Eight semesters	
3.2		Only such students who successfully complete 179 credits in six semesters without break shall be considered for declaration of merits/medal.	B.Sc - Only such students who successfully complete 144 credits in six semesters without break shall be considered for declaration of merits/medal. B.Sc with Honours - Only such students who successfully complete 186 credits in eight semesters without break shall be considered for declaration of merits/medal.	DM Regu. 4
4.0		Attendance Criteria		
4.1		A candidate for being eligible for appearing to the theory examination of All Semesters of the Bachelor of Science (Interior Design and Decoration) programme	A candidate shall be considered to have satisfied the requirement of attendance for a semester if he/she attends not less than 75% of the number of classes actually held up to the end of the semester in each of the subjects. There shall be no minimum attendance requirement for the Co-curricular and extension activities. However, the shortage of attendance of students whose attendance is 70% and above but below 75% may be condoned by the University by following the rules prescribed for combination.	DM Regu. 8
4.2		Must have kept 75% attendance for All Semesters of the Bachelor of Science(Interior Design and Decoration) degree programme affiliated to the University of Mysore	-----Removed-----	
4.3		-	If a candidate represents his/her institution / University/ Karnataka State/ Nation in Sports / NCC / NSS / Cultural or any officially sponsored activities he/she may be permitted to claim attendance for actual number of days participated, based on the recommendation of the Head of the Institution concerned. If a candidate is selected to participate in national level events such as Republic Day Parade etc., he/she may be permitted to claim attendance for actual number of days participated based on the recommendation of the head of the Institution concerned.	DM Regu. 8 New Addition

4.4		-	A candidate who does not satisfy the requirement of attendance in one or more courses/ subjects shall not be permitted to take the University examination of those courses/ subjects and the candidate shall seek re-admission to those courses/ subjects in a subsequent year.	DM Regu. 8 New Addition
5.0	Continuous Assessment			
5.1		Assessment and evaluation processes happen in a continuous mode. However, for the purposes of reporting, a semester is divided into three discrete components identified as C1, C2 and C3 . The performance of a student will be assessed as explained below:	-----Same-----	
5.2		The outline for continuous assessment activities for C1 and C2 will be proposed by the Board of Studies (BOS) based on test/assessment/ /viva-voce/ seminar/ any other.	-----Same-----	
5.3		The first component C1, of assessment is for 25%.During the first half of the semester, the first 50% of the syllabus should be completed. This should be completed by the 8th Week of the semester.	The first component C1, of assessment is for 20% (Theory subjects) and 25% (Studio/practical subjects). During the first half of the semester, the first 50% of the syllabus should be completed. This should be completed by the 8th Week of the semester.	DM Regu. 12
5.4		The second component C2, of assessment is for 25%. C2 will be based on the remaining 50% of the syllabus. C2 will be completed during the 15th Week of the semester.	The second component C2, of assessment is for 20% (Theory subjects) and 25% (Studio/practical subjects). C2 will be based on the remaining 50% of the syllabus. C2 will be completed during the 15th Week of the semester.	- ‘ -
5.5		During the 18th -20th Week of the semester, a semester end examination shall be conducted by the University of Mysore for the course. This forms the final component of assessment (C3) for	During the 18th -20th Week of the semester, a semester end examination shall be conducted by the University of Mysore for the course. This forms the final component of assessment (C3) for	

		50%. The student has to apply for the C3 examination as per the notification by the University of Mysore.	60% (Theory subjects) and 50% (Studio/practical subjects). The student has to apply for the C3 examination as per the notification by the University of Mysore.	- ‘ -
5.6		The BOS will decide the scheme of valuation for the C3 component of the Practical.	-----Same-----	
5.7		Project work shall be evaluated as per the scheme recommended by the BOS. C1 and C2 components of the project shall be evaluated by the Project Supervisor for 25 marks each. C3 components of the project work shall be evaluated jointly by the Project Supervisor and one External Examiner for 50 marks.	Project work shall be evaluated as per the scheme recommended by the BOS. C1 and C2 components of the project shall be evaluated by the Project Supervisor for 25 % marks each. C3 components of the project work shall be evaluated jointly by the Project Supervisor and one External Examiner for 50 % marks.	- ‘ -
6.0	Evaluation for C1 and C2			
6.1		Students will be evaluated for each course by the teacher(s) handling that course.	-----Same-----	
6.2		Students will be evaluated on equal weightage on tests and assignments.	-----Same-----	
6.3		Students must obtain a minimum 40% aggregate of C1 and C2 to be eligible to attend C3 examination.	-----Same-----	
6.4		After the evaluation, the results have to be announced. The course teacher has to obtain signatures of the students registered for the course in a register maintained specifically for the purpose, indicating that they have no objection to the marks awarded within 5 days from the date of announcement of the marks.	-----Same-----	
6.5		In case a student is not satisfied with the assessment, the student can make an appeal to the	-----Same-----	

		Grievance Cell within 5 days from the date of announcement of the results. Otherwise it is presumed that the student has no objection to the marks awarded.		
6.6		The student can appeal to the Grievance Cell by paying the prescribed fee as fixed by the University. The Grievance Cell is empowered to take corrective measures.	-----Same-----	
6.7		The concerned course teacher has to provide all the relevant documents to the Grievance Cell. The decision taken by the Grievance Cell is final.	-----Same-----	
7.0	Examination and Evaluation for C3			
7.1		If a paper has both Lecture (L) and Practical (P) components, then:	-----Same-----	
7.2		C3 exam should be conducted for 50 marks each.	C3 exam should be conducted for 60 marks each for theory subjects C3 exam should be conducted for 50 marks each for Studio/practical subjects	
7.3		If the credit is less than 3, then the C3 exam will not be conducted.	-----Same-----	
8.0	Question paper setting			
8.1		The question paper pattern for C3 component of each course shall be prepared by the respective Boards of Studies. Each subject shall have a Board of Examiners which shall prepare, scrutinize, and approve.	-----Same-----	
8.2		The question papers for all the courses of that subject.	-----Same-----	
9.0	Valuation			

9.1		Before the valuation the answer scripts shall be coded.	-----Same-----	
9.2		There shall be centralized, single valuation of the C3 theory answer scripts.	-----Same-----	
9.3		C3 component of the Practical's will be conducted with two examiners of whom at least, one is an external examiner.	-----Same-----	
9.4		Any examiner on the approved panel of examiners of the University not belonging to the parent college is an external examiner.	-----Same-----	
9.5		Project shall be evaluated as per the scheme recommended by the relevant Board of Studies. C1 and C2 components of the project shall be evaluated by the project supervisor for 25 marks each. C3 components of the project shall be evaluated jointly by the project supervisor and one external examiner for 150 marks.	Project shall be evaluated as per the scheme recommended by the relevant Board of Studies. C1 and C2 components of the project shall be evaluated by the project supervisor for 25% each. C3 components of the project shall be evaluated jointly by the project supervisor and one external examiner for 50%.	
9.6		Awarding the grades should be completed latest by the 26th week of the semester.	-----Same-----	
10.0	Vertical Progression			
10.1		Students should not have more than 5 subjects as backlog before getting into next academic year.	-----Same-----	
10.2		Students should have passed all the heads of 1st and 2nd Semester in order to enter 5th	-----Same-----	

		Semester.		
10.3		The maximum time to complete the course is 6 years (twice the duration of the course)	-----Same-----	
11.0	Photocopy, Re-totaling, and Revaluation			
11.1		A student can avail the following services by paying the prescribed fees to the University within 15 days from the date of announcement of the results:	-----Same-----	
11.2		Photocopy of the answer script (C3)	-----Same-----	
11.3		Viewing and Re-totaling	-----Same-----	
11.4		Revaluation	-----Same-----	
11.5		There shall be no provision for only seeing the answer script of C3.	-----Same-----	
11.6		The Re-totaling shall provide for checking whether all the answers have been valued, and the totaling is correct.	-----Same-----	
11.7		In case any answer or part thereof has not been valued, that part may be referred to another value and marks so awarded shall be added to the total.	-----Same-----	
11.8		In case there is a mistake in totaling or carryover of marks from the inside sheets to the facing sheet, the Registrar (Evaluation) shall have it corrected with the approval of the Vice Chancellor of the University.	-----Same-----	
11.9		The result of Re-totaling shall be announced within five days from the date of applying for same	-----Same-----	

		the same.		
11.10		The result of the revaluation shall be announced within twenty days from the last date for the receipt of the application.	-----Same-----	
11.11		Revaluation shall be carried out by an examiner from the University who has not valued that particular script.	-----Same-----	
11.12		The difference between the original marks and the revaluation marks does not exceed 15 percent of the maximum marks prescribed for that theory paper, the average of the two will be the final award of marks.	-----Same-----	
11.13		If the difference between the original marks and the re-valued marks is more than 15 percent of the maximum prescribed for that theory paper, such scripts shall be valued by an external examiner outside the University. The average of the nearest two shall be the final award of marks.	-----Same-----	
11.14		In case one or more answers are not valued by the original examiner, then the marks awarded by the subsequent examiner as far as these answers are concerned shall be taken as they are, without averaging with the marks other answers.	-----Same-----	
11.15		In cases where there is a difference between the original marks, first revaluation marks or/and the second revaluation marks clearly indicating that a particular examiner has been erratic in his/her valuation, then such cases shall be referred to the Malpractice and Lapses Inquiry Committee to establish whether or not any punitive measures need to be taken.	-----Same-----	

11.16		There will be no revaluation for Viva – voce exam of C3	-----Same-----	
11.17		There is a complaint of unfair valuation of answer scripts for a group of students, the Vice-Chancellor may, after a preliminary inquiry, order for revaluation of the concerned group of or entire set of students in the paper concerned. After such revaluation, a random sample of 10% of the answer scripts, subject to a minimum of ten, shall be referred for review.	-----Same-----	
12.0	Passing Criteria			
12.1		A student is considered to have passed the course, only on securing a minimum of 50% from C1, C2 and C3 put together.	A student is considered to have passed the course, only on securing a minimum of 40% from C1, C2 and C3 put together.	DM Regu. 14.b
12.2		In case a student secures less than 35% in C3 or absence for C3, the student is said to have not completed the course. The student shall complete the course by re-appearing only for the C3 component of that course when the University conducts the examination. The student carries the marks already awarded in C1 and C2.	-----Same-----	
12.3		On successful completion of UG program, a final grade card consisting of grades of all courses successfully completed by the student will be issued by the University.	A student is issued semester grade card by the University after every semester examination. On successful completion of UG program, a consolidated grade card consisting of grades of all courses successfully completed by the student will be issued by the University.	
12.4	Lateral Exit		At the end of First Year upon successful completion of Semester I and II , students will be awarded Certificate (Interior Design) with a minimum of 48 credits	New Addition (As per NEP)
12.5			At the end of Second Year upon successful completion of Semester-III and IV students will be	New Addition

			awarded Diploma (Interior Design) with a minimum of 96 credits	(As per NEP)
12.6	Award of Degree		<p>At the end of Third Year upon successful completion of Semester V and VI students will be awarded Bachelor of Science (Interior Design and Built Environment) – 144 credits</p> <p>At the end of Fourth Year upon successful completion of Semester VII and VIII students will be awarded Bachelor of Science with Honors (Interior Design and Built Environment) – 186 credits</p>	- ‘ -
13.0	Makeup Examination			
13.1		For students who could not attend C1 or C2 due to medical reasons/extraordinary circumstances/participation in Sports/NCC/NSS or any other extra-curricular activities (approved by the College), C1 and C2 exams will have to be conducted for them separately	-----Same-----	
13.2		Makeup examination (only for C3) shall be conducted by the University within 15 days from the date of notification or results. This shall be only for those students who do not fulfill the passing criteria specified earlier.	-----Removed-----	
13.3		If a candidate fails to secure 40% in C1 and C2 then he/she has to apply for betterment of IA in the consecutive semester and then take up C3 for the particular subject.	If a candidate fails to secure 40% in C1 and C2 then he/she has to apply for betterment of IA in the consecutive semester and then take up C3 for the particular subject when it is offered next.	
14.0	Percentage, and Grading			
14.1		If P is the percentage of the marks secured by a	An alpha-sign grade, the eight point grading	DM

	<p>candidate in a course (C1+C2+C3) which is rounded to the nearest integer, the grade, G earned by the student in that course will be as given below.</p> <table><tr><th>Percentage(P)</th><th>Grade (G)</th><th>Percentage(P)</th><th>Grade (G)</th></tr><tr><td>40-49</td><td>5.0</td><td>75-79</td><td>8.0</td></tr><tr><td>50-59</td><td>6.0</td><td>80-84</td><td>8.5</td></tr><tr><td>60-64</td><td>6.5</td><td>85-89</td><td>9.0</td></tr><tr><td>65-69</td><td>7.0</td><td>90-94</td><td>9.5</td></tr><tr><td>70-74</td><td>7.5</td><td>95-100</td><td>10.0</td></tr></table>	Percentage(P)	Grade (G)	Percentage(P)	Grade (G)	40-49	5.0	75-79	8.0	50-59	6.0	80-84	8.5	60-64	6.5	85-89	9.0	65-69	7.0	90-94	9.5	70-74	7.5	95-100	10.0	<p>system, as described below may be adopted. The declaration of result is based on the Semester Grade Point Average (SGPA) earned towards the end of each semester or the Cumulative Grade Point Average (CGPA) earned towards the completion of all the eight semesters of the programme and the corresponding overall alpha-sign grades. If some candidates exit at the completion of first, second or third year of the four years Undergraduate Programmes, with Certificate, Diploma or the Basic Degree, respectively, then the results of successful candidates at the end of second, fourth or sixth semesters shall also be classified on the basis of the Cumulative Grade Point Average (CGPA) obtained in the two, four, six or eight semesters, respectively. for award of certificate/Diploma/ Bachelor /Bachelor with Honours</p> <table><tr><th>Semester/ Program % of Marks</th><th>Semester GPA/ Program CGPA</th><th>Alpha-Sign / Letter Grade</th><th>Result / Class Description</th></tr><tr><td>90.0-100</td><td>9.00-10.00</td><td>O (Outstanding)</td><td>Outstanding</td></tr><tr><td>80.0-<90.0</td><td>8.0-<9.0</td><td>A+ (Excellent)</td><td>First Class Exemplary</td></tr><tr><td>70.0-<80.0</td><td>7.0-<8.0</td><td>A (Very Good)</td><td>First Class Distinction</td></tr><tr><td>60.0-<70.0</td><td>6.0-<7.0</td><td>B+ (Good)</td><td>First Class</td></tr><tr><td>55.0-<60.0</td><td>5.5-<6.0</td><td>B (Above Average)</td><td>High Second Class</td></tr></table>	Semester/ Program % of Marks	Semester GPA/ Program CGPA	Alpha-Sign / Letter Grade	Result / Class Description	90.0-100	9.00-10.00	O (Outstanding)	Outstanding	80.0-<90.0	8.0-<9.0	A+ (Excellent)	First Class Exemplary	70.0-<80.0	7.0-<8.0	A (Very Good)	First Class Distinction	60.0-<70.0	6.0-<7.0	B+ (Good)	First Class	55.0-<60.0	5.5-<6.0	B (Above Average)	High Second Class	Regu. 16.0
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90.0-100	9.00-10.00	O (Outstanding)	Outstanding																																																
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55.0-<60.0	5.5-<6.0	B (Above Average)	High Second Class																																																

			<table><tr><td>50.0-<55.0</td><td>5.0-<5.5</td><td>C (Average)</td><td>Second Class</td></tr><tr><td>40.0-<50.0</td><td>4.0-<5.0</td><td>P (Pass)</td><td>Pass Class</td></tr><tr><td>Below 40</td><td>Below 4.0</td><td>F (Fail)</td><td>Fail/ Reappear</td></tr><tr><td>Absent</td><td>0</td><td>Ab (Absent)</td><td></td></tr></table>	50.0-<55.0	5.0-<5.5	C (Average)	Second Class	40.0-<50.0	4.0-<5.0	P (Pass)	Pass Class	Below 40	Below 4.0	F (Fail)	Fail/ Reappear	Absent	0	Ab (Absent)		
50.0-<55.0	5.0-<5.5	C (Average)	Second Class																	
40.0-<50.0	4.0-<5.0	P (Pass)	Pass Class																	
Below 40	Below 4.0	F (Fail)	Fail/ Reappear																	
Absent	0	Ab (Absent)																		
14.2		The overall percentage in a subject is 10 x SGPA.	Calculation of Semester Grade Point Average (SGPA): The Grade Points (GP) in a course shall be assigned on the basis of marks scored in that course as per the Table I. Any fraction of mark in the borderline less than 0.50 be ignored in assigning GP and the fractions of 0.50 or more be rounded off to the next integers. The Credit Points (CP) shall then be calculated as the product of the grade points earned and the credits for the course. The total CP for a semester is the sum of CP of all the courses of the semester. The SGPA for a semester is computed by dividing the total CP of all the courses by the total credits of the semester. It is illustrated below with typical examples.	DM Regu. 16.0																
14.3		The overall percentage in a program is 10 x CGPA.	Calculation of Aggregate or Cumulative GPA (CGPA): The aggregate or cumulative SGPA (CGPA) at the end of the second, fourth, sixth, eighth and tenth semesters shall be calculated as the weighted average of the semester grade point averages. The CGPA is calculated taking into account all the courses undergone over all the semesters of a programme, i.e. The CGPA is obtained by dividing the total of semester credit weightages by the maximum credits for the programme. $CGPA = \Sigma(C_i \times G_i) / \Sigma C_i$	DM Regu. 16.0																

			where Gi is the grade point of the ith course/ paper and Ci is the total number of credits for that course/ paper. CGPA = $\Sigma(C_i \times S_i) / \Sigma C_i$ where Si is the SGPA of the ith semester and Ci is the total number of credits in that semester. An illustration is given below.									
15.0	Class Declarations											
15.1		The final Qualitative Index to be awarded to the student is based on CGPA. It is given as: <table><tr><td>CGPA</td><td>Qualitative index</td></tr><tr><td>5≤ CGPA ≤6</td><td>Second class</td></tr><tr><td>6≤ CGPA ≤8</td><td>First class</td></tr><tr><td>8≤ CGPA ≤10</td><td>Distinction</td></tr></table>	CGPA	Qualitative index	5≤ CGPA ≤6	Second class	6≤ CGPA ≤8	First class	8≤ CGPA ≤10	Distinction	-----proposed as in 14.0 -----	DM Regu. 16.0
CGPA	Qualitative index											
5≤ CGPA ≤6	Second class											
6≤ CGPA ≤8	First class											
8≤ CGPA ≤10	Distinction											
16.0	Nodal Officer, Subject Coordinator and Student Advisor											
16.1		College shall nominate a Faculty Member as CBCS Nodal Officer who will act as a liaison with the University and facilitate the implementation of the program.	-----Same-----									
16.2		The Head of the Department shall be the Subject Coordinator. He/ She is responsible for the Student Advisor's work and student support services.	-----Same-----									
16.3		Every student will have a member of faculty of the Department as Student Advisor. All teachers of the department shall function as Student Advisors and will have more or less equal number of students.	-----Same-----									

		The Student Advisor will advise the students in choosing elective courses and offer them all possible assistance.		
17.0	Grievance Cell			
17.1		For the UG program there will be one Grievance Cell comprising of members as follows:	-----Same-----	
17.2		The Principal (or his/her representative) .	-----Same-----	
17.3		The Heads of the Departments.	-----Same-----	
17.4		One senior faculty member from each Department.	-----Same-----	
18.0	Conduct			
18.1		Every student is required to observe discipline and decorum both inside and outside the campus in accordance with the instructions of the college and also as per the instructions issued by the University of Mysore / Government of Karnataka / UGC from time to time regarding Student Conduct Rules.	-----Same-----	
19.0	Others			
19.1		Any issue not specifically mentioned in these regulations shall be decided by the Vice-Chancellor in consultation with the appropriate bodies of the University.	-----Same-----	
20.0	Nature of the Course			
20.1		The pattern of the courses is as under:-	-----Same-----	

20.2		Medium of instruction shall be English.	-----Same-----	
20.3		Total credits will be as per 3.2.	-----Same-----	
20.4		All vocational subjects are treated as Hard-core subjects in the course.	-----Same-----	
20.5		If a candidate fails in a semester he/she will get supplementary chances to write only failed papers as per the regulations stipulated By the University of Mysore.	-----Same-----	
21.0	Program Structure and Syllabus			
21.1		The following are the definitions governing this document:	-----Same-----	
21.2		"Discipline Specific Course" (DSC) is a core course which should be compulsorily studied by a student as a core requirement of the Program.	-----Same-----	
21.3		Ability Enhancement Courses are of two types viz.,(1) "Ability Enhancement Compulsory Course" (AECC) and (2) "Skill Enhancement Course" (SEC) . AECC is a mandatory course based upon the content that leads to knowledge enhancement viz., Indian Constitution, Environmental Studies, Functional English and Modern Indian Languages (MIL). SEC courses are aimed at providing hands-on training, competencies, skills, etc.	-----Same-----	
21.4		"Discipline-specific Elective Course" (DEC) is a course which can be chosen from a pool of courses. It may be very specific or specialized or supportive to the subject of study or which enables an exposure to some other discipline/subject/domain or nurtures the	-----Same-----	

		student's proficiency/ skill.		
21.5		"Grade" is a score assigned to the percentage of marks awarded in a course.	-----Same-----	
21.6		"Grade Point Average" (GPA) refers to the performance of the student in a given semester. GPA is the ratio of the total grade points earned by the student in all the courses to the total number of credits assigned to the courses in a given semester.	-----Same-----	
21.7		"Subject Grade Point Average" (SGPA) refers to the ratio of the total credit points earned by the student in all the courses of all the semesters of a single subject to the total number of credits assigned to the courses of all the semesters of that subject.	-----Same-----	
22.0	Subjective regulations:			
22.1		Under AECC a candidate has to study Functional English and additionally choose any ONE of the MIL viz., Kannada, Tamil, Telugu, Malayalam and Hindi.	The students who have studied Kannada at the school and/or Pre-University or equivalent level, shall opt Kannada as one of the languages and study it in the first four semesters of the programmes. Students who have not studied Kannada at any level from school to Pre-University level shall study Kannada as functional language in one of the first two semesters along with another language of their choice. They shall study any two languages of their choice in the remaining three semesters. They may change the languages every year.	DM Regu. 7.2
22.2		Change of languages once chosen will not be permitted during the period of the program.	-----Removed-----	

22.3		In the case of foreign nationals, the requirement of an Indian language may be waived by the University of Mysore. In such an eventuality, the University may permit the foreign national student for private study of choice of any one foreign language. Such a student will not be evaluated for C1 and C2 Marks. However, for the final grade calculation of 50 marks of C3 will be equated to 100 marks.	In addition to Kannada, the students shall opt for another language from the languages offered in the university/ college and study it in the first two semesters of the programmes. They may continue to study the same language in the second year or may choose different language in the second year.	DM Regu. 7.2
22.4			Speech/hearing/visually impaired/mentally challenged and study disabled students are exempted from studying one of the languages prescribed under para 22.1 & 22.3 above.	DM Regu. 7.2
23.0	Extra-curricular Activities			
23.1		Students are encouraged to participate in India's national MOOC Platform SWAYAM (Study Webs of Active-learning for Young Aspiring Minds) along with the Semesters. The Platform allows students to earn academic credit online. For details refer to portal: www.swayam.gov.in .	-----Same-----	

BSc.(Hons.) Interior Design & Built Environment

Proposed Scheme

I Semester	Subject Category	Particulars	Theory/Practical	Instructions Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
						IA	Exam	Total	
	AECC	Language I	Theory	3	3	40	60	100	3
	AECC	Language II	Theory	3	3	40	60	100	3
	DSC	Design Studio-1	Practical	5	Viva	50	50	100	5
	DSC	Building Materials and Construction-1	Theory/Practical	5	Viva	50	50	100	3
	DSC	Graphics	Practical	4	3	40	60	100	3
	DSC	History of Interior Design	Theory	3	3	40	60	100	3
	SEC	Model Making Workshop	Practical	3		100		100	2
	SEC	NSS	Practical	2		50		50	1
	SEC	Yoga/ Sports and Games	Practical	2	-	50	-	50	1
			Total	30		800			24

II Semester	Subject Code	Particulars	Theory/Practical	Instructions Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
						IA	Exam	Total	
	AECC	Language-1	Theory	3	3	30	70	100	3
	AECC	Language-2	Theory	3	3	30	70	100	3
	SEC	Computer application-1	Practical	4	3	100		100	2
	DSC	Design Studio-2	Practical	6	Viva	50	50	100	5
	DSC	Building Services & Structures -1	Theory	3	3	40	60	100	3
	DSC	Building Science (Climatology)	Theory	3	3	40	60	100	3
	DSC	Contemporary Interior Design	Theory	3	3	40	60	100	3
	SEC	Field studies	Practical	2		50		50	1
	SEC	Sports and Games	Practical	2		50		50	1
			Total	29		800			24

Certificate at the successful completion of First Year (Two Semester)of Four years Multidisciplinary UG Degree programme (**48 Credits**)

	Subject Code	Particulars	Theory/Practical	Instructions Hrs/Week	Duration of Exam (Hrs)	Marks			Credits
V Semester						IA	Exam	Total	
	SEC	Carpentry & Furniture Design	Practical	4		100		100	2
	DSC	Interior Design Studio-3	Practical	8	Viva	50	50	100	6
	DSC	Building Materials and Construction-3	Theory/Practical	5	Viva	50	50	100	3
	DSC	Interior working drawing and Detailing (4)	Practical	5	Viva	50	50	100	4
	DSE	Elective-3	Theory	3		100		100	2
	DSC	Interior Landscape	Theory	3	3	40	60	100	3
	PW	Internship (5weeks)	Practical		Viva	50	50	100	3
	SEC	Small project work	Practical	2		50		50	1
	SEC	Sports and Games	Practical	2		50		50	1
			Total	30		800			25

	Subject Code	Particulars	Theory/Practical	Instructions Hrs/week	Duration of Exam (Hrs)	Marks			Credits
VI Semester						IA	Exam	Total	
	DSC	Project work	Practical	8	Viva	100	100	200	8
	DSC	Building Services -3	Theory	3	3	40	60	100	3
	DSC	Specification, Estimation, Costing & Professional Practice & Ethics	Theory	4	3	40	60	100	3
	DSE	Elective-4	Theory	3		100		100	2
	DSC	Project Management	Theory	3	3	40	60	100	3
	SEC	Publication of articles in newspapers, magazines	Theory	3	3	50		50	1
	SEC	Sports and Games	Practical	2		50		50	1
			Total	26		700			21

Basic Bachelor Degree at the successful completion of Third Year (Six Semesters)of Four years Multidisciplinary UG Degree programme (144 **Credits**)

VII Semester	Subject Code	Particulars	Theory/Practical	Instructions Hrs/week	Duration of Exam (Hrs)	Marks			Credits
						IA	Exam	Total	
	DSC	Internship (16 weeks)	Practical	25	Viva	100	100	200	14
	DSE	Elective-5	Theory	3		100		100	2
	DSC	Research Methodology	Theory	3	3	40	60	100	3
	OE	Open Elective-1	Theory	2		100		100	2
			Total	33		500			21
Semester VIII	Subject Code	Particulars	Theory/Practical	Instructions Hrs/week	Duration of Exam (Hrs)	Marks			Credits
						IA	Exam	Total	
	DSC	Design Studio with Simulation	Theory/Practical	18	Viva	100	100	200	10
	DSC	Advanced Materials & Techniques	Theory	3	3	40	60	100	3
		Energy conservation building code for Interior (ECBC)	Theory	3	3	40	60	100	3
	DSC OE	Entrepreneurship	Theory	3	3	40	60	100	3
		Open Elective-2	Theory	2		100		100	2
			Total	29		600			21
	Bachelor degree with Honors in Interior Design & built Environment at the successful completion of Four Years (Eight Semesters) Multidisciplinary UG Degree Programme (188 Credits)								

UNIVERSITY OF MYSORE

MYSORE SCHOOL OF DESIGN

B.Sc. (Hons.)
Interior Design & Built Environment

Proposed
Detailed Syllabus of I to VIII Semesters
As per NEP 2020

SEMESTER-I

LANGUAGE I		
Subject Category: AECC	Subject Code: 22IDBE11	Total: 100 = Continuous Internal Evaluation: 40 + Semester End Examination: 60
Credits: 03	L:P:T: :3:0:0	SEE: 03 hours

- As per UOM syllabus for Undergraduate Degree Courses

LANGUAGE II		
Subject Category: AECC	Subject Code: 22IDBE12	Total: 100 = Continuous Internal Evaluation: 40 + Semester End Examination: 60
Credits: 03	L:P:T: :3:0:0	SEE: 03 hours

- As per UOM syllabus for Undergraduate Degree Courses

DESIGN STUDIO-1		
Subject Category: DSC	Subject Code: 22IDBE13	Total: 100 = Continuous Internal Evaluation: 50 + Semester End Examination: 50
Credits: 05	L:P:T: :0:5:0	SEE: Viva-voce

Objectives:

- To encourage a critical orientation to design thinking and action.

Outline:

Module- 1:

Observation & Study to develop hand & cognitive skill - Colours, Pattern & textures, and function - Additive and Subtractive of Forms - Freehand sketching - Exercises of rendering techniques.

Module- 2:

Principles of Composition: Elements of Design & Principles of Design. Principles of Aesthetics and Composition – Unity, Balance, Proportion, Scale.

Module- 3:

Study of pattern: Natural, Manmade and Geometric patterns - Recognizing patterns, analyzing ideas, creating things involving the process of abstraction - Appreciation of use of patterns in design - Space making through patterns

Module- 4

Study of Art Forms & Crafts of India and Asia - Difference between art and craft - Art Styles of India - folk, popular and modern art - Art trends. Explore any Indian art form and regional craft - Exercise inspired by Indian arts and crafts.

Module- 5

Appreciation of Oriental, Western and Indian performing arts. Exercises to design apparel, accessories, and props.

References:

1. Donald Norman, 'Design of Everyday Things', Basic Books; 2 edition
2. John Berger, 'Ways of Seeing' 1972, Penguin, UK
3. Maitland Graves, 'The Art of Color and Design', McGraw-Hill, 1951

4. Robert Gill, "Rendering with Pen and Ink", Thames & Hudson; Revised, Enlarged edition (2 April 1984)
5. Abid Husain, "National culture of India", National Book Trust, India, 1994
6. Antony Mason, John T. Spike, "A History of Western Art: from prehistory to the 21st Century", McRae Books, 2007.
7. Arthur Llewellyn Basham, 'The Wonder That Was India', Picador; Indian edition, 2004
8. Christopher Alexander, "The Timeless way of Building" , Oxford University Press (1979)
9. Francis D.K. Ching, " Architecture: form, space & order", John Wiley & Sons, 2010
10. Fred S. Kleiner, "Art through the Ages", Cengage Learning; 14 edition, 2012

BUILDING MATERIAL AND CONSTRUCTION - 1		
Subject Category: DSC	Subject Code: 22IDBE14	Total: 100 = Continuous Internal Evaluation: 50 + Semester End Examination: 50
Credits: 03	L:P:T:: 2:3:0	SEE: Viva-voce

Objectives:

- To know the Basic materials used in construction.
- To understand the methods of interior construction techniques.

Outline:

Module- 1

Lime, cement, mortar, concrete and Surkhi – Introduction, Properties, Types and Applications

Module- 2

Elements of Building – Terminology, Nomenclature of various parts of building from Foundation to roof. Sill Lintels and Chajjas– Introduction, types and application Terminology, Different Types of Sills, lintels chajjas based on material and use. Types of bricks – traditional, wire cut, molded bricks and its sizes, Different types of bonds, Bricks in interiors, Corbelling, coping, string courses, Brick Jails

Module- 3

Timber and Hardware: Classification, characteristics, defects, preservation.

Introduction to wood products as building material :Plywood ,block board, particle board, hard board, Laminates, MDF, HDPE, Wood etc. Elementary carpentry, common joints, Details of framed ledged, braced and battens doors and Windows. Hinges, handles, knobs, bolts, locks, stoppers, closers, etc., in various materials.

Module- 4

Paneling: Introduction, types and application. Load bearing and non-loadbearing walls, wooden partition – its construction details.

Terminology, paneling methods with use of materials e.g. Timber and variety of timber products.

Module- 5

Stone masonry- – Introduction, Properties and applications. Types of stones, dressing of stones, finishes, its application in interiors. Random course and Ashlar Stone work for interiors.

References:

1. McKay, W.B., "Building Construction Volume I, II, III and IV", Longmans, 1955.
2. Ching, Francis D. K. and Adams, Cassandra, "Building Construction Illustrated", Wiley and Sons, 2000.

3. Barry, The Construction of Buildings –Volume I, II, III and IV
4. Chudley, Roy, “Construction Technology”, Longman, 2005.
5. Mitchell, Building Construction_ (Elementary and Advanced)
6. Rangwala, S. C., “Building Construction”, Charotar Publishing House, 2007
7. Bindra&Arora, Building Construction
8. Punmia B. C., Jain A. J., and Jain A.J., Building Construction, Laxmi Publications, 2005.
9. SC Rangwala, Building Materials by: Charotar Pub. House, Anand
10. M. Gambhir, NehaJamwal, Building Materials Products, Properties and Systems, Tata McGraw Hill 11. Publishers, New Delhi, 2011.
11. R.K.Gupta, Civil Engineering Materials and Construction Practices, Jain brothers, New Delhi, 2009.
13. National Building Code of India (Latest Edition), Bureau of Indian Standards.

GRAPHICS		
Subject Category: DSC	Subject Code: 22IDBE15	Total: 100 = Continuous Internal Evaluation: 40 + Semester End Examination: 60
Credits: 03	L:P:T:: 0:4:0	SEE: 03 hours

Objective:

- Introduction to the various techniques of graphic representations
- Introduction to the manual drafting to work on the drawing methods using the instruments and freehand
- To development of graphic skills and material indication
- To develop visual communication and methods of presentation of spatial design through 3D drawing techniques

Outline:

Module- 1: Introduction to the various graphic representations:

Basic principles and methods of drawing, methods of drawings, methods of using instruments and sign conventions

- Exercises in line weightage
- Exercises in drafting and free hand drawing
- Free-hand perspective drawings of interior elements and built forms –
- Exercises of rendering techniques showing light and shade and shadow on built forms
- Rendering of plants, trees, water, landscape, furniture

Module- 2: Practice in Lettering

Lettering used in architectural drawings

Module- 3: Introduction to scales and its application to architectural drawing

Exercise in measure drawing

Module- 4: Introduction to orthographic projections

Principles of orthographic projections, projection of points, lines and planes in different positions

Module- 5

3D Projections-I-Isometric and Axonometric views of solids and built forms

3D Projection-II-3D representation of exploded isometric and axonometric views of objects, furniture and built forms

Note: A consolidated portfolio containing exercises related to each of the above topics are to be submitted at the end of term.

References:

1. Francis D.K.Ching, “ Architectural Graphics”, Van Nostrand Reinhold Co., 1985
2. I.H. Morris, “Geometrical Drawing for Art Students”, Longmans (1902)

HISTORY OF INTERIOR DESIGN		
Subject Category: DSC	Subject Code: 22IDBE16	Total: 100 = Continuous Internal Evaluation: 40 + Semester End Examination: 60
Credits: 03	L:P:T:: 3:0:0	SEE: 03 hours

Objective:

- To understand the evolution of art in interiors during the prehistoric period
- To understand the different traditional contemporary art form with different tools and techniques

Outline:

Module- 1 Introduction to Interior Design

Definition of interior design, Introduction to the design of interior spaces as related to typologies and functions, themes and concepts - Study and design.

Module- 2 History of Interior Design

Brief study of the history of interior architectural design through the ages relating to historical context, design movements and ideas etc. Brief study of folk arts and crafts.

Module- 3 Study of Ornaments Accessories

Different types of Ornamentation & Accessories in the interiors. Study and evaluation of artefacts, historic examples and their applicability.

Module- 4 History of Furniture in the Ancient World

Greek furniture, influence, its importance and types, Roman furniture forms, Romanesque furniture, Gothic style of early medieval period, Ancient Egyptian furniture and its characteristics and materials.

Module- 5 History of Indian Interiors

Heritage Interiors Buddhist, Islamic and Hindu: Evolution of Interiors in different regions of India with examples. Heritage and identity at different spatial scales.

References:

1. Henry Wilson, India: Decoration, Interiors, Design, Watson Guptill, First American edition, 2001
2. Michael Freeman, India Modern, Periplus editions, 2005
3. Niggel Rapport, Social and Cultural Anthropology: The Key Concepts, Routledge, 2000
4. Elizabeth. D. Hutchinson, Sage publications, Dimensions of Human Behavior, person and Environment, 2007.
5. Kumar Raj (Ed) Essays on Indian Art and Architecture. Discovery pub., New Delhi, 2003.

6. Christine M. Piotrowski, *Becoming an Interior Designer*, John Wiley and Sons, 2003.

MODEL MAKING WORKSHOP		
Subject Category: SEC	Subject Code: 22IDBE17	Total: 100 = Continuous Internal Evaluation: 100
Credits: 02	L:P:T: :0:3:0	SEE: NIL

Objective:

- To train the students to experiment and manipulate materials leading to creative exploration of forms.

Outline:

- Generation of basic forms-cube, cone, dome and arch.
- Generating of organic and geometrical forms/objects.
- Generation of forms & Material exploration: hands on skill by using wood, bamboo, metal wire, thread, balsa wood, cloth, paper board etc.
- Composite forms: Experimental form generation by combining various materials and shapes.
- Introduction to digital modelling like 3D printing and laser cutting.

Note: Student may be encouraged to use environment friendly materials.

Learning Outcome: At the end of the course the students would be able to use variety of materials to construct architectural models and different geometrical forms.

References:

1. Arjan Karssen & Bernard Otte, "Model Making: Conceive, Create and Convince", Frame Publishers (November 11, 2014)
2. David Neat, "Model-Making: Materials and Methods", CroWood Press, 2008
3. JocquiAtkin, "250 tips, techniques, and trade secrets for potters", Barron's Educational Series, 2009
4. Matt Driscoll, "Model Making for Architects", The Crowood Press Ltd, 2013
5. Megan Werner, "Model making", Princeton Archit.Press, 2010
6. Nick Dunn, "Architectural Model Making", Laurence King Publishing, 2014
7. Roark T. Congdon, "Architectural Model Building", Fairchild Books; 1 edition, 2010

NSS		
Subject Category: SEC	Subject Code: 22IDBE18	Total: 50 = Continuous Internal Evaluation: 50
Credits: 01	L:P:T: :0:2:0	SEE: NIL

- As per UOM syllabus for Undergraduate Degree Courses

YOGA/SPORTS & GAMES		
Subject Code: SEC	Subject Code: 22IDBE19	Total: 50 = Continuous Internal Evaluation: 50
Credits: 01	L:P:T: :0:2:0	SEE: NIL

- As per UOM syllabus for Undergraduate Degree Courses

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SEMESTER-II

LANGUAGE I		
Subject Category: AECC	Subject Code: 22IDBE21	Total: 100 = Continuous Internal Evaluation: 40 + Semester End Examination: 60
Credits: 03	L:P:T:: 3:0:0	SEE: 03 hours

- As per UOM syllabus for Undergraduate Degree Courses

LANGUAGE II		
Subject Category: AECC	Subject Code: 22IDBE22	Total: 100 = Continuous Internal Evaluation: 40 + Semester End Examination: 60
Credits: 03	L:P:T:: 3:0:0	SEE: 03 hours

- As per UOM syllabus for Undergraduate Degree Courses

COMPUTER APPLICATION-1		
Subject Category: SEC	Subject Code: 22IDBE23	Total: 100 = Continuous Internal Evaluation: 100
Credits: 02	L:P:T:: 0:4:0	SEE: NIL

Objective:

- To introduce the students with digital media to explore and develop the interior design ideas

Outline:

Module-1:

Introducing to 2D drafting software: Using latest version of relevant CAD software

Module- 2:

Graphic editing tools and commands, understanding the layers, paper space vs model space

Module- 3:

2D Drafting: plan, sections, elevations of the interior designing layout

Module- 4:

Introduction to Sketch-up Software

Module- 5:

Introduction to 3D modelling and generating the 3D models. Rendering and visualization of the materials on built form

Note: A portfolio of exercise and assignments done in the class to be submitted for progressive marks

References:

1. Website and training material of relevant image/graphics editing software
2. Vast amount of CAD learning resources available on the internet
3. Vast amount of learning resources for graphics editing tools available on the internet

DESIGN STUDIO 2		
Subject Category: DSC	Subject Code: 22IDBE24	Total: 100 = Continuous Internal Evaluation: 50 + Semester End Examination: 50
Credits: 05	L:P:T: :0:6:0	SEE: Viva-voce

Objectives:

- To develop the ability to generate simple architectural solutions with emphasis on anthropometrics, principles of design, function, movement, light, comfort, scale and context.

Outline:

Module- 1

Anthropometric requirements of space planning - Observation & Study of the relationship between human body and the built environment understanding usage and comfort - Human scale vs. scale of the built environment and monumental scale.

Module- 2

Spatial Context - open, closed, transition spaces, cultural context – inclusion, exclusion, spatial segregation - Mapping of one's journey from home to studio/of the campus/of a Neighborhood - Explore movement, circulation, landmarks and imagery. Explore representation, scale, orientation.

Module- 3

Presentation of case studies based on literature survey & field visit. Study models, Sketches and Drawings of study models - plans and sections (suitable scale) using a mono functional space.

Module- 4

Hands-on Design exercise – creation of a simple design exploring monofunctional spaces.

Module- 5

Generation of a design brief for a multifunctional program - generation of areas based on human activity and anthropometric data - Selection of a suitable site, Idea generation, design development, & design drawings.

References:

1. Anthony Di Mari and Nora Yoo, " Operative Design: A Catalogue of Spatial Verbs", 2012, BIS Publishers.
2. Anthony Di Mari, " Conditional Design: An Introduction to Elemental Architecture", 2014, 1st Edition, Thames & Hudson.
3. Debkumar Chakrabarti, " Indian Anthropometric Dimensions For Ergonomic Design Practice", 1997, National Institute of Design.
4. François Blanciak, " Siteless: 1001 Building Forms", 2008, MIT Press
5. Francis D K Ching, " Architecture: Form, Space, and Order", 4th Edition, Sep. 2014, John Wiley & Sons
6. John Hancock Callender, "Time-Saver Standards for Architectural Design Data", 1982, McGraw-Hill
7. Michael Pause and Roger H. Clark, " Precedents in Architecture: Analytic Diagrams, Formative Ideas, and Partis", Van Nostrand Reinhold, 1985
8. Paul Jacques Grillo, " Form, Function and Design", 1975, Dover Publications, New York

9. Paul Lewis, Marc Tsurumaki, David J. Lewis, "Manual of Section", Princeton Architectural Press, 2016
10. Robert W. Gill, "Rendering with Pen and Ink", Van Nostrand Reinhold (1 June 1984)

BUILDING SERVICES & STRUCTURES		
Subject Category: DSC	Subject Code: 22IDBE25	Total: 100 = Continuous Internal Evaluation: 40 + Semester End Examination: 60
Credits: 03	L:P:T:: 3:0:0	SEE: 03 hrs

Objective:

- To impart the knowledge and skills required for understanding the role of essential services of water supply and sanitation and basic understanding of structure in a building.

Outline:

Module 1:

Introduction to environment and health aspects, Hygiene Cleanliness, Waterborne, Water-related/based diseases, Water carriage system, Source of water supply, Quality and Quantity of water supply, Requirement of water supply, Treatment of water, Storage and pumping of water, Fittings and Fixtures.

Module 2:

Introduction to Sewerage system, collection of sewage / wastewater from sources, conveyance of sewage - Traps & types of traps, Chamber, Manhole, Material of construction of sewerage network - PVC, UPVC, HDPE etc, Sanitary fixtures and fittings, sewage treatment and STP.

Module 3:

Plumbing and Water supply, Piping in different aspects, Drainage & Traps, Control valves, Cold & Hot water system network, Plumbing fixtures and fittings, Rain water harvesting.

Module- 4

Introduction to built elements – study of built elements in the interiors with respect to materials used. Basic construction methods and general specifications. General types and classification of different types of buildings: overview of different functional, structural, and architectural elements.

Module- 5

Introduction to basic structural systems, elements of structure, their functions and behavior, beams, slabs, columns, walls, foundations and bearing wall systems for various loads, effect of simple geometric forms in the overall structural behavior.

References:

1. Deshpande RS. A Text Book of Sanitary Engineering Vol:1
2. Birdie G.S. and Birdie J.S. Water supply and Sanitary Engineering
3. Rowland J. Mainstone : Development of Structural Form
4. Rangwala : Engineering Materials
5. S.P.Bindra, S.P.Arora, Building Construction
6. B.C. Punmia : Strength of Materials vol - I

BUILDING SCIENCE (CLIMATOLOGY)		
Subject Category: DSC	Subject Code: 22IDBE26	Total: 100 = Continuous Internal Evaluation: 40 + Semester End Examination: 60
Credits: 03	L:P:T: :3:0:0	SEE: 03 hrs

Objectives:

- To develop the knowledge required for understanding the influence of Climate on architecture including the environmental processes which affect buildings, such as thermal, lighting, etc. Similarly,
- To develop the understanding of how construction activities influence and impact the micro-macro climate.

Outline:

Module- 1: Climate and Human Comfort

Climate and Civilization. Factors that determine climate of a place. Components of climate. Classification of climate for building designers in tropics. Characteristics of climate. Human body heat balance and heat loss. Effects of climatic factors on human body heat loss. Effective temperature, human thermal comfort. Use of C. Mahony's tables. Exercise related to the above.

Module- 2: Design of Solar Shading Devices

Movement of sun. Locating the position of sun. Sun path diagram. Overheated period. Solar shading. Shadow angles. Exercise in the design of shading devices through models/ calculations/ drawings/ software.

Module- 3: Heat Flow Through Building Envelope- Concepts

The transfer of heat through solids. Definitions– Conductivity, Resistivity, Specific heat, Conductance, Resistance and Thermal capacity. Surface resistance and air cavities. Air to air transmittance (Uvalue). Time lag and decrement. Material qualities of envelopes. Exercise involving calculation/ software for design analysis.

Module- 4: Air Movement Due to Natural and Built Forms

The wind. The effects of topography on wind patterns. Air currents around building. Air movement through buildings. The use of fans. Thermally induced air currents – Stack effect, Venturi effect, use of court-yard. Exercise exploring air movement in architecture with physical models/ simulation through software.

Module- 5: Climate and Design of Buildings

Design strategies in warm humid climates, hot humid climates, hot and dry climates and cold climates. Climate responsive design exercise for different contexts through sketches/ drawings/ analysis/ detailing/ calculation.

References:

1. Koenigsberger, Manual of Tropical Housing & Buildings (Part-II), Orient Longman, Bombay, 1996.
2. Arvind Kishan, Baker & Szokolay, Climate Responsive Architecture, Tata McGraw Hill, 2002.
3. Martin Evans; Housing, Climate, and Comfort; Architectural Press (1 March 1980)
4. Donald Watson and Kenneth Labs; Climatic Building Design - Energy-Efficient Building Principles and Practice; McGraw-Hill Book Company, 1983.

5. Mili Majumdar (Editor); Energy Efficient Buildings in India; The Energy and Resources Institute, TERI (28 February 2009)
6. Baruch Givoni; Passive and Low Energy Cooling of Buildings; John Wiley & Sons (1 July 1994).
7. Energy Conservation Building Code (ECBC) 2007; Bureau of Energy Efficiency, Ministry of Power, Government of India.
8. Bureau of Indian Standards IS 3792, 'Hand book on Functional Requirements of Buildings other than Industrial Buildings- Part I – IV', New Delhi, 1987.

CONTEMPORARY INTERIOR DESIGN		
Subject Category: DSC	Subject Code: 22IDBE27	Total: 100 = Continuous Internal Evaluation: 40 + Semester End Examination: 60
Credits: 03	L:P:T: :3:0:0	SEE: 03 hrs

Objective:

- To provide the student of Interior Design knowledge on the works of leading interior designers and their influence on design through ages.
- To help the student understand the designs from the industrial age to the present information age.
- To know more on the Modern Movements in Interior design from the beginnings of 20th century.

Outline:

Module- 1 Early Pioneers

Art nouveau, the Post-Industrial era works of Charles Renée Mackintosh, Antonio Gaudi, Gerrit Rietveld and their expressionist interior design.

Module- 2 Bauhaus and Post War Modernists

Walter Gropius/ Bauhaus, De Stijl, Mies Van Der Rohe, Art Deco, Postwar Modernism.

Module- 3 Modernism

Interiors of Le Corbusier, Frank Lloyd Wright, Louis Khan, Kenzo Tange and Oscar Niemeyer.

Module- 4 International Style

The works of Alvar Alto, Phillip Johnson, Charles and Ray Eames, Eero Saarinen, Eero Aarnio, Arne Jacobsen.

Module- 5 Post Modernism and Minimalism

Interiors of Zaha Hadid, Santiago Calatrava, Frank Gehry and Peter Eisenmann

References:

1. Interior Design Course, Mary Gilliat Coyran, Octopus Ltd., London
2. Interior Design & Decoration, Sherril Whiton, Prentice Hall
3. Interior Design, Francis D.K. Ching, John Wiley & Sons, New York
4. History of Architecture, Sir Banister Fletcher, CBS Publishers & distributors, New Delhi
5. Time Saver Standards for Interior Design, Joseph De Chiara, McGraw Hill, New York

FIELD STUDIES		
Subject Category: SEC	Subject Code: 22IDBE28	Total: 50 = Continuous Internal Evaluation: 50
Credits: 01	L:P:T:: 0:2:0	SEE: NIL

Outline:

The study of residential buildings, kiosk, small boutiques and similar scaled activities and a comprehensive report is submitted.

SPORTS & GAMES		
Subject Category: SEC	Subject Code: 22IDBE29	Total: 50 = Continuous Internal Evaluation: 50
Credits: 01	L:P:T:: 0:2:0	SEE: NIL

- As per UOM syllabus for Undergraduate Degree Courses

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SEMESTER-III

LANGUAGE I		
Subject Category: AECC	Subject Code: 22IDBE31	Total: 100 = Continuous Internal Evaluation: 40 + Semester End Examination: 60
Credits: 03	L:P:T:: 3:0:0	SEE: 03 hours

- As per UOM syllabus for Undergraduate Degree Courses

LANGUAGE II		
Subject Category: AECC	Subject Code: 22IDBE32	Total: 100 = Continuous Internal Evaluation: 40 + Semester End Examination: 60
Credits: 03	L:P:T:: 3:0:0	SEE: 03 hours

- As per UOM syllabus for Undergraduate Degree Courses

ENVIRONMENTAL STUDIES		
Subject Category: AECC	Subject Code: 22IDBE33	Total: 50 = Continuous Internal Evaluation: 50
Credits: 02	L:P:T:: 2:0:0	SEE: NIL

- As per UOM syllabus for Undergraduate Degree Courses

COMPUTER APPLICATION-2		
Subject Category: SEC	Subject Code: 22IDBE34	Total: 100 = Continuous Internal Evaluation: 100
Credits: 02	L:P:T:: 0:4:0	SEE: NIL

Objective:

- To develop with advanced computer application in interior design and built form and to equip students with skills required in using digital tools to conceive, develop and present the interior designing ideas

Outline:

Module- 1: Introduction to advanced popular 3D modelling software:

3D Studio Max, Revit, Rhinoceros and other application software

Module- 2: Conversion of Architectural/ interior design project into NURB modelling projects:

2D measured drawings conversion from CAD to other 3D modelling software

Module- 3: Working on 3D modelling and Visualization software with rendering

- In 3DS max or Maya or any other
- Techniques of 3D visualization
- Concepts of 3D modelling

Module-4: Working on Graphics / image editing software

To present the design studio projects – introduction to the publishing tools for creating presentation and portfolios

Module- 5: Exercise and assignments

Project – 1

- Classroom exercise to convert design project 2D drawings of previous semester into 3D model using relevant software
- Project to be rendered

Project – II

- Classroom demonstration on image rendering, collage using graphics, image editing software adding context to visualization, fore ground, background etc
- Project to include presentation of final outcomes in the form of drawing panels, booklets, posters

Note: A portfolio of exercise and assignments done in the class to be submitted for progressive marks

References:

1. Internet resources, blogs and learning resources on the web of popular 3D modelling software and NURB modelling
2. Vector/ graphics/ image editing software

INTERIOR DESIGN STUDIO- 1		
Subject Category: DSC	Subject Code: 22IDBE35	Total: 100 = Continuous Internal Evaluation: 50 + Semester End Examination: 50
Credits: 05	L:P:T:: 0:6:0	SEE: Viva-voce

Objectives:

- The course prepares a base for the students to gain an understanding into the fundamental issues in designing small spaces and residential spaces and develops the skill to create floor plans considering all the factors affecting spatial composition.

Outline:

Module- 1

Introduction to design methodology. Detailed study of spaces such as living, dining, bedrooms, kitchen, toilet etc. including the furniture layout, circulation, clearances, lighting and ventilation, etc. Case study of existing houses and analysis of the spaces.

Major Project - Interior design schemes for a small-scale residential unit.

Module- 2

Minor Project - Interior design schemes for a single space unit - cafe/flower stall/salon/bakery/clinic/pharmacy.

References:

1. Julius Panero & Martin Zelnick, Human Dimension & Interior Space : A source book of Design Reference standards, Watson – Gupta, 1979.
2. John Hancock Callender, "Time-Saver Standards for Architectural Design Data", 1982, McGraw-Hill
3. Neufert, Ernst, and Peter Neufert. Architects' data. John Wiley & Sons, 2012.

BUILDING MATERIAL AND CONSTRUCTION- 2		
Subject Category: DSC	Subject Code: 22IDBE36	Total: 100 = Continuous Internal Evaluation: 50 + Semester End Examination: 50
Credits: 03	L:P:T:: 2:3:0	SEE: Viva-voce

Objective:

- To understand the various materials used in construction.
- To learn the methods and techniques of interior construction.

Outline:**Module- 1**

Surface Finishing and Panting/polishing. Characteristics of good paint – its ingredients. Method of proper application of paint and polishes – painting process. Cladding, preparation of variety of surfaces. Finishes- Lime/color wash, Dry distemper, oil bound distemper, cement paints, emulsions, synthetics enamels, wall textures etc.

Module- 2

Plastics and miscellaneous Materials— Introduction and Properties. Types of plastics, use of plastics in interiors, fiber plastic, silicones' and its usage. Walls and partition walls - Different types of plaster like lath and its installation. Plastic surfaces, Gypsum boards partitions, Metal stud partitions.

Module- 3

Glass in Interiors— Introduction, types and application. Glass – different types of glasses, and its uses in interiors, Glass and glass products – Composition and fabrication of glass, classification, types of glass- wired glass, fibre glass, rock wool, laminated glass, glass concrete blocks - their properties and uses in buildings. Types of Adhesives.

Module- 4

Flooring— Introduction, types and application. Different types of flooring and its usage. In interiors, Cement and brick flooring, Wood flooring. Resilient flooring. Stone Flooring. Ceramic tile flooring, Terrazzo flooring, and Soft flooring

Module- 5

Roof Terracing - Complete process of laying of terracing with provisioning of Gola and khurra etc. Lime concrete, mud phuska with brick tiles, Brick coba. Roof Coverings- Clay tiles, stone slating, shingles, thatch.

References:

1. McKay, W.B., “Building Construction Volume I, II, III and IV”, Longmans, 1955.
2. Ching, Francis D. K. and Adams, Cassandra, “Building Construction Illustrated”, Wiley and Sons, 2000.
3. Barry, The Construction of Buildings –Volume I, II, III and IV
4. Chudley, Roy, “Construction Technology”, Longman, 2005.
5. Mitchell, Building Construction_ (Elementary and Advanced)
6. Rangwala, S. C., “Building Construction”, Charotar Publishing House, 2007
7. Bindra & Arora, Building Construction.
8. Punmia B. C., Jain A. J., and Jain A.J., Building Construction, Laxmi Publications, 2005.
9. Don A.Watson, Construction Materials and Processes, McGraw Hill Co.
10. SC Rangwala, Building Materials: Charotar Pub. House, Anand
11. M. Gambhir, Neha Jamwal, Building Materials Products, Properties and Systems, Tata McGraw Hill Publishers, New Delhi, 2011.
12. R.K.Gupta, Civil Engineering Materials and Construction Practices, Jain brothers, New

Delhi, 2009.
13. National Building Code of India (Latest Edition), Bureau of Indian Standards.

FUNDAMENTALS OF STRUCTURES		
Subject Category: DSC	Subject Code: 22IDBE37	Total: 100 = Continuous Internal Evaluation: 40 + Semester End Examination: 60
Credits: 03	L:P:T: :3:0:0	SEE: 03 hours

Objective:

- On completing this course students will be able to understand the basic principles of mechanics and behavior of elements and ability to analyze the standard members in structures.

Outline:

Module- 1

Introduction to trusses, rigid frames, linear and curved elements, simply supported, cantilever and overhanging beams for various loads, effect of simple geometric forms in the overall structural behavior.

Module- 2

Primary and secondary forces acting on the structures – gravitational force, live load, wind, temperature variation, distribution of loads through the elements of the structural system.

Module- 3

Characteristic requirements of structural design – stress and strains, strength, stiffness, and stability. Discussion on factors affecting them and the ways of satisfying these requirements.

Module- 4

Light weight space structure, small- and large-scale surface structure, integrated display system and structural elements. Structural systems and their layout for a small building.

Module- 5

Structural systems for elements of interior spaces – false ceilings etc. Structural system for urban interior spaces – malls, fair grounds, exhibition spaces, etc.

References:

1. Rowland J. Mainstone : Development of Structural Form
2. Rangwala : Engineering Materials
3. S.P.Bindra, S.P.Arora, Building Construction
4. B.C. Punmia : Strength of Materials vol - I

Elective – 1

Elective – 1		(A) ART STUDIO
Subject Category: DSE	Subject Code: 22IDBE38A	Total: 100 = Continuous Internal Evaluation: 100
Credits: 02	L:P:T: :0:3:0	SEE: NIL

Outline:

- Introduction to the art and basic elements & principles of drawing, visual effects of drawing, scale, composition, study of light, shade and shadow.
- Introduction of painting, color schemes, exercises involving in study of colors, properties of tools used in painting.

Elective – 1		(B) GRAPHIC DESIGN
Subject Category: DSE	Subject Code: 22IDBE38B	Total: 100 = Continuous Internal Evaluation: 100
Credits: 02	L:P:T: :1:0:2	SEE: NIL

Outline:

- Introduction to the various techniques of graphic representations
- Introduction to the manual drafting to work on the drawing methods using the instruments and freehand
- To development of graphic skills and material indication
- To develop visual communication and methods of presentation of spatial design through 3D drawing techniques

NSS		
Subject Category: SEC	Subject Code: 22IDBE39	Total: 50 = Continuous Internal Evaluation: 50
Credits: 01	L:P:T: :0:2:0	SEE: NIL

- As per UOM syllabus for Undergraduate Degree Courses

SPORTS & GAMES		
Subject Category: SEC	Subject Code: 22IDBE310	Total: 50 = Continuous Internal Evaluation: 50
Credits: 01	L:P:T: :0:2:0	SEE: NIL

- As per UOM syllabus for Undergraduate Degree Courses

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SEMESTER-IV

LANGUAGE I		
Subject Category: AECC	Subject Code: 22IDBE41	Total: 100 = Continuous Internal Evaluation: 40 + Semester End Examination: 60
Credits: 03	L:P:T: :3:0:0	SEE: 03 hours

- As per UOM syllabus for Undergraduate Degree Courses

LANGUAGE II		
Subject Category: AECC	Subject Code: 22IDBE42	Total: 100 = Continuous Internal Evaluation: 40 + Semester End Examination: 60
Credits: 03	L:P:T: :3:0:0	SEE: 03 hours

- As per UOM syllabus for Undergraduate Degree Courses

CONSTITUTION OF INDIA		
Subject Category: AECC	Subject Code: 22IDBE43	Total: 50 = Continuous Internal Evaluation: 50
Credits: 02	L:P:T: :2:0:0	SEE: NIL

- As per UOM syllabus for Undergraduate Degree Courses

PRESENTATION GRAPHICS FOR INTERIOR DESIGN		
Subject Category: SEC	Subject Code: 22IDBE44	Total: 100 = Continuous Internal Evaluation: 100
Credits: 02	L:P:T: :0:3:0	SEE: NIL

Objective:

- To develop visual communication and representation skills and methods of presentation of spatial design through 3D drawing techniques.

Outline:

Module-1

Introduction to perspective drawing: its importance in drawing principles of interior drawings, principles of perspective drawings, visual perceptions and its limitations. Exercises of observation, recording and representation the visual effects of depth, diminution and vanishing of built forms and understanding the methods of perspective projections

Module-2

One-point perspective drawings: exercises of perspective drawings of simple built forms, interior views of a room and furniture. Exercise of perspective by changing the variable, their positions of PP, CV, SP and eye level etc.,

Module-3:

Two-point perspective drawings: exercise of perspective drawings of simple built forms, interior elements and views of a room with furniture. Exercise of perspective by changing the variables, their positions of PP, CV, SP and eye-level etc.,

Module- 4:

Introduction to Sciography: Principles of shade and shadow for geometric solids, interior elements and built forms. Construction of shadows on floor plans, elevations, sectional elevations and details.

Module- 5:

Graphical Representation of Presentation Drawing for different kind of projects

References:

1. Francis D.K. Ching, "Architectural Graphics", Van Nostrand Reinhold Co., 1985
2. L.H. Morris. "Geometrical Drawings for Art Students", Longmans 1902
3. Robert W. Gill, "Rendering with pen and ink".
4. Shankar Malik, "Perspective & Sciography", 1994, Allied Publisher

INTERIOR DESIGN STUDIO - 2		
Subject Category: DSC	Subject Code: 22IDBE45	Total: 100 = Continuous Internal Evaluation: 50 + Semester End Examination: 50
Credits: 05	L:P:T:: 0:6:0	SEE: Viva-voce

Objectives:

- To prepare the students to handle complex multi-functional spaces.

Outline:

Module- 1

Major Project - Office complex / Retail complex/ similar. Complete design scheme for a building envelope along with interior detailing. Concept of colour schemes in interiors and branding design - exercises on building mood boards - study of colour schemes and visual identity for various brand interiors.

Module- 2

Minor Project - Furniture / Accessories design and detailing in line with the major project chosen.

References:

1. Julius Panero & Martin Zelnick, Human Dimension & Interior Space : A source book of Design Reference standards, Watson – Gupta, 1979.
2. John Hancock Callender, "Time-Saver Standards for Architectural Design Data", 1982, McGraw-Hill
3. Neufert, Ernst, and Peter Neufert. Architects' data. John Wiley & Sons, 2012.

BUILDING SERVICES - 1		
Subject Category: DSC	Subject Code: 22IDBE46	Total: 100 = Continuous Internal Evaluation: 40 + Semester End Examination: 60
Credits: 03	L:P:T: :3:0:0	SEE: 03 hours

Objective:

- To introduce students to electrical services and illumination and to sensitize them with respect to interior lighting requirements.

Outline:

Module 1:

Introduction to commonly used terminologies in electricals. Importance of electricals.

Module 2:

Internal electrical systems, power requirements, Mains and circuits, Distribution and wiring, Generators and UPS, Earthing and lightning protection system.

Module 3:

Study of various components in Building Electrical System. Lightning system design.

Module 4:

Interior lighting methods, Types of lamps, Systems of luminaries, Outside lighting, Facade lighting etc.

Module 5:

Case studies & site visit

Typical layout generation of lighting for Rooms, shops/office etc, Visit to yards/panel rooms, Residential / Commercial & Office buildings to understand the interior lighting requirements.

References:

1. Anwari: Basic Electrical Engineering
2. Handbook of Lighting Design by Ruediger Ganslandt, Harald Hofmann; ERCO Edition
3. Susan M. Winchip, Fundamentals of Lighting.
4. Code of Practice for Interior Illumination (IS 3646-1(1992) Indian Standards - BIS

SUSTAINABLE BUILT ENVIRONMENT		
Subject Category: DSC	Subject Code: 22IDBE47	Total: 100 = Continuous Internal Evaluation: 40 + Semester End Examination: 60
Credits: 03	L:P:T:: 3:0:0	SEE: 03 hours

Objectives:

- To inform about the need to use alternative sources of energy in view of the depleting resources and climate change.
- To provide familiarity with simple and passive design considerations.
- To inform about the importance of day lighting and natural ventilation in building design.
- To create awareness of future trends in the design of sustainable built environment.
- To give an understanding of the concept of sustainability and sustainable development.

Outline:

Module- 1: Introduction to Green Buildings & Green Building Rating System

Why make Buildings Green? Concept and necessity.

Green Building Rating System: The seven categories in the rating system : Sustainable Sites, Water Efficiency, Energy & Atmosphere, Materials & Resources, Indoor

Environmental Quality, Innovation in Design and Regional Priority. Rating Systems: GRIHA and LEED & other Systems.

Module- 2: Introduction to Sustainability

Concept of sustainability. Carrying capacity, sustainable development. Ethics and visions of sustainability. Circles of sustainability. Sustainable economy and use. eco systems, food chain and natural cycles or cradle to cradle concept.

Module- 3: Climate Change and Sustainability

Overview of climate change and its impact on a global and regional scale. Principles of energy systems. Energy crisis and global environment. Study on vernacular techniques and technological advancements in climate control in different climatic zones.

Module- 4: Site and Sustainability

Sustainable site selection and development. Introduction to Green building concepts. TERI, LEED, GRIHA and BREEAM. Ecology and sustainability. Different sources of energy, recyclable products and embodied energy.

Module- 5: Sustainable Materials

Selection of materials Eco building materials and construction. Low impact construction – bio mimicry, zero energy buildings, nano technology and smart materials.

References:

1. Dominique Gauzin-Muller, 'Sustainable Architecture and Urbanism: Concepts, Technologies and Examples', Birkhauser, 2002.
2. Catherine Slessor, 'Eco-Tech: Sustainable Architecture and High Technology', Thames and Hudson 1997.
3. Ken Yeang, 'Ecodesign- A Manual for Ecological Design', Wiley Academy, 2006.
4. Sandra F. Mendler & William Odell, 'HOK Guidebook to Sustainable Design', John Wiley and Sons, 2000.
5. Richard Hyder, 'Environmental Brief: Pathways for Green Design', Taylor and Francis, 2007.
6. Brenda Vale and Robert Vale, 'Green Architecture: Design for a Sustainable Future', Thames and Hudson, 1996.
6. David Johnson and Scott Gibson, 'Green from the Ground Up: Sustainable, Healthy and Energy Efficient Home Construction', Taunton Press, 2008

Elective – 2

Elective – 2		(A) SCULPTURE
Subject Category: DSE	Subject Code: 22IDBE48A	Total: 100 = Continuous Internal Evaluation: 100
Credits: 02	L:P:T: :0:3:0	SEE: NIL

Outline:

- To understand the art of making two- or three-dimensional representative or abstract forms, especially by carving stone or wood or by casting metal or plaster, etc.,

Elective – 2 (B) VISUAL COMMUNICATION		
Subject Category: DSE	Subject Code: 22IDBE48B	Total: 100 = Continuous Internal Evaluation: 100
Credits: 02	L:P:T: :0:3:0	SEE: NIL

Outline:

- Introduction to Visual communication, Techniques of visual communication.
- Historical Context and Design Principles, perception, aesthetics, Semiotics
- Visual Rhetoric / Visual Variables , Visual Literacy Theory and Cultural Studies

References:

1. Handbook of Visual Communication Theory, Methods, and Media; Ken Smith, Sandra Moriarty, Gretchen Barbatsis, Keith Kenney; Lawrence Erlbaum Associates, Publishers; 2005
2. Communication Design Principles, Methods, and Practice; Jorge Frascara; Allworth Press New York; 2004
3. Visual Communication Theory and Research: A Mass Communication Perspective; Shahira Fahmy, Mary Angela Bock, Wayne Wanta (auth.); Palgrave Macmillan US; 2014
4. Visual communication research designs; Keith Kenney; Taylor & Francis; 2008

FIELD STUDIES		
Subject Category: SEC	Subject Code: 22IDBE49	Total: 50 = Continuous Internal Evaluation: 50
Credits: 01	L:P:T: :0:2:0	SEE: NIL

Outline:

The study of restaurants, office spaces and similar scaled activities and a comprehensive report is submitted.

SPORTS & GAMES		
Subject Category: SEC	Subject Code: 22IDBE410	Total: 50 = Continuous Internal Evaluation: 50
Credits: 01	L:P:T: :0:2:0	SEE: NIL

- As per UOM syllabus for Undergraduate Degree Courses

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SEMESTER-V

CARPENTRY & FURNITURE DESIGN		
Subject Category: SEC	Subject Code: 22IDBE51	Total: 100 = Continuous Internal Evaluation: 100
Credits: 02	L:P:T:: 0:4:0	SEE: NIL

Objective:

- To introduce the carpentry joinery details like lengthening, widening, angle, bearing, framing and oblique joints
- To introduce the art of preparing the furniture with respect to design ideas

Outline:

- Joinery details demonstrated and made using appropriated material
- Furniture - Types of furniture, creation of furniture using different materials.
- Types of materials used in furniture making - Characteristics of materials, paper, handmade paper, mount boards, balsa wood, perplex sheet, cork sheets, plaster of Paris, thermocol, and other material that creates an effect of reality in model forms.
- Properties of wood, power tool demonstration, machinery demonstration, jig-making, wood bending, table saw introduction, joinery, turning, routing, morticing, shaping, sanding, and finishing.

Note: To submit the joinery wooden models done during the workshop

INTERIOR DESIGN STUDIO - 3		
Subject Category: DSC	Subject Code: 22IDBE52	Total: 100 = Continuous Internal Evaluation: 50 + Semester End Examination: 50
Credits: 06	L:P:T:: 0:8:0	SEE: Viva-voce

Objectives:

- To prepare the students to handle interior design projects for service intensive typologies.

Outline:

Module- 1

Major Project - Interiors for Public Building or Hospitality. Complete design scheme for an existing/ hypothetical built envelope along with interior detailing.

Module- 2

Minor Project - Adaptive reuse of historic interiors to suit a modern use - Eg. conversion of residence into a boutique/cafe - conversion of fort into fine dining.

References:

1. Julius Panero & Martin Zelnick, Human Dimension & Interior Space : A source book of Design Reference standards, Watson – Gupta, 1979.
2. John Hancock Callender, "Time-Saver Standards for Architectural Design Data", 1982, McGraw-Hill
3. Neufert, Ernst, and Peter Neufert. Architects' data. John Wiley & Sons, 2012.

BUILDING MATERIAL AND CONSTRUCTION - 3		
Subject Category: DSC	Subject Code: 22IDBE53	Total: 100 = Continuous Internal Evaluation: 50 + Semester End Examination: 50
Credits: 03	L:P:T:: 2:3:0	SEE: Viva-voce

Objective:

- To understand the various materials used in construction.
- To learn the methods and techniques of interior construction.

Outline:

Module -1

Introduction to wood products as building material: Plywood, Blockboard Particle board Cardboard Laminates MDF, HDF, HDPE wood wool etc.

Module -2

Interior residential construction: module kitchens and cabinet shelves.

Interior office construction: bookshelves file cabinets and workstations.

Partition systems: wall and ceiling using plywood PVC, marble, granite, aerated concrete block, Gypsum board, glass, etc.

Module -3

Frameless glass doors and windows: Fixing and fabrication details. Structural glazing and cladding: Fixing and fabrication details.

Module -4

Introduction to metal cladding and different louvers: ACP, Aluminum louvers ,fixing and fabrication details.

Module -5

UPVC, PVC And FRP: Detailing and study of joinery.

References:

1. Raghuwanshi, B.S., “A Course in Workshop Technology - Vol. I and II”, Dhanpat Rai and Co, 2001
2. Ching, Francis D. K. and Adams, Cassandra, “Building Construction Illustrated”, Wiley and Sons, 2000.
3. The Construction of Buildings – Barry Volume I, II, III and IV
3. Chudley, Roy, “Construction Technology”, Longman, 2005.
4. Mitchell, Building Construction_ (Elementary and Advanced)
5. Rangwala, S. C., “Building Construction”, Charotar Publishing House, 2007
6. Bindra &Arora, Building Construction.
7. Punmia B. C., Jain A. J., and Jain A.J., Building Construction, Laxmi Publications, 2005
8. R.K.Gupta, Civil Engineering Materials and Construction Practices, Jain brothers, New Delhi, 2009.
9. National Building Code of India (Latest Edition), Bureau of Indian Standards.
10. McKay, W.B., “Building Construction Volume I, II, III and IV”, Longmans, 1955.

INTERIOR WORKING DRAWING AND DETAILING		
Subject Category: DSC	Subject Code: 22IDBE54	Total: 100 = Continuous Internal Evaluation: 50 + Semester End Examination: 50
Credits: 04	L:P:T:: 0:5:0	SEE: Viva-voce

Objective:

- Introduction of working drawing and details: Coordination between architectural, structural, services and other disciplines; preparation of working drawing for an interior design project.

Outline:

Module-1 :

Introduction: overview of working drawings; consultants involved in preparation of working drawings, their role and scope; reading, error checking, problems in working drawings.

Module- 2:

Drafting Conventions: Representation of material, graphic symbols, line type conventions, grid lines, lettering, color codes, paper sizes, title blocks, office practices etc.

Module- 3:

Construction details: Wall detailing, Ceiling detailing, Furniture & fixtures - Joints and connections etc.

Module- 4:

CAD Drawings: Working with layers, blocks, templates, assemblies, libraries, layouts, plot style etc.

Module- 5:

Project work: Preparation of Interior Working drawings and details for one of the Design projects like Residence, Clinic, Commercial or Office interior.

Portfolio:

Drawings to include Floor plan, Plans at all levels, Furniture layouts, Floor/walls detailing, Ceiling design & details etc, Sections & Elevations etc.

INTERIOR LANDSCAPE		
Subject Category: DSC	Subject Code: 22IDBE55	Total: 100 = Continuous Internal Evaluation: 40 + Semester End Examination: 60
Credits: 03	L:P:T: :3:0:0	SEE: 03 hours

Objective:

- To study the concepts of interior landscaping and their application in the design of interior spaces.
- To develop an understanding about the design of interior landscape with special emphasis on the choice and care of plant materials used in the interior spaces.
- To study about the various landscaping elements and their application in interior spaces.

Outline:

Module- 1 Interior Landscaping

Definition, classification of plants, indoor plants and their functions, layout & components, Floriculture –commercial, ornamental, Selection of plants & pest control.

Module- 2 Physical Requirements of Plants

Physical requirements of plants – light, temperature, water, planting medium, soil separator, weight of plants, acclimatization & maintenance. Techniques to meet physical requirements.

Module- 3 Interior Landscaping Elements & Principles

Various interior landscaping elements – water bodies - pools, fountains, cascades Plants, rocks, artifacts, paving & lighting, Design guidelines- plant texture & color, plant height, plant spacing. Vertical landscaping, Zen garden, Japanese landscaping

Module- 4 Roof and Deck Landscape

Protection of the integrity of the roof and structure, provisions for drainage, light weight planting medium, irrigation, selection of materials, water proofing, provision for utilities and maintenance

Module- 5 Exercise on Interior Landscape

Courtyard design, an outdoor room design, Terrace garden, Artificial and preserved plants, flower arrangement

References:

1. Time saver standards for landscape architecture.
2. Planting design by Theodore D.Walker, VNR Publications New York.
3. Landscaping Principles and Practices by Jack E.Ingels, Delmar Publishers.
4. Garden structures – wiles Richard raphic Guide to Frame Construction (1991) Thallon, R. Newtown: The Taunton Press, Inc.
5. Time Saver Standards Design Data -Chiava. J. & Callender. J

INTERNSHIP		
Subject Category: PW	Subject Code: 22IDBE56	Total: 100 = Continuous Internal Evaluation: 50 + Semester End Examination: 50
Credits: 03	L:P:T:: 0:5w:0	SEE: Viva-voce

Objective:

- To impart knowledge on working of interior design firm
- To gain practical knowledge of managing an interior design firm

Training with any Interior Design/Architectural firm or company for a minimum period of 30days. A report to be submitted for evaluation.

The Internship Report must contain the following chapters:

1. Introduction of the company
2. Aim and objective of the internship
3. Organization structure of the company
4. Role of interior designers
5. Layout of the organization

6. Types of software used for designing
7. Methods used for costing and estimation
8. Summary & conclusion

Elective – 3

Elective – 3		(A) PHOTOGRAPHY
Subject Category: DSE	Subject Code: 22IDBE57A	Total: 100 = Continuous Internal Evaluation: 100
Credits: 02	L:P:T:: 3:0:0	SEE: NIL

Outline:

- Introduction to architectural photography. Various types of compositions, framing, silhouette photography.
- Use of various cameras, lenses and accessories, handling of equipment.
 - SLR,DSLR cameras, lenses for different focal lengths for various contexts
 - Use of wide angle, normal, tele, zoom, macro, close up lenses.
 - Filters- UV, Skylight, colour filters, special effect filter.
- Shutter speeds- slow, normal and high and their various applications.
- Apertures- use of various apertures to suit different lighting conditions and to enhance depth of fields.
- Selection of ISO rating to match various lighting conditions.
- Optimizing selection of shutter speed, aperture and ISO.
- Twilight and night photography.
- Various uses of photography- documentation, presentations, competitions, lectures, etc.
- Creative photography/ photo renderings, for special effects using software.
- Play of light and shadows to achieve dramatic pictures.
- Effects of seasons, inclusion of greenery, foliage, clouds, human scale etc.

REFERENCES:

1. Schulz, Adrian. Architectural Photography: Composition, Capture, and Digital Image Processing, Rocky Nook, 2012.
2. McGrath, Norman . Photographing Buildings Inside and Out, Watson-Guption Publications, 1993.

Elective – 3		(B) FENGSHUI AND VASTU FOR INTERIOR
Subject Category: DSE	Subject Code: 22IDBE57B	Total: 100 = Continuous Internal Evaluation: 100
Credits: 02	L:P:T: :3:0:0	SEE: NIL

Outline:

- To introduce the role and principle of Fengshui and vastu.
- Study of Fengshui elements in the field of interior design.
- Study of vastu elements in the field of interior design.

SMALL PROJECT WORK		
Subject Category: SEC	Subject Code: 22IDBE58	Total: 50 = Continuous Internal Evaluation: 50
Credits: 01	L:P:T: :0:2:0	SEE: NIL

Outline:

Choosing an appropriate real-time project to conduct study and documentation.
Followed by critical appraisal and post-occupancy evaluation of the same.

SPORTS & GAMES		
Subject Category: SEC	Subject Code: 22IDBE59	Total: 50 = Continuous Internal Evaluation: 50
Credits: 01	L:P:T: :0:2:0	SEE: NIL

- As per UOM syllabus for Undergraduate Degree Courses

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SEMESTER-VI

PROJECT WORK		
Subject Category: DSC	Subject Code: 22IDBE61	Total: 200 = Continuous Internal Evaluation: 100 + Semester End Examination: 100
Credits: 08	L:P:T: :0:8:0	SEE: Viva-voce

Objectives:

- To enable students to identify potential interior projects, develop sensible briefs, conduct necessary research and develop design schemes independently.

Outline:

Students are expected to identify a project of their choice - Conduct studies to fully understand the selected typology - Independently develop the program and schemes for an existing building envelope - Make convincing presentations in the form of technical illustrations, models and walk-through - Prepare a detailed project report.

References:

All references will be project specific and will include a wide range of subjects (history, theory, services, material, and construction).

BUILDING SERVICES- 2		
Subject Category: DSC	Subject Code: 22IDBE62	Total: 100 = Continuous Internal Evaluation: 40 + Semester End Examination: 60
Credits: 03	L:P:T: :3:0:0	SEE: 03 hrs

Objective:

- To develop the knowledge and skills required for understanding the mechanical services in building and their integration with interior design.

Outline:

Module 1:

Introduction to Mechanical ventilation, Need for mechanical ventilation, understanding of various spaces and their relationship with ventilation system, Types of ventilation.

Module 2:

Introduction to air conditioning systems, types of air conditioning systems, Basic understanding of Load, Zone, Duct works etc,

Module 3:

Introduction to Elevators & Escalators, Basic understanding of mechanical systems in buildings.

Module 4:

Understanding of different layouts- Residential, commercial/Office, Placement of mechanical equipment, Integration of interior design into the building services and Fire safety.

Module 5:

Introduction to Acoustics, Basic understanding of Building acoustics, Room acoustics, Use of materials, Relation to interiors and acoustics.

Case studies & site visit:

Visit to acoustically designed and treated multipurpose halls, case study reports could be submitted as group assignments.

References:

1. M.David Egan “Architectural Acoustics”.
2. Leslie L Doelle “Environmental Acoustics”
3. Vern O Kundsén and Cyril M Harris, “Acoustical Designing in Architecture”
4. National Building Code of India (NBC) 2016 Part8 Section 4

SPECIFICATION, ESTIMATION, COSTING & PROFESSIONAL PRACTICE & ETHICS		
Subject Category: DSC	Subject Code: 22IDBE63	Total: 100 = Continuous Internal Evaluation: 40 + Semester End Examination: 60
Credits: 03	L:P:T: :3:0:1	SEE: 03 hrs

Objective:

- To develop the necessary skills for establishing and writing specifications based on proposed materials for the preparations of bill of quantities leading to cost estimation of proposed interior works. To understand the responsibilities & liabilities of the profession, To appreciate the attitude of professionalism.

Outline:**Module 1:**

Introduction to estimation, need for estimation, relationship between choice of materials, their specifications, bill of quantities (BOQ), project costing, project quality/cost/time management.

Module 2:

Specification, abstract and detailed specifications for various materials, National Building codes on specification, Introduction to costing, RA bills, (MB) Measurement book.

Module 3:

Detailed specification writing and estimation of Bill of quantities for an interior design project for each example like residence, cafe, clinic, office, commercial etc.

Module 4:

Profession, Practice, Office management, Administration, Services offered, scale of fees, stages of payment, types of firms, proprietorship, partnership, associate ship and private limited firms, basic accounting procedures etc.

Module 5:

Code of practice, guidelines and acts, Tender & contract, documentation and procedure, Byelaws and Codes, Arbitration, Different terminologies- EMD, SD, CC, PC, FAR, CDP, FSI, NBC etc

References:

1. Dutta B N, Estimating and costing in Civil Engineering - Theory and Practice, UBS Publishers, 1993
2. Rangwala, Estimating, Costing & Valuation, Charotar Publishing House.
3. Namavathi, Roshan, Professional Practice for Architects and Engineers, Lakhani Book, New Delhi, 2001

4. Krishnamurthy K G and Ravindra S V, Professional Practice, S V Ravindra, 2009, Bangalore

PROJECT MANAGEMENT		
Subject Category: DSC	Subject Code: 22IDBE64	Total: 100 = Continuous Internal Evaluation: 40 + Semester End Examination: 60
Credits: 03	L:P:T:: 3:0:0	SEE: 03 hrs

Objective:

- To gain Knowledge about the methodology of executing a Project.
- To expose the students to the currently prevalent techniques in the planning, programming and management of a project.
- A perspective of leadership effectiveness in organizations
- Team-building skills required to support successful performance
- Skills to manage creative teams and project processes effectively and efficiently

Outline:

Module-1: Introduction

Project planning and project scheduling and project controlling, Role of Decision in project management, Method of planning and programming, Human aspects of project management, work breakdown structure, Life cycle of a project, disadvantages of traditional management system

Module- 2: Elements of Network

Event, activity, dummy, network rules, graphical guidelines for network, numbering of events

Module- 3: Critical Path Method and Pert Analysis

CPM network analysis & PERT time estimates, time computation & network analysis

Module- 4: Project Time Reduction and Optimization

Project cost, Indirect project cost, direct project cost, slope of the direct cost curve, total project cost and optimum duration, contracting the network for cost optimization, steps in cost-time optimization

Module- 5: Computer applications in project management.

Introduction to MS Project and Primavera software.

References:

1. Jerome D.Wiest and Ferdinand K.Levy, A Management Guide to PERT, CPM, prentice Hall of India Pub, Ltd., New Delhi, 1982
2. R.A. Burgess and G.White, Building production and project Management, The construction press, London, 1975
3. Dr. B.C.Punmia et al. Project planning and control with PERT and CPM, Laxmi Publications,
4. Prof.B.M. Dhir & P.S Gahlot, 'Construction planning and Management', New Age International (p)Ltd, Publishers.
5. Chitkara, 'Construction Project Management', Mc Graw Hill Publications,
6. Construction management by NITTTR, Chennai

7. Dr.S.S.Khanka, 'Entrepreneurial development', S.Chand publishers

Elective –4

Elective –4 (A) ACCESSORIES FOR INTERIOR DESIGN		
Subject Category: DSE	Subject Code: 22IDBE65A	Total: 100 = Continuous Internal Evaluation: 100
Credits: 02	L:P:T: :3:0:0	SEE: NIL

Outline:

- Introduction to creative art and craft - Introduction to the art and its applications in interior design - materials used from historic times till date. Creative art objects - Introduction, materials, types and method, application of wall hangers, ceramics, wall textures and murals.
- Traditional crafts of India: Karnataka, Tamilnadu, Kerala, Andhra Pradesh, Goa, Rajasthan, Gujarat, Kutch, Uttar Pradesh and Orissa. Indian Art Appreciation -A study.
- Wall coverings, screens and room dividers.
- Creative Art Objects: Introduction, materials, types and method, application of wall hangers, ceramics, wall textures, murals, lamp shade, paintings, and curios etc

References

1. Anne Marie Soto, "Quick and Easy Sewing for the Home Table Toppers", Rodale Press Inc., 1995.
2. Diane Patrice, Tap Scott, "Curtains, Draperies and Shades", Lane, Menlo Park, California, 2000.
3. Katrin Cargill, "Cushions", Ryland Peters and Small, 1996.
4. Mary Neal, "Custom Draperies in Interior Design", Elsevier Science Ltd., 1982.
5. Sydney A Sykes, "Decorating English Country Styles", Webb and Bower, 1990.

Elective –4 (B) LIGHTING DESIGN		
Subject Category: DSE	Subject Code: 22IDBE65B	Total: 100 = Continuous Internal Evaluation: 100
Credits: 02	L:P:T: :3:0:0	SEE: NIL

Outline:

- Introduction to the role of lighting to enable the visual tasks to be performed efficiently and accurately.
- Applying the basic tools, technologies, and theories of lighting design to the stage and it's allied art forms.
- Theories and realities of lighting design for the various Interior spaces
- Light in Architecture and the Psychology of Light, controlling light, luminaire optics and distributions - introduction to light fixture materials and construction, and components.
- The practical application of the theories in light, color, and electricity; the use and development of lighting notation and process in developing the design; the development of various methods of graphic representation to communicate the designer's intent, management

References:

1. Michael Gillette, 'Designing with Light' 5th & 6th Ed.

Elective –4 (C) FURNITURE DESIGN		
Subject Category: DSE	Subject Code: 22IDBE65C	Total: 100 = Continuous Internal Evaluation: 100
Credits: 02	L:P:T: :3:1:0	SEE: NIL

Outline:

- The art, design and techniques of Furniture Making,
- historical overview, the Earliest Cultures, prehistory of antiquity, the early Christian & Islamic culture, the rise of European design, the classical style, the Industrial revolution, eclecticism, Indian fusion, craft & design.
- The Arts and Crafts Movement, the Bauhaus, the architects Saarinen, Alto, and Reitveld etc.
- Contemporary & Modular furniture design

PUBLICATION OF ARTICLES IN NEWSPAPERS & MAGAZINES		
Subject Category: SEC	Subject Code: 22IDBE66	Total: 50 = Continuous Internal Evaluation: 50
Credits: 01	L:P:T: :3:0:0	SEE: NIL

Content:

Based on the previous semester theoretical and practical understanding students are encouraged to come up with articles.

The current trends/research in Interiors and Built Environment to be explored for writing the article.

SPORTS & GAMES		
Subject Category: SEC	Subject Code: 22IDBE67	Total: 50 = Continuous Internal Evaluation: 50
Credits: 01	L:P:T: :0:2:0	SEE: NIL

- As per UOM syllabus for Undergraduate Degree Courses

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SEMESTER-VII

INTERNSHIP		
Subject Category: DSC	Subject Code: 22IDBE71	Total: 200 = Continuous Internal Evaluation: 100 + Semester End Examination: 100
Credits: 14	L:P:T:: 0:22:0	SEE: Viva-voce

Objectives

- To introduce the challenges of practice.
- To enable overall understanding of different stages in real life projects in practice.
- To create involvement in these stages as much as possible within the scope of a specific practice - initiation of project, development of concepts into schematic drawings, approval process, presentations and working drawings, involvement in office discussions and client meetings, integrating structural and service concerns, estimation and tendering processes, site supervision and coordination in the construction process.

Content:

Every student of under graduate courses will be required to undergo a practical training in an organization approved by the Institute for minimum of 75 calendar days.

Practical Training will be done in offices/ firms in India / abroad, empanelled by the institution. The student will attempt to learn as much of aspects outlined in the objectives, either first hand or indirectly. The progress of practical training will be assessed periodically internally through submission of log books along with work done by the students in terms of drawings, reports, etc., along with the regular progress report from the employers. The students will be evaluated based on the criteria related to their contribution in the office.

Internships will be permitted in the following three areas:

- I) Interior design / Architecture firms
- II) Interior design specializations: This may provide avenues for practice exposure include lighting design, furniture design, cost estimation, specification writing, materials and product research, strategic planning, programming, post occupancy evaluation, sustainable design, historic preservation, community development, facilities management, construction administration and culture based design
- III) Related specializations – This may include companies such as Model home design, kitchen and bath design, Art representation, Color specialist, Interior Design writing and publication firms and Architectural photography.

ADVANCED SOFTWARE FOR INTERIOR DESIGN		
Subject Category: DSC	Subject Code: 22IDBE72	Total: 100 = Continuous Internal Evaluation: 100
Credits: 02	L:P:T: :0:8:0	SEE: NIL

Objective:

- To develop with advanced computer application in interior design and built form and to equip students with skills required in using digital tools to conceive, develop and present the interior designing ideas.

Outline:

- Parametric design
- Application of latest software like Rhinoceros, etc.

RESEARCH METHODOLOGY		
Subject Category: DSC	Subject Code: 22IDBE73	Total: 100 = Continuous Internal Evaluation: 40 + Semester End Examination: 60
Credits: 03	L:P:T: :6:0:0	SEE: 03 hrs

Objective:

- To develop the fundamental knowledge of research methodology and to initiate the thesis writing.
- To understand the way of research in a professional design projects.
- To make the students to distinguish various theoretical ideologies influencing the philosophy and values of architecture.

Outline:**Module- 1 :**

Research & Research Design. Introduction, Definition, Types, Characteristics, Scope and Classifications of Research. Research Design: Meaning, Types, Factors Affecting, Basic Purpose, and Principles.

Module- 2 :

Data Collection, Types of Data, Sources of Data, Methods of Data Collection. Interpretation, Data Analysis, Correlation and Regression Analysis of two variables.

Module- 3 :

Report Writing: Meaning, Significance, Steps, Types, Findings, Suggestions, Conclusion. Ethical consideration.

References:

1. Laurel, Brenda. Design research: Methods and perspectives. MIT press, 2003.
2. Kothari, C. R. Research methodology: Methods and techniques. New Age International, 2004.
3. Gupta, S. P., and M. P. Gupta. Business statistics. Sultan Chand & Sons, 2010.
3. Sanoff, Henry. Visual research methods in design. John Wiley & Sons Incorporated, 1991.
4. Snyder, James C., ed. Architectural research. Vol. 6. Van Nostrand Reinhold Company, 1984.
5. McMillian, J; Research in education: A conceptual introduction , Harpers Collins College Publishers; NY; 1997
6. Linda Groat and David Wang; Architectural Research Methods; Wayne C Booth; Joseph M Williams; Gregory G. Colomb; The Craft of Research, 2nd Edition; Chicago guides to writing, editing and publishing;
7. Iain Borden and Kaaterina Ruedi; The Dissertation: An Architecture Student's Handbook; Architectural Press; 2000
8. Ranjith Kumar; Research Methodology- A step by step guide for beginners; Sage Publications; 2005

Elective –5

Elective –5		(A) JOURNALISM
Subject Category: DSE	Subject Code: 22IDBE74A	Total: 100 = Continuous Internal Evaluation: 100
Credits: 02	L:P:T: :4:0:0	SEE: NIL

Objective:

- It aims at helping the audience make up their own mind about a story, providing the facts alone and then letting the audience interpret those on their own.
- To obtain objectivity in journalism, journalist have to presents the facts whether or not they like or agree with those facts.

Outline:

- **Introduction:** Overview and objectives of role of writing and journalism in architecture and Interior Design; Writing and Journalism skills: research, writing, editing and criticism.
- **Creative Writing:** Techniques and methods of expressing an architectural narrative or description through forms of creative writings such as fiction, poetry, travel writing, blogging which are based on architecture or employ architecture as a context.
- **Analytical Writing:** Techniques and methods of researching, analyzing and critiquing formal and informal architecture through forms of analytical writings such as research papers, journal writings and critical essays.
- **Documentation and Technical Writing:** Techniques and methods of recording, authenticating and examining architecture through documentation and technical writings.
- **Architectural and Interior Design Journalism:** Introduction, scope and constraints of print, audio and visual journalism in the context of newspapers, radio, film, and television. Roles of an architectural journalist as a reporter, reviewer, cartoonist, interviewer, feature writer and specialist writer.

REFERENCES:

1. Wiseman, Carter (2014), "Writing Architecture: A Practical Guide to Clear Communication about the Built Environment", Trinity University Press
2. Lange, Alexandra (2012), "Writing About Architecture: Mastering the Language of Buildings and Cities", Princeton Architectural Press
3. Schmalz, Bill (2014), "The Architect's Guide to Writing: For Design and Construction Professionals", Images Publishing Dist Ac
4. Sykes, A. Krista (2007), "The Architecture Reader: Essential Writings from Vitruvius to the Present", George Braziller Inc.
5. Musa, Majd, Al-Asad, Mohammad (2007), "Architectural Criticism and Journalism", Umberto Allemandi & Co
6. Edward Jay Friedlander and John Lee (2000), "Feature Writing for Newspapers and Magazines", 4th edition, Longman.

Elective –5		(B) TEXTILE FOR INTERIOR DESIGN
Subject Category: DSE	Subject Code: 22IDBE74B	Total: 100 = Continuous Internal Evaluation: 100
Credits: 02	L:P:T::4:0:0	SEE: NIL

Objective:

- To introduce the process of co coordinating elements like color schemes, furniture's and surface finishes in a space.
- Study of types of textiles & characteristics.

Outline:

- Fabrics for interiors - Introduction, interior fabric, element, design, colour and application. Classification of fabrics for interiors - Introduction, types of fabric and its applications.
- Upholstery - Introduction, types, materials, and different techniques. Seating - sofas, chairs, chair pads, cushions - fills. Windows - sheer curtains, curtains, curtain drapes, reflecting textiles and blinds. Carpets and rugs - Introduction, types, materials, applications and its care and maintenance. Bathroom - shower curtains, terry towels, robes.
- Interior textiles for rooms - Introduction, types, materials and applications in sheets, pillow cases, blankets, mattress covers, dust ruffles. Table textiles - table coverings, table matts, table cloth, napkins, coasters. Care and maintenance - Introduction, types of materials - stain removal of upholstery, sofas, cushions, carpets, table linen, bed room and bathroom linen.

References

1. Anne Marie Soto, "Quick and Easy Sewing for the Home Table Toppers", Rodale Press Inc., 1995.
2. Diane Patrice, Tap Scott, "Curtains, Draperies and Shades", Lane, Menlo Park, California, 2000.
3. Katrin Cargill, "Cushions", Ryland Peters and Small, 1996.
4. Mary Neal, "Custom Draperies in Interior Design", Elsevier Science Ltd., 1982.
5. Sydney A Sykes, "Decorating English Country Styles", Webb and Bower, 1990.

OPEN ELECTIVE 1		
Subject Category: OE	Subject Code: 22IDBE75	Total: 100 = Continuous Internal Evaluation: 100
Credits: 02	L:P:T::2:0:0	SEE: NIL

Outline:

- Students may enroll in SWAYAM/NPTEL courses or any other similar platform.
- Certificate to be submitted to college for credits to be awarded.

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SEMESTER-VIII

DESIGN STUDIO WITH SIMULATION		
Subject Category: DSC	Subject Code: 22IDBE81	Total: 200 = Continuous Internal Evaluation: 100 + Semester End Examination: 100
Credits: 10	L:P:T:: 4:14:0	SEE: Viva-voce

Objectives:

- To enable students to apply computer knowledge in the design process.

Outline:

BIM Project - Students to learn any BIM software (Building Information Modelling, eg. REVIT / ARCHICAD etc.) and an interior exercise to be resolved completely using the BIM interface.

OR

Projects requiring energy control - Students to learn any Energy/Climate simulating software (EDGE / Climate Consultant etc.) and an interior exercise to be resolved completely using the interface.

OR

Projects requiring parametric control/simulation - Students to learn any parametric software (Eg. Rhino-Grasshopper, Blender-Sverchok etc.) and an interior exercise to be resolved completely using the interface.

References:

Software reference manuals/tutorials and case studies.

ADVANCED MATERIALS AND TECHNIQUES		
Subject Category: DSC	Subject Code: 22IDBE82	Total: 100 = Continuous Internal Evaluation: 40 + Semester End Examination: 60
Credits: 03	L:P:T:: 2:2:0	SEE: 03 hrs

Objective:

- To understand the various materials used in construction.
- To learn the methods and techniques of interior construction.

Outline:

Module-1

Bamboo Construction: Detailing of walls ,wall panels ,doors, windows and roof in Bamboo.

Module -2

Prefabrication in India: Advantages and relevance in the Indian Context. Prefabrication: manufacture processes. Study of examples.

Module-3

Introduction to advanced methods of Building Construction: CAD/CAM fabrication and 3D printing.

Module-4

Latest materials and technology used for Interiors- Smart materials : properties of smart materials, applications in building industry. Nano materials: Introduction to Nano technology in building materials, applications in Building Industry.

Module -5

MIVAN Technology, Suspended flooring. Green building concepts, construction, materials, zero energy building concepts

References:

1. Chudley “Construction Technology”
2. Barry “Construction of buildings”
3. https://www.humanitarianlibrary.org/sites/default/files/2014/02/INBAR_technical_report_no20.pdf
4. <http://naturalhomes.org/img/bamboo-in-construction.pdf>

ENERGY CONSERVATION BUILDING CODE FOR INTERIORS		
Subject Category: DSC	Subject Code: 22IDBE83	Total: 100 = Continuous Internal Evaluation: 40 + Semester End Examination: 60
Credits: 03	L:P:T:: 3:0:0	SEE: 03 hrs

Objective:

- The objectives include creating awareness and understanding of the concept of energy efficiency in buildings that respond to the climate, material and natural resources.
- Developing analytical skills to understand the energy consumption and hence cater to reduction.
- To create awareness about tools and practices to calculate energy consumption.
- The subject will be taught in congruence with the Design studio, and assignments for the subject will be linked to the design exercises to achieve higher level of learning and understanding the practical application of the same.

Outline:**Module- 1:**

Introduction of Energy In Buildings and Parameters Affecting Energy Consumption in Buildings • Energy in building construction • Building energy use • Embodied energy and operational energy, Life cycle Evaluation • Parameters affecting energy consumption in buildings, Demonstrate his/her capacity to understand the building as a whole with its integrated systems

Module- 2:

The concept of Energy audit • Phases of energy audit • Energy conserving opportunities • Energy audit instruments and measurements • Energy audit checklist

Module- 3:

Building Integrated Renewable and alternate energy systems

- Passive building design concepts • Solar thermal option, energy efficient lighting, HVAC design

Module- 4:

Building automation and control and Best management practices

- Fundamentals of control systems • Types of control systems • The impact of automation • Case studies from various climatic zones of energy efficient architecture.

Module- 5:

Energy Efficient system. Modification of microclimate through landscape elements for energy conservation. Energy conservation through site selection, siting & orientation. Energy conservation through integration of building and site, site planning & site design.

References:

1. Practical handbook on Energy conservation in buildings Edited by: Indian Buildings congress
2. ECBC Manual
3. Wayne Forster and Dean Hawkes, “Energy Efficient Buildings: Architecture, Engineering, and Environment”. W.W. Norton Company Inc. 2002.
4. MiliMajumdar, “Energy-Efficient Buildings in India”, The Energy and Resources Institute (TERI), 2009.
5. Satyajit Ghosh and Abhinav Dhaka, “Green Structures: Energy Efficient Buildings, CRS Press (Taylor & Francis Group), 2015.
6. Bureau of Energy Efficiency, India. Energy Conservation Building Code, 2006.

ENTREPRENEURSHIP		
Subject Category: DSC	Subject Code: 22IDBE84	Total: 100 = Continuous Internal Evaluation: 40 + Semester End Examination: 60
Credits: 03	L:P:T:: 3:0:0	SEE: 03 hrs

Objective:

- To encourage for self-employment as a viable option for earning dignified means of living.
- To appreciate the dynamic changes happening in the economy.
- To acquaint the students about the role of Entrepreneurship in the growth and economic development of the nation.
- To promote Entrepreneurship as life-skills to improve quality of life, skills of creation and management of entrepreneurial pursuits

Outline:**Module- 1:**

Small Scale Industries and Role of Central & State Governments in promoting Small Scale Industry

Module-2:

Concept of Entrepreneurship, Characteristics, Role and Traits of entrepreneurs, Factors influencing entrepreneurship, Classification of Entrepreneurial types — Success factors for entrepreneurs.

Module- 3

Evolution of entrepreneurship in India, a study of business houses

Module- 4:

Small Business – Definition and Characteristics, Small, Ancillary, Tiny sector, Village industries – Role of Small Scale business in India's economic development.

Module- 5:

PREPARING THE BUSINESS PLAN (BP) :

Business Plan, Importance of BP, Preparation of BP, Typical BP format - Financial aspects of the BP - Marketing aspects of the BP - Human Resource aspects of the BP - Technical aspects of the BP - Social aspects of the BP - Preparation of BP - Common pitfalls to be avoided in preparation of a BP

OPEN ELECTIVE 2		
Subject Category: OE	Subject Code: 22IDBE85	Total: 100 = Continuous Internal Evaluation: 100
Credits: 02	L:P:T:: 2:0:0	SEE: NIL

Outline:

- Students may enroll in SWAYAM/NPTEL courses or any other similar platform.
- Certificate to be submitted to college for credits to be awarded.

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