Aniversity of Mumbai

Website – mu.ac.in Email id - <u>dr.aams@fort.mu.ac.in</u> <u>aams3@mu.ac.in</u>



Academic Authorities, Meetings & Services (AAMS) Room No. 128, M. G. Road, Fort, Mumbai – 400 032. Tel. 022-68320033

Re- accredited with A ++ Grade (CGPA 3.65) by NAAC Category- I University Status awarded by UGC

No. AAMS_UGS/ICD/2024-25/429

Date : 24th March, 2025.

To, The Director, Garware Institute of Career Education and Development, Vidyanagari Santacruz (East) <u>Mumbai – 400 098</u>.

Sub : Bachelor of Interior Design (Three year) (Sem I & II)

Sir,

With reference to the subject noted above, this is to inform you that the recommendations made by the Advisory Committee & Board of Management of Garware Institute of Career Education & Development at its Meeting held on 4th September, 2023 & resolution passed by the Board of Deans at its meeting held on 9th August, 2023 vide Item No. 9.2 have been accepted by the Academic Council at its meeting held on 1st November, 2023 vide Item no. 9.3 (C) 5 (N) and subsequently approved by the Management Council at its meeting held on 1st November, 2023 vide Item no. 9.3 (C) 5 (N) and subsequently approved by the Management Council at its meeting held on 14th August, 2024 vide Item No. 6 that in accordance therewith, in exercise of the powers conferred upon the Management Council under Section 74(4) of the Maharashtra Public Universities Act, 2016 (Mah. Act No. VI of 2017) the following program with Ordinance for Title of the Program, Eligibility and Regulation numbers for Duration of Program, Intake Capacity, Scheme of Examinations, Standard of Passing and Credit Structure along with syllabus of Bachelor of Interior Design (Sem I & II) (Appendix – 'A') have been introduced and the same have been brought into force with effect from the academic year <u>2023-24</u>.

The New Ordinances & Regulations as per NEP 2020 is as follows :-

Sr. No.	Name of the Program	Ordinance no. for Title	Ordinance no. for Eligibility	Duration
Α	U.G. Certificate in Interior Design	O.GUA – 523 A	O.GUA - 524 A	One year
В	U.G. Diploma in Interior Design	O.GUA – 523 B	O.GUA - 524 B	Two year
С	Bachelor of Interior Design	O.GUA – 523 C	O.GUA - 524 C	Three year
D	Bachelor of (Interior Design)	O.GUA – 523 D	O.GUA – 524 D	Four year

2/-

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No. AAMS_UGS/ICD/2024-25/429

Date: 24th March, 2025

Regulation No						
Duration	R.GUA – 556					
Intake Capacity	R.GUA – 557					
Scheme of examination	R.GUA - 558					
Standard of Passing	R.GUA – 559					
Credit Structure	R.GUA – 560 A					
	R.GUA – 560 B					
	R.GUA – 560 C					
	R.GUA – 560 D					
	R.GUA – 560 E					
	R.GUA – 560 F					
	R.GUA - 560 G					
	R.GUA – 560 H					

(Dr. Prasad Karande) REGISTRAR

<u>A.C/9.3(C)5(N)/01/11/2023</u> M.C/6/14/8/2024

Copy forwarded with Compliments for information to:-

- 1) The Chairman, Board of Deans
- 2) The Dean, Faculty of Interdisciplinary Studies.
- 3) The Director, Board of Examinations and Evaluation,
- 4) The Director, Board of Students Development,
- 5) The Director, Department of Information & Communication Technology,
- 6) The Co-ordinator, MKCL.

Cop	y forwarded for information and necessary action to :-
1	The Deputy Registrar, (Admissions, Enrolment, Eligibility and Migration Dept)(AEM), <u>dr@eligi.mu.ac.in</u>
2	The Deputy Registrar, Result unit, Vidyanagari drresults@exam.mu.ac.in
3	The Deputy Registrar, Marks and Certificate Unit,. Vidyanagari dr.verification@mu.ac.in
4	The Deputy Registrar, Appointment Unit, Vidyanagari dr.appointment@exam.mu.ac.in
5	The Deputy Registrar, CAP Unit, Vidyanagari <u>cap.exam@mu.ac.in</u>
6	The Deputy Registrar, College Affiliations & Development Department (CAD), <u>deputyregistrar.uni@gmail.com</u>
7	The Deputy Registrar, PRO, Fort, (Publication Section), <u>Pro@mu.ac.in</u>
8	The Deputy Registrar, Executive Authorities Section (EA) eau120@fort.mu.ac.in
	He is requested to treat this as action taken report on the concerned resolution adopted by the Academic Council referred to the above circular.
9	The Deputy Registrar, Research Administration & Promotion Cell (RAPC), <u>rapc@mu.ac.in</u>
10	The Deputy Registrar, Academic Appointments & Quality Assurance (AAQA) dy.registrar.tau.fort.mu.ac.in <u>ar.tau@fort.mu.ac.in</u>
11	The Deputy Registrar, College Teachers Approval Unit (CTA), concolsection@gmail.com
12	The Deputy Registrars, Finance & Accounts Section, fort draccounts@fort.mu.ac.in
13	The Deputy Registrar, Election Section, Fort drelection@election.mu.ac.in
14	The Assistant Registrar, Administrative Sub-Campus Thane, <u>thanesubcampus@mu.ac.in</u>
15	The Assistant Registrar, School of Engg. & Applied Sciences, Kalyan, ar.seask@mu.ac.in
16	The Assistant Registrar, Ratnagiri Sub-centre, Ratnagiri, ratnagirisubcentar@gmail.com
17	The Director, Centre for Distance and Online Education (CDOE), Vidyanagari, <u>director@idol.mu.ac.in</u>
18	Director, Innovation, Incubation and Linkages, Dr. Sachin Laddha pinkumanno@gmail.com
19	Director, Department of Lifelong Learning and Extension (DLLE), dlleuniversityofmumbai@gmail.com

Сор	Copy for information :-							
1	P.A to Hon'ble Vice-Chancellor,							
	vice-chancellor@mu.ac.in							
2	P.A to Pro-Vice-Chancellor							
	pvc@fort.mu.ac.in							
3	P.A to Registrar,							
	registrar@fort.mu.ac.in							
4	P.A to all Deans of all Faculties							
5	P.A to Finance & Account Officers, (F & A.O),							
	camu@accounts.mu.ac.in							

To,

1	The Chairman, Board of Deans								
	pvc@fort.mu.ac.in								
2	Faculty of Humanities,								
	Dean								
	1. Prof.Anil Singh								
	Draniisingn129@gmail.com								
	Aggagiata Daan								
	Associate Dean								
	2. Dr.Suchitra Naik								
	Naiksuchitra27@gmail.com								
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	mkarne@economics.mu.ac.in								
	Faculty of Commerce & Management,								
	Dean								
	1. Dr.Kavita Laghate								
	kavitalaghate@jbims.mu.ac.in								
	Associate Dean								
	2. Dr.Ravikant Balkrishna Sangurde								
	Ravikant.s.@somaiya.edu								
	3. Prin.Kishori Bhagat								
	<u>KISNORIDNAGAT@rediffmail.com</u>								

	Faculty of Science & Technology
	Dean 1. Prof. Shivram Garje <u>ssgarje@chem.mu.ac.in</u>
	Associate Dean
	2. Dr. Madhav R. Rajwade <u>Madhavr64@gmail.com</u>
	3. Prin. Deven Shah <u>sir.deven@gmail.com</u>
	Faculty of Inter-Disciplinary Studies,
	Dean
	1.Dr. Anil K. Singh
	aksingh@trcl.org.in
	Associate Dean
	2 Prin Chadrashekhar Ashok Chakradeo
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3	Chairman, Board of Studies,
4	The Director, Board of Examinations and Evaluation,
	dboee@exam.mu.ac.in
5	The Director, Board of Students Development,
_	dsd@mu.ac.in DSW direcotr@dsw.mu.ac.in
6	The Director, Department of Information & Communication Technology,
	director.dict@mu.ac.in

AC-1/11/2023 Item No- 9.3 (C) - 5

As Per NEP 2020

Aniversity of Mumbai



Title of the program

- A- U.G. Certificate in Interior Design
- B- U.G. Diploma in Interior Design
- C- Bachelor of Interior Design
- D- Bachelor of Interior Design

(Garware Institute of Career Education and Development)

Syllabus for Semester- Semester I and II

Ref: GR dated 20th April,2023 for Credit Structure of UG

(with effect from the academic year 2023-24 Progressively)

	UNIVERSITY OF MUMBAI								
	(AS PER NEP 2020)								
Sr. No.	Heading	Particulars							
1	Title of program O: <u>GUA – 523 A</u>	A	U.G. Certificate in Interior Design						
	O: <u>GUA – 523</u> B	В	U.G. Diploma in Interior Design						
	O: <u>GUA – 523 C</u>	С	Bachelor of Interior Design						
	O: <u>GUA – 523 </u> D	D	Bachelor of Interior Design						
2	Eligibility O: <u>GUA – 524 A</u>	A	The candidate shall be HSC from any stream and Candidate must have appeared Elementary &/or Intermediate Drawing grade examination. In case, candidate has appeared but not cleared elementary &/or intermediate drawing grade examination candidate will undergo 30 hours of Bridge classes with the institute at an extra fee. OR In case candidate has not appeared for elementary/Intermediate drawing exam. He must have Technical Drawing as a subject either in 9 th & 10 th Std. or 11 th & 12 th Std. Admissions on the basis of Written Test & Interview. OR Passed Equivalent Academic Level 4.0						
	O: <u>GUA – 524 B</u>	В	 The candidate who has successfully completed U.G. Certificate in Interior Design. OR Passed Equivalent Academic Level 4.5 The candidate who's Under Graduate Certificate credits are 60% equivalent to U.G. Diploma in Interior Design & he/she 						

		earns minimum 8 Credits from U.G. Certificate in Interior Design.
		3. As per NEP criteria on the basis of RPL- Recognition of Prior Learning, Candidate to be admitted to 2 nd Year subject to He/she securing minimum 50% in the 1 st Year assessment of U.G. Certificate in Interior Design.
O: <u>GUA – 524 C</u>	C	1. The candidate who has successfully completed U.G. Diploma in Interior Design. OR Passed Equivalent Academic Level 5.0
		2. The candidate who's Under Graduate Diploma credits are 60% equivalent to B.A. Interior Design & he/she earns minimum 8 Credits from U.G. Diploma in Interior Design.
		3. As per NEP criteria on the basis of RPL- Recognition of Prior Learning, Candidate to be admitted to 3 rd Year subject to He/she securing minimum 50% in the 2 nd Year assessment of U.G. Diploma in Interior Design.
O: <u>GUA – 524 D</u>	D	1. The candidate who has successfully completed Bachelor in Interior Design OR Passed Equivalent Academic Level 5.5
		 The candidate who's Under Graduate Degree credits are 60% equivalent to Bachelor (Hons.) in Interior Design & he/she earns minimum 8 Credits from Bachelor in Interior Design. As per NEP criteria on the basis of RPL- Recognition of Prior Learning, Candidate to be admitted to 4th Year subject to He/she
		assessment of Bachelor in Interior Design.

3	Duration of Program	A 1 Year
	R: <u>GUA – 556</u>	B 2 Years
		C 3 Years
		D 4 Years
4	R: <u>GUA – 557</u>	60
	Intake Capacity	NED
5	R: <u>GUA – 558</u>	NEP 50% Internal Continuous Evaluation
	Scheme of Examination	50% External Semester End Examination
		Individual Passing in Internal and External
		Examination
6	Standards of Passing	50% in each component
	R: <u>GUA – 559</u>	
7	Credit Structure	Attached herewith
	R: GUA – 560 A	
	R: GUA – 560 B	
	R: GUA – 560 C	
	R: GUA – 560 D	
	R: GUA – 560 E	
	R: GUA – 560 F	
	R: GUA – 560 G	
	R: GUA = 560 H	
8	Semesters	A Sem I & II
		B Sem I, II, III, & IV
		C Sem I, II, III, IV, V, & VI
		D Sem I, II, III, IV, V, VI, VII & VIII
9	Program Academic Level	A 4.5
		в 5.0
		C 5.5
		D 6.0
10	Pattern	Semester
11	Status	New

12 To be imp Academic Progressiv	emented from Year ely	From Academic Year 2023-24	
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Kmvayak

Dr. Keyurkumar M. Nayak, Director, UM-GICED

Prof.(Dr.) Anil Kumar Singh Dean, Faculty of Interdisciplinary Studies

Preamble

1) Introduction

Bachelor in Interior Design is a career-oriented course that gives chance and opportunity to the deserving candidates, who have had no exposure to the creative field like 'INTERIOR DESIGN'. After graduation, this course enables the candidate to make meaningful participation in the building industry, gain appropriate employment, become entrepreneurs and be self-supporting.

2) Aims and Objectives

The Course covers Interior Designing of residential and commercial premises by creating meaningful, functional and habitable spaces. Thus, making the students aware of how the space influences our identity, productivity and wellness.

It aims at studying the design and drawing aspects by using Computer aided design methods. As a part of the curriculum the candidate has to undergo project training in the industry to match theory with practical on the job experience.

The student has to learn representative skills through theory lectures, studios, workshops, case studies, live projects, field trips, interior exhibitions, industry professional lectures etc. To enhance these skills further, a dedicated team of faculties focus on the holistic approach of overall development and growth of the students.

The program helps the student to become an independent and effective learner and opens up a range of prospects on completion of the course.

3) Learning Outcomes

a) To be academically sound within the field of interior and to make connections to related disciplines through oral and graphical communication.

b) To provide the foundation for the further development of the candidate in the professional area so that he/she can contribute towards the society in the respective field as a responsible professional.

c) To develop strong set of values that will provide the basis of a comprehensive critical learning ability which will help the candidate to be technically sound and understand related industry needs.

4) Any other point (if any)

The program focuses on the use and practice of environment friendly sustainable green building materials and technology while designing and planning.

The student learns to observe and practice professional ethics while working in the industry with clients, contractors and consultants.

5) Credit Structure of the program – Parishisth- 2 R:_____A

Level	Semester	Semester Major		Minor	OE	VSC,	AEC, VEC,	OJT, FP,	Cum.	Degree
		Mandatory	Electives			SEC (VSEC)	IKS	CEP, CC, RP	Cr./ Sem.	/ Cum. Cr.
	I	4-6 (4+2) DESIGN-I (4) CONSTRU CTION-I (2)		-	2+2 DRAWING -I (2) SERVICES -(THEORY AND APPLICAT IONS) (2) ICT (4) GRAPHIC S-I (2) FREEHAN D SKETCHI NG AND DRAWING (2)	VSC:2, SERVICES I- (2) SEC:2 APPLIED TECHNOL OGY-I (2)	AEC:2, PRESENTATION AND COMMUNICATION SKILLS-THEORY OF MATERIALS-I (2) IKS:2 HISTORY OF DESIGN (INDIAN FURNITURE /MATERIALS)-I (2) VEC:2, ENVIRONMENT STUDY (2)	CC:2 EVENT MANAGE MENT) (2)	22	
4.5	II	4- 6 (4+2) DESIGN-II (4) CONSTRU CTION-II (2)		2 THEO RY OF MATE RIAL S-II (2)	2+2 DRAWING -II (2) SERVICES -(THEORY AND APPLICAT IONS) (2) ICT (4) GRAPHIC S-II (2) FREEHAN D SKETCHI NG AND DRAWING (2)	VSC:2, SERVICES II- (2) SEC:2 APPLIED TECHNOL OGY-II (2)	AEC:2, PRESENTATION AND COMMUNICATION SKILLS-THEORY OF MATERIALS-II (2) VEC:2 ENVIRONMENT STUDY (2)	CC:2 FREEHA ND SKETCHI NG AND RENDERI NG (2)	22	Certifi cate 44
	Cum Cr.	12	0	2	8	8	10	4	44	
Exit o Contin	ption: Awarc nue with Maj	l of UG Certif jor and Minor	icate in Ma	jor with 4	40-44 credits a	nd an additio	nal 4 credits core NSQ	F course/ Inte	ernship	OR

R:		B								
Level	Semester	Major		Minor	OE	VSC,	AEC,	OJT, FP,	Cum.	Degree/
		Mandatory	Elec tive s			SEC (VSEC)	VEC, IKS	CEP, CC, RP	Cr./ Sem.	Cum. Cr.
5.0	III	8(2*4) DESIGN-III (4) CONSTRU CTION-III (4)		4 THEORY OF MATERIA LS-III (4)	2 FURNITURE DETAILS (2) FURNITURE DETAILS (ACCESSOR Y DESIGN) (2) AUTOCAD-I (2) DRAWING SKETCHIN G AND RENDERIN G (2) SERVICES- (THEORY AND APPLICATI ONS) (2)	VSC:2, SERVICES III- (2)	AEC:2 AutoCAD -II (2)	FP:2 FIELD PROJECT WORK (2) CC:2 EVENT MANAGEMENT- (2)	22	UG Diploma 88
	IV	8(2*4) DESIGN-IV (4) CONSTRU CTION-IV (4)		4 THEORY OF MATERIA LS-IV (4)	2 LANDSCAP E DESIGN (2) LANDSCAP E DESIGN (PROJECT) (2) DRAWING AND GRAPHICS (2) SERVICES- (THEORY AND APPLICATI ONS) (2)	SEC:2 SERVICES IV (2)	AEC:2 SKETCH UP (2)	CEP: 2 DESIGN- DEVELOP EXTERIOR SPACES (2) CC:2 DRAWING SKETCHING RENDERING (2)	22	
T •	Cum Cr.	28	0	10	12	12	14	12 14	88	
Exit op	otion; Award	of UG Diplon	ia in M	ajor and Mir	or with 80-88 c Continue with M	redits and an lajor and Min	additional 4 or	credits core NSQF cou	rse/ Inte	rnship OR

R:		C								
	v	(2*4+2) DESIGN-V (4) CONSTRUCTION- V (4) WORKING DRAWING (2)	4 SUSTAINABLE INTERIORS/ FURNITURE DESIGN/ MODERN SPACE PLANNING SOLUTIONS/ INTERIOR LIGHTING (4) SKETCHUP/ VRAY (4) SERVICES- (THEORY AND APPLICATION S) (2)	4-6 THEORY OF MATERIALS-V (4)		VSC: 2- 4 SERVICES- V (2)		FP/CEP: 2 FP WORKING DRAWING- PROJECT (2)	22	UG
5.5	VI	(2*4+2) DESIGN- VI (4) CONSTRUCTION- VI (4) WORKING DRAWING (2)	4 SUSTAINABLE INTERIORS/ FURNITURE DESIGN/ MODERN SPACE PLANNING SOLUTIONS/ INTERIOR LIGHTING (4) PHOTOSHOP/ LUMION (4) WORKING DRAWING- APPLICATION S (2)	4 SPECIALIZATION CASE STUDY (4)				OJT :4 INTERNSHIP (4)	22	Degree 132
	Cum Cr.	48	8	18	12	14	14	18	132	
Exit op	otion: Aw	ard of UG Degree in	Major with 120-1	32 credits OR Contin	ue w	ith Major and	Mine	or	1	1

R:		D								
	VII	3*4+2) DESIGN-VII DISSERTATION (4) SPECIALIZATION IN ONE MATERIAL (4) WORKING DRAWING (4) GREEN BUILDING TECHNOLOGY- (THEORY AND APPLICATIONS) (2)	4 REVIT OR 3DS MAX (4)	RM:4 GREEN BUILDING TECHNOLOGY (4)					22	UG Honours
6.0	VIII Cum Cr.	3*4+2) DESIGN-VII DISSERTATION (4) SPECIALIZATION IN ONE MATERIAL (4) ENTREPRENEUR SHIP (4) GROOMING SESSION (2) 76	4 REVIT OR 3DS MAX (4) 16	22	12	14	14	OJT:4 INTERNSHIP (4) 22	22 17 6	Degree 176
Four `	Year UG	Honours Degree in	n Major and M	linor with 160-176	credits	S	1	1		L

Kmvayak.

Dr. Keyurkumar M. Nayak, Director, UM-GICED

Prof.(Dr.) Anil Kumar Singh Dean, Faculty of Interdisciplinary Studies

Credit Structure of the program

	Subject Code	Core Subject	Asses	sment Pat	tern	ן	Feaching H		
		Topics	Internal Marks	External Marks	Total Marks (CA)	Theor y Hours	Practic al hours	Total Hours	Total Credits
		•	Major M	andatory	1	•			
	BIDS1MJP1	Design -I	50	50	100	45	30	75	4
	BIDS1MJP2	Construction-I	25	25	50	15	30	45	2
		Op	en Electives	(Any Two)					
	BIDS1P3A	Drawing-I	25	25	50	15	30	45	2
	BIDSIP3B	Services- (Theory and Applications)	25	25	50	30	-	30	2
	BIDS1P3C	Graphics-I	25	25	50	15	30	45	2
S e			OR						
m	BIDSIP3D	ICT	100	-	100	60	-	60	4
s			OR						
t									
e r	BIDS1P3E	Freehand Sketching and Drawing – I	25	25	50	15	30	45	2
- 1	BIDS1P3F	Freehand Sketching and Drawing – II	25	25	50	15	30	45	2
		Voca	tional Skill (Course (VSC	C)				
	BIDS1P4	Services-I	25	25	50	30	-	30	2
		Skill E	nhancement	Course (SE	EC)	•	•		
	BIDS1P5	Applied Technology-I	25	25	50	15	30	45	2
		Ability	Enhancemen	nt Course (A	EC)	•	•		
	BIDS1P6	Presentation and Communication Skills-Theory of Materials-I	25	25	50	15	30	45	2
		India	ı Knowledge	System (IK	S)				
	BIDS1P7	History of Design (Indian Furniture/ Materials)	25	25	50	15	30	45	2
		Value	Education	Course (VE	C)		-		
	BIDS1P8	Environment study	25	25	50	30	-	30	2
		Co-	Curricular (Course (CC)					
	BIDS1P9	Event Management	50	-	50	-	60	60	2
		Total	300	250	550	195	270	465	22

			Semester	II						
			Major Man	datory						
	BIDS2MJP 10	Design -II	50	50	100	45	30	75	4	
	BIDS2MJP 11	Construction-II	25	25	50	15	30	45	2	
			Mino	r						
	BIDS2MRP12	Theory of Materials - II	25	25	50	15	30	45	2	
		Op	en Electives((Any Two)						
	BIDS2P13A	Drawing-II	25	25	50	15	30	45	2	
	BIDS2P13B	Services (Theory and Applications)	25	25	50	30	-	30	2	
S	BIDS2P13D	Graphics-II	25	25	50	15	30	45	2	
e m	OR									
e s	BIDS2P13C	ICT	100	-	100	60	-	60	4	
ť			OR							
e r	BIDS2P13D	Freehand Sketching and Drawing - I	25	25	50	15	30	45	2	
- T	BIDS2P13E	Freehand Sketching and Drawing- II	25	25	50	15	30	45	2	
T		Voca	tional Skill C	Course (VSC	!)					
•	BIDS2P14	Services-II	25	25	50	30	-	30	2	
		Skill E	nhancement	Course (SE	C)					
	BIDS2P15	Applied Technology-II	25	25	50	15	30	45	2	
		Ability	Enhancemen	t Course (A	EC)					
	BIDS2P16	Presentation and Communication Skills-Theory of Materials-II	25	25	50	15	30	45	2	
		Value	Education C	Course (VEC	C)					
	BIDS2P17	Environment study	25	25	50	30	-	30	2	
	DIDCOD10	Event Management	Curricular C	course (CC)	50		۲۵	60	2	
	DID32P18		50	-	50	-	00	00	4	
		Total	300	250	550	210	240	450	22	

	Мо	SEM III	tory					
			101 y	100	15	20	75	4
BIDS3MJP19	Design-III	50	50	100	45	30	/5	4
BIDS3MJP20	Construction-III	50	50	100	45	30	75	4
		Minor						
BIDS3MRP21	Theory of Materials-III	50	50	100	45	30	75	4
	Open E	Electives (A	ny One)					
BIDS3P22A	Furniture Details	25	25	50	15	30	45	2
BIDS3P22B	Furniture Details – Accessory Design	25	25	50	15	30	45	2
BIDS3P22C	AutoCAD- I	50	-	50	30	-	30	2
BIDS3P22D	Drawing Sketching and Rendering- I	25	25	50	15	30	45	2
BIDS3P22E	Drawing Sketching and Rendering- II	25	25	50	15	30	45	2
BIDS3P22F	Services (Theory and Applications)	25	25	50	30	-	30	2
	Vocationa	al Skill Co	urse (VSC)					l
BIDS3P23	Services-III	25	25	50	30	-	30	2
	Ability Enha	ancement	Course (AE	C)				
BIDS3P24	AutoCAD- II	50	-	50	30	-	30	2
	1	Field Proje	ect					
BIDS3P25	Field project work	50	-	50	-	60	60	2
	Co-Curricular Course (CC)							
BIDS3P26	Event Management- Fine arts, poster making, stall design	50	-	50	-	60	60	2
	Total	325	225	550	225	210	435	22
		SEM IV						
	Ma	jor Manda	ntory					
BIDS4MJP27	Design-IV	50	50	100	45	30	75	4
BIDS4MJP28	Construction-IV	50	50	100	45	30	75	4
	•	Minor						
BIDS4MRP29	Theory of Materials-IV	50	50	100	45	30	75	4
	Open H	Electives (A	ny One)			L		
BIDS4P30A	Landscape Design	25	25	50	15	30	45	2
BIDS4P30B	Landscape Design – Project	25	25	50	15	30	45	2
BIDS4P30C	Drawing and Graphics	25	25	50	15	30	45	2
BIDS4P30D	Drawing Sketching and Rendering	25	25	50	15	30	45	2
BIDS4P30E	Services- (Theory and Applications)	25	25	50	30	-	30	2
	Skill Enha	ncement C	ourse (SEC))	·	•		
BIDS4P31	Services-IV	25	25	50	30	-	30	2
	Ability Enha	ancement (Course (AE	C)			•	•
BIDS4P32	Sketchup	50	-	50	30		30	2
	Community	y Engagem	ent Program	n				
BIDS4P33	Design - Develop exterior spaces	50	-	50		60	60	2
	Co-Curricular Course (CC)							
BIDS4P34	Event Management	50	-	50	-	60	60	2
	Total	325	225	550	225	210	435	22

		SEM	[V					
		Major Ma	ndatory					
BIDS5MJP3 5	Design-V	50	50	100	45	30	75	4
BIDS5MJP3	Construction-V	50	50	100	45	30	75	4
BIDS5MJP3 7	Working Drawing	25	25	50	15	30	45	2
		Electives (A	Any One)		1			
BIDS5P38A	Sustainable interiors	50	50	100	45	30	75	4
BIDS5P38B	Furniture design	50	50	100	45	30	75	4
BIDS5P38C	Modern space planning solutions	50	50	100	45	30	75	4
BIDS5P38D	Interior lighting	50	50	100	45	30	75	4
		OF	κ '	1		I	1	1
BIDS5P38E	Sketchup/VRay	50	-	50	30	-	30	2
BIDS5P38F	Services- (Theory and Applications)	25	25	50	30	-	30	2
		Min	or	•	•			
BIDS5MRP 39	Theory of Materials-V	50	50	100	45	30	75	4
	Voca	tional Skill	Course (VS	C)		I		
BIDS5P40	Services-V	25	25	50	30	-	30	2
		Field P	roject	1	1	1	1	1
BIDS5P41	Working Drawing- Project	50	-	50	-	60	60	2
	Total	275	275	550	240	180	420	22
		SEM	VI					
		Major Ma	ndatory					
BIDS6P42	Design-VI	50	50	100	45	30	75	4
BIDS6P43	Construction-VI	50	50	100	45	30	75	4
BIDS6P44	Working Drawing	25	25	50	15	30	45	2
		Electives (A	Any One)					
BIDS6P45A	Sustainable interiors	50	50	100	45	30	75	4
BIDS6P45B	Furniture design	50	50	100	45	30	75	4
BIDS6P45C	Modern space planning solutions	50	50	100	45	30	75	4
BIDS0P45D	Interior lighting	30	50	100	43	50	15	4
BIDS6D45E	Photoshop/Lumion	OF	K	50	30		30	2
DIDS0P4JE	Working Drowing	25		50	30	- 20	30	2
DID201421	working Drawing	23	23	50	15	50	43	Z
	Specialization Case Study	Min	or	100	/15	30	75	Δ
BIDGEDIE	Specialization Case Study	0		100	43	50	15	+
BIDS6P46		Un job ti	raining	100	20	60	00 8 1	1
BIDS6P46 BIDS6P47	Internship	100	-	100	50	00	90 0 4	4
BIDS6P46 BIDS6P47	Internship	100	-	100	30	00	weeks	4

		SEM V	VII					
		Major Mai	ndatory					
BIDS7MJP4 8	Design-VII Dissertation	100	-	100	45	30	75	4
BIDS7MJP4 9	Specialization in One Material	50	50	100	45	30	75	4
BIDS7MJP5 0	Working Drawing	50	50	100	45	30	75	4
BIDS7P51	Green building technology- (Theory and Applications)	25	25	50	15	30	45	2
Electives (Any One)								
BIDS7P52A	Revit	100	-	100	60	-	60	4
BIDS7P52B	3DS MAX	100	-	100	60	-	60	4
		Mino	r					
BIDS7P53	Research Methodology- Green building technology	100	-	100	45	30	75	4
	Total	425	125	550	25 5	15 0	405	22
	Ma	uor Mandato	rv Sem VII	[
	Design VII Discontation			100	45	20	75	4
BIDS8MJP5 4	Design- v II Dissertation	100	-	100	45	30	/5	4
BIDS8MJP5 5	Specialization in One Material	100	-	100	45	30	75	4
BIDS8MJP5 6	Entrepreneurship	50	50	100	60	-	60	4
BIDS8MJP5 7	Grooming session	25	25	50	15	30	45	2
		Electives (A	ny One)					•
BIDS8P58A	Revit	100	-	100	60	-	60	4
BIDS8P58B	3DS MAX	100	-	100	60	-	60	4
		On job tr	aining	1				
BIDS8P59	Internship	100	-	100	45	30	75	4
	Total	550	-	550	270	120	390	22

Sem.-I

BID REVISED SYLLABUS (4 YEARS) SEM I TO SEM IV

SEMESTER I

The First Semester covers a range of fundamental studies of interior space and build form at human scale, developing skills, which include drawing techniques, surveying and building constructions. Designing of objects, spaces which start in the first week of the course, provides the student with a means of achieving a high degree of proficiency in both theory and practice of interior design. The First Semester offers a comprehensive view and experience of the field of interior with the knowledge and skills, which can be assumed at this stage. Along with design study, the student will study a number of theoretical subjects including history, technology and humanities. In process and skills, they will learn about design process and management. Students will be able to develop their visualization skills through basic 3D models and explore different ways of viewing them to build up a creative approach. The subject Services will help the students to get an overview of the utilities and their functions in Interior Design. They will also become familiar with using computers and AutoCAD right from the First Semester along with some basic computer applications.

Paper No.	SUBJECT – MAJOR MANDATORY	Total Theory Hours	Total Session of 3 hours	Studio Hours	Total Session of 2 hours each
BIDS1MJP1	DESIGN- I	45	15	30	15
	Objective : To introduce basic concepts and terminology used in design, give the overview of design aspects in terms of design elements and principles including anthropometry/ergonomics. To develop observational and creative skills that would enhance the visual perception of students and evolve aesthetic sensitivity. Learning Outcome : Apply the basic design knowledge gained and anthropometric observations in the designing of Residential interior spaces.				

<u>Unit - 1</u>		
 Basic Terminology – Plan, 		
Elevation, Section Etc.		
Developing observational skills		
(This will be monitored till Sem		
II in all lectures)		
Basic Design - Model Making –		
Cube, Pyramid Etc.		
> Understanding of volume and		
space		
\succ Using different 3d objects,		
studying their arrangements		
and its effect on space and		
volume.		
➤ Understanding flow of space		
around objects, aesthetical		
reasonings.		
 Geographical and astronomical 		
orientation and introduction to		
surroundings.		
Relation of Geography, natural		
phenomenon like and light and		
ventilation with architectural and		
Interior design.		
Understanding different Design		
styles, themes etc.		
International, Modern,		
Contemporary.		
<u>Unit - 2</u>		
Revisions and application of		
British and metric scales		
taught in technical drawing		
classes.		
 Understanding Furniture Units, 		
Their Functions.		
Anthropometric Data – Human		
behaviour and movements for		
residential applications.		
Ergonomics and It's		
Application in Interior Design.		
> Sketching basic furniture		
TI:4 2		
$\underbrace{\text{UIIII} - 5}_{\text{Management}}$		
➤ Understanding the fundamental of design		
Form Follows Expection		
FOILIN FOLLOWS FULCTION		
circulation (Dlan /Section		
(Flevetion)		

> Bedroom circulation items
and circulation (nlan/section/
alouation
Students will be tought how
Students will be taught now
for make and use cutouts of
layout arrangements and
select the correct one from the
options worked out.
Kitchen + Toilet Introduction
Fundamental Design
➢ Understanding Kitchen
Triangle. Studying various
types of kitchen layouts and
shapes. Selecting the right
type for required application
Studying own house plan
<u>Unit - 4</u>
▶ Introduction to 1 Bedroom
apartment design
➢ Designing of 1-bedroom
apartment.
≻ Layout plan - Studying
various arrangements and
understanding pros and cons
by using scaled furniture
cutout
> Sections/ Elevations
Sections and elevations in
detail
Converting technical plan/
elevation into realistic design
by adopting right style and
detailing
 Spot views and details
> Spot views and details
Reference Books
Time Saver Standards Design
Data - Chiava I & Callender I
Data Chiava. J. & Canonder. J. Interior Design - Kasu Ahmed
Sanskruti Sudhir Diwan
Architectural Dicture Dictionary
- Francis D K Ching
- Francis D. K. Ching

Paper No.	SUBJECT – MAJOR MANDATORY	Total Theory Hours	Total Session of 3 hours	Studio Hours	Total Session of 1 to 2 hours each
BIDS1MJP2	CONSTRUCTION I	15	5	30	15
	 Objective: To introduce basic materials used in construction, basic components of a building and method of construction and representation of the same. Learning Outcome: Understand basic materials used in construction, basic components of a building and method of construction and representation of the same. 				
	 Theory & Sketches Unit – 1 >Terminology – Introduction to various building components, common terms used in interior design. >Natural Materials– Study of soil, sand, gravels, pebbles, boulders, rocks, and their use in construction and application in interiors. Unit – 2 >Stone –Terms, Types, Stone Masonry, (Random Rubble & Ashlar Types), Masonry Tools, Stone dressing, Pointing, and use in interiors. 				
	 Unit - 3 ➢ Brick – Manufacturing Process, Types (Common bricks, Wire cut bricks, Fire clay bricks, Concrete blocks etc), Std Sizes, Closers & Bats, Various Bonds (Stretcher, Header, English & Flemish) & Partition walls, Steps & Guidelines for Brick Masonry Construction, Piers & Paving. ➢ Brick work features such as Corbelling, Toothing. 				

Stepping, Coping, Terracing,	
etc.	
<u>Unit - 4</u>	
► Bamboo & Cane Construction –	
\succ Understanding its character and	
use in interior.	
≻Terms, Characteristics, Types of	
Bamboo. Construction Basic	
Joineries.	
≻Individual Case Study.	
► Details of Roof, seating in	
bamboo & fixing of bamboo	
frame work to floor.	
Reference Books:	
> Building Construction Vol 1 &	
2 - W. B. Mackey	
\triangleright Construction and material	
handbook - P N Khanna	
Building Construction	
Handbook - R. Chudley and R.	
Greeno	
> Technology of Interior	
Construction by Vasudeo	
Channapattam - Part 1	
▷ Design Fundamental in	
Architecture by V.S Parmar	
> Interior Design Illustrated by	,
Francis DK Ching	

Paper No.	SUBJECT - OPEN ELECTIVES	Total Theory Hours	Total Session of 3 hours	Studio Hours	Total Session of 1 to 2 hours each
BIDS1P3A	DRAWING – I	15	5	30	15
	Objective : Introduction to graphics, drawings and representation techniques in form of technical drawings to enable student to visualize the design in effective manner. Learning Outcome : Application of representation techniques to draw two & three-dimensional objects, improve visualization skills.				

 Unit - 1 >Introduction to Technical Drawing >Define, Identify and Explain concepts/ provisions/ principles relating to Technical Drawing. > Eye, Hand, Brain Coordination. > Introduction of subject, nameplate & its construction/ format with Introduction to Arithmetic & Geometry. 		
 Unit - 2 >Measurement & scale – British/Metric (Units/system of measurements) with its application & Introduction to instruments with application. >Technical Lettering, Free hand exercise for hand assessment & hand writing improvement. >Lettering application: Different sizes scales, Upper case, lower case, bold etc. > > Understanding two-dimensional objects such as Square, hexagons, and Circle etc. >Define, Identify and Explain concepts/provisions/ principles relating to Technical Drawing. >Introduction of orthographic Projection - Primary / Simplified Objects (cubes, cuboids etc.) 		
 Unit - 4 > Developed Objects - Introduction to Surfaces /edges / corners. > Developed Objects - Prism / Pyramids with Square & Polygonal Base. > Advance Structure - Ref. Interior Layout - composing of multiple objects with different size/ dimensions Reference Books > Time Saver Standards, Design 		
Time Saver Standards- Design Data - Chiava. J. Callender J.		

Perspective & Sciography – Shankar M
Rendering With Pen & Ink - Robort W. Gill

Paper No.	SUBJECT - OPEN ELECTIVES	Total Theory Hours	Total Session of 2 hours	Studio Hours	Total Session of 1 to 2 hours each
BIDS1P3B	 SERVICES- THEORY AND APPLICATIONS Objective: To introduce the principles of MEP, sanitation and drainage system, HVAC, Firefighting to enable learner understand the concept and function of all services Learning Outcome: Understand and study principles of MEP, sanitation and drainage system, HVAC, Firefighting to enable learner understand the concept and function of all services. 	30	15		
	 Unit – 1 ➤ Introduction, Terminologies. ➤ Units Under Services, Concepts of Services, Introduction to term MEP (Ventilation, Plumbing – Water supply + drainage, Electrical & Lighting, HVAC, Firefighting etc.) ➤ Understanding concepts with case studies ➤ Importance of services in lifestyle and in architecture and interior design. Identifying services around us which may have gone unnoticed. 				
	 <u>Unit - 2</u> ➤ Ventilation – Importance in interiors ➤ Natural, Mechanical, Hybrid (Types- Single sided, Cross, stack ventilation and its effects) ➤ Lack of cross ventilation and its effects 				

	 Elements influencing indoor air pattern Techniques to achieve Natural ventilation (Stack effect, wind tower, courtyard effect, Evaporative cooling) Case study, Research Ventilation in different zones Ways and means to improve comfort 		
<u>1</u>	 Unit – 3 ➤ Mechanical ventilation- Introduction ➤ Types, ducts, fans etc. ➤ Types, uses, location, materials used etc. ➤ Case Study-Residential, Commercial, Industrial, Basement Parking etc. 		
<u>1</u>	 Unit – 4 ➢ Plumbing – Introduction, Norms and Terms. ➢ Terminology only - Pipes, appliances, stack, drain, sewage, manhole, chambers etc. ➢ Study of residential/ commercial places 		
	 Reference Books: National Building Code- Building bylaws Times Saver standards of Architectural Design Data by Callender, Tata McGaw Hill. Electrical & mechanical services in high rise buildings (Design & estimation manual- including Green buildings) – AK Mittal Building services (Electrical services) – Krunal Thanki Building services (Part 1) – Krunal Thanki 		

Paper No.	SUBJECT - OPEN ELECTIVES	Total Theory Hours	Total Session of 4 hours	Studio Hours	Total Session of 1 to 2 hours each
BIDS1P3C	ICT Objective: Introduction to fundamentals of computer systems, hardware, peripheral devices, operating systems, application software etc in interior practice, understanding and application of MS-Word, Power point, AutoCAD. Learning Outcome: Use computer aided design language.	60	15		
	 Unit - 1 > Understanding difference between hardware & software > Understanding various input and output devices & methods > Understanding basics of Windows > Understanding Basics in Microsoft Words > Using Word for documentation > Editing in word files > Understanding and creating Basic Presentation for projects in PPT Unit - 2 > Editing in presentation files > Understanding interface, input methods, > navigation in excel, adding formatting data > Formatting managing worksheet > Using tables & styles, inserting shapes/pictures creating & using formulas Understanding interface, Understanding i				

<u>Unit –</u>	<u>4</u>		
\succ	Using various object selection		
	methods, Dimensioning drawing		
	with using basic dimensioning tools		
\succ	Understanding advanced dimension		
	styles with applying various		
	properties to dimensioning objects		
	Editing existing dimensions		
\triangleright	Workshop/activity session		
Refere	ence Books:		
\rightarrow	Mastering AutoCAD (George		
	Omura Brian Benton)		
\triangleright	AutoCAD for engineers and		
	designers basics & intermediate		
	(Sham Tickoo)		

Paper No.	SUBJECT - OPEN ELECTIVES	Total Theory Hours	Total Session of 3 hours	Studio Hours	Total Session of 1 to 2 hours each
BIDS1P4A	GRAPHICS – I	15	5	30	15
	Objective : Introduction to graphics, drawings and representation techniques in form of technical drawings to enable student to visualize the design in effective manner. Learning Outcome : Application of representation techniques to draw two & three-dimensional objects, improve visualization skills.				
	<u>Unit - 1</u>				
	 Improving visualization skills, simple exercises, focus on noticing objects, details etc. Revision of Developed Objects - Introduction to Surfaces /edges / corners. Developed Objects - Prism / Pyramids with Square & Polygonal Base. Advance Structure - Ref. Interior Layout - composing of multiple objects with different size/ dimensions 				
	<u>Unit – 2</u> →Graphic exercise - Optical impression & awareness →Introduction to Section with various planes				
	 <u>Unit - 3</u> Developed Objects - Composite multiple objects with different size/ Dimensions. ≻Advance / Complicated objects - Circular - Cylinder & cone etc. 				
	Unit - 4 ➤Tracing work for Training Hand & Drafting. ➤Advance / Complicated objects – Practical application with live				

furniture in classroom.	
Reference Books	
Time Saver Standards- Design	
Data - Chiava. J. Callender J.	
Perspective & Sciography -	
Shankar M	
➢ Rendering With Pen & Ink -	
Robort W. Gill	

Paper No.	SUBJECT - OPEN ELECTIVES	Total Theory Hours	Total Session of 3 hours	Studio Hours	Total Session of 1 to 2 hours each
BIDS1P4B	 FREEHAND SKETCHING AND DRAWING Objective: Introduction to Freehand drawing and representation techniques in form of sketches, rendering, views to enable the student to visualize the design in effective manner. To learn colour theory through various mediums. Learning Outcome: Application of representation techniques to design and improve visualization skills. Understand colour theory and its applications. 	15	5	30	15
	 Unit - 1 ➤ Free hand skills – Understanding and improving. (For lines, curves etc). ➤ Line work improvement Understanding different line weights, values, meaning, uses, functions in interiors. ➤ Drafting tools – Understanding drafting tools, aligning paper, pencil pressure techniques (2B, 4B etc). ➤ Lettering improvement. Understanding and studying different fonts, styles and their uses, applications. ➤ Lettering for templates, heading, subheading with sizes. ➤ Understanding tracing techniques. ➤ Expressing words with the help of alphabet. 				

pencil rendering, awareness of light,		
shade and shadows.		
Square, hexagon, cuboid, hexagon,		
pentagon their different angles.		
➤ Freehand drawing techniques:		
Perspective drawing – Introduction		
to one point, object drawing, 3D		
shapes, pencil rendering in light and		
dark shades.		
> One point perspective with different		
furniture items, home appliances.		
 Different views, angles with simple 		
objects. Table, Chair etc.		
Perspective - Interiors and exterior		
(rendered in pencil).		
Unit – 3		
Colour Theory Colour Wheel _		
Primary, Secondary Tertiary		
schemes etc.		
> Different mediums of colouring –		
Poster colours, Water colours, Oil		
pastels etc.		
➢ With the help of colour wheel make		
2D		
Design, Make colour scale and grey		
scale		
> Understanding colour theory with		
relation to interiors.		
> Application of colour theory in		
Interiors		
halp of poster water and colour		
nencil		
penen.		
Unit – 4		
\rightarrow Basics of human figures.		
▶ Drawing human figures with		
proportions, hands, feet etc. (Its		
relation with objects, furniture etc.		
➢ Rendering with pencil human		
figures.		
Still life Drawing, Sketching still life		
➢ Still life rendering in		
Poster/Watercolour		
 Outdoor sketching – Urban Sketching 		
 Visit outdoor drawing and skatching 		
Same outdoor do it on a various		
angles.		
ungress		

\blacktriangleright Rendering with Pen and Ink - W.		
Robert Gill		
Water Colour Sketching - Milind Mulik		
 Art – Noveau - Constantino Maria Magazines, and periodicals 		

Paper No.	SUBJECT - VOCATIONAL SKILL COURSE	Total Theory Hours	Total Session of 2 hours	Studio Hours	Total Session of 2 hours each
BIDS1P5	SERVICES- I Objective: To introduce the principles of MEP, sanitation and drainage system, HVAC, Firefighting to enable learner understand the concept and function of all services Learning Outcome: Understand and study principles of MEP, sanitation and drainage system, HVAC, Firefighting to enable learner understand the concept and	30	15		
	function of all services. $\underline{\text{Unit} - 1}$				
	 Introduction, Terminologies. Units Under Services, Concepts of Services, Introduction to term MEP (Ventilation, Plumbing – Water supply + drainage, Electrical & Lighting, HVAC, Firefighting etc.) Understanding concepts with case studies Importance of services in lifestyle and in architecture and interior design. Identifying services around us which may have gone unnoticed. 				
	 <u>Unit - 2</u> ➢ Ventilation – Importance in interiors ➢ Natural, Mechanical, Hybrid (Types- Single sided, Cross, stack ventilation and its effects) ➢ Lack of cross ventilation and its 			-	-
	 Elements influencing indoor air pattern Techniques to achieve Natural ventilation (Stack effect, wind tower, courtyard effect, Evaporative cooling) Case study, Research 				
 Unit – 4 Plumbing – Introduction, Norms and Terms. Terminology only - Pipes, appliances, stack, drain, sewage, manhole, chambers etc. Study of residential/ commercial places Reference Books: National Building Code- Building bylaws Times Saver standards of Architectural Design Data by Callender, Tata McGaw Hill. Electrical & mechanical services in high rise buildings (Design & estimation manual- including Green buildings) – AK Mittal Building services (Electrical services) – Krunal Thanki Building services (Part 1) – Krunal Thanki 	 Ventilation in different zones Ways and means to improve comfort Unit - 3 Mechanical ventilation-Introduction Types, ducts, fans etc. Types, uses, location, materials used etc. Case Study-Residential, Commercial, Industrial, Basement Parking etc. 		-	-	
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	 Unit – 4 Plumbing – Introduction, Norms and Terms. Terminology only - Pipes, appliances, stack, drain, sewage, manhole, chambers etc. Study of residential/ commercial places Mational Building Code- Building bylaws Times Saver standards of Architectural Design Data by Callender, Tata McGaw Hill. Electrical & mechanical services in high rise buildings (Design & estimation manual- including Green buildings) – AK Mittal Building services (Electrical services) – Krunal Thanki 				

Paper No.	SUBJECT - SKILL ENHANCEMENT COURSE	Total Theory Hours	Total Session of 3 hours	Studio Hours	Total Session of 1 to 2 hours each
BIDS1P6	APPLIED TECHNOLOGY- I Objective: To introduce basic materials used in construction, basic components of a building and method of construction and representation of the same. Learning Outcome: Understand basic	15	5	30	15
	components of a building and method of construction and representation of the same.				
	 Unit - 1 ➤Terminology – Introduction to various building components, common terms used in interior design. ➤Natural Materials– Study of soil, sand, gravels, pebbles, boulders, rocks, and their use in construction and application in interiors. 				
	<u>Unit – 2</u> Stone –Terms, Types, Stone Masonry, (Random Rubble & Ashlar Types), Masonry Tools, Stone dressing, Pointing, and use in interiors.				
	 Unit - 3 >Brick – Manufacturing Process, Types (Common bricks, Wire cut bricks, Fire clay bricks, Concrete blocks etc), Std Sizes, Closers & Bats, Various Bonds (Stretcher, Header, English & Flemish) & Partition walls, Steps & Guidelines for Brick Masonry Construction, Piers & Paving. > Brick work features such as Corbelling, Toothing, Stepping, Coping, Terracing, etc. 				
	 <u>Unit - 4</u> ➤ Bamboo & Cane Construction – ➤ Understanding its character and use in interior. 				

	≻Terms, Characteristics, Types of
	Bamboo, Construction Basic
	Joineries,
	≻Individual Case Study.
	≻Details of Roof, seating in bamboo &
	fixing of bamboo frame work to
	floor.
R	eference Books:
	▶ Building Construction Vol. 1 & 2 -
	W. B. Mackey
	Construction and material handbook
	- P. N. Khanna
	Building Construction Handbook - R.
	Chudley and R. Greeno
	 Technology of Interior Construction
	by Vasudeo Channapattam - Part 1
	 Design Fundamental in Architecture
	by V.S Parmar
	 Interior Design Illustrated by Francis
	DK Ching

Paper No.	SUBJECT - ABLITY ENHANCEMENT COURSE	Total Theory Hours	Total Session of 3 hours	Studio Hours	Total Session of 1 to 2 hours each
BIDS1P7	PRESENTATION AND	15	5	30	15
	COMMUNICATION SKILLS-THEORY				
	OF MATERIALS- I				
	Objective : To give an overview of the basic materials used in Interiors with reference to the material properties, feasibility, availability, durability and sustenance to climatic conditions along with presentation of the same.				
	Learning Outcome: Understand and apply				
	basic materials used in Interiors with				
	feasibility, availability, durability and				
	sustenance to climatic conditions along with presentation of the same.				

 Unit -1 ➢ Introduction to Design elements and principles, basic art elements, optical illusions ➢ Introduction of design as a visual language. ➢ Introduction to building elements and spaces, structuring spaces ➢ Introduction to 5 senses and sensory based design + colour psychology + interaction of humans and surrounding spaces. 		
 Unit - 2 ➤ Units and conversion Measurements of past, SI system, British, Metric absolute system ➤ Introduction to all Fundamental quantities in SI system ➤ Learning British scale inches ➤ Unit Conversions for length, area and volume. ➤ Tools for measurement, Paper sizes ➤ Understandings drawing scales on paper 		
 Unit – 3 ➤ Nature, Geography, Seasons ➤ Manmade and natural environment, Climatic factors to be considered ➤ Understanding earth, sun, seasons, nature, Maps, Sun path. ➤ Orientation- Climate responsive designs. Directions based building orientation. ➤ Window openings- Sun- Natural light, solar heat gain, shading devices 		
 <u>Unit - 4</u> ➤ Introduction of stones- Quarrying methods, Natural Bed, Stone Dressing, seasoning, finishes on stone ➤ Uses of stones- flooring, construction, methods of cladding, Properties of good stone as a building material, deterioration of stones, 		

	Preservation of stones, sizes of stone slabs available, brands, Finishes of stones. Comparative analysis of types of stones under parent rock, its uses, properties, availability in India Artificial stones		
Refer > > > >	ence Books: Building Construction Vol. 1 & 2 - W. B. Mackey, Barry, Roy Chudley Architecture form, space and order, Picture Dictionary- Francis D.K. Ching Construction and material handbook : P. N. Khanna Neuferts Architects data		

Paper No.	SUBJECT - INDIAN KNOWLEDGE SYSTEM	Total Theory Hours	Total Session of 3 hours	Studio Hours	Total Session of 1 to 2 hours each
BIDS1P8	HISTORY OF DESIGN- INDIAN FURNI TURE/MATERIALS	15	5	30	15
	Objective : To give an overview and study History of materials and traditional furniture in India to assist design process. Learning Outcome : Understand importance of materials, furniture history and develop design processes based on historical components.				
	 Unit-1 ➢ History of materials- Traditional materials and evolution of materials. ➢ Introduction to building components and materials applicable which we interact with on daily basis (List of basic materials and information) Eg: Type of Flooring-Joint less/ seamless- Cement screed, granolithic, resin based-epoxy, PU, mastic asphalt, Flexible thin sheet and tiles- Linoleum, vinyl, rubber sheet. Rigid tiles and stone slabs- ceramic, vitrified, porcelain, glass tile etc. 				
	 Unit - 2 ➤ Regional revolution- India ➤ India and Traditional Indian folk and tribal arts and handicrafts, such as madhubani, Kalamkari, warli, etc. ➤ Study of inlay and meenakari in relation to interior. ➤ Traditional designs and motifs used on surface and objects including pottery, stone, metal ware, wood crafts etc. 				

T			
<u> </u>	<u>Unit – 3</u>		
	Understanding different Design		
	styles, themes etc. Indian – (east,		
	west, north, south)		
	Regional houses around the globe		
	 Climatic zones of India. 		
	\succ Variation in traditional housing		
	based on different regions		
	➢ Climate based vernacular		
	architecture of India. Traditional		
	materials		
τ	Unit – 4		
-	\blacktriangleright Theory of materials- Natural and		
	man made		
	 Introduction classification of rocks: 		
	Stones history		
	Stones, mstory.		
ŀ	Reference Books:		
	➤ Building Construction Vol. 1 & 2 -		
	W. B. Mackey, Barry, Rov Chudley		
	> Architecture form, space and order,		
	Picture Dictionary- Francis D.K.		
	Ching		
	Construction and material handbook		
	: P. N. Khanna		
	 Neuferts Architects data 		
		I	I I

Paper No.	SUBJECT - VALUE EDUCATION COURSE	Total Theory Hours	Total Session of 2 hours	Studio Hours	Total Session of 2 hours each
BIDS1P9	ENVIRONMENT STUDY	30	15		
	Objective: To create awareness about physical environment, ecosystems and their components. To gain knowledge of natural resources and develop the concept of ecology and its components. Learning Outcome: Recognize natural resources and their types, understand physical environment and its components, the impact of human activities on ecology and need to conserve the resources.				

Uni	<u>it -1</u>	
	\succ Introduction to the subject,	
	importance	
	➢ Renewable and non-renewable	
	resourses	
	 Natural resources, types 	
	➢ Forest, water, food, land resources-	
	problems, exploitataion,	
	preservation	
Lini	it _ 2	
<u></u>	\sim Conservation of natural resources	
	 Organizations involved 	
Uni	<u>it – 3</u>	
	 Ecosystems, types of ecosystems 	
	 Function, structure 	
	 Producers, consumers, decomposers 	
	 Food chains, ecological pyramid 	
TIN	:4 4	
	$\mathbf{n} - 4$ B iodiversity terminology	
	importance	
	 India as a mega-diversity nation 	
	 Threats to bio-diversity 	
	 Endangered species 	
	 Conservation of bio-diversity 	
Ref	ference Books:	
	➤ The Biodiversity of India by	
	Bharucha Erach	
	Environmental Biology by Agarwal	

Paper No.	SUBJECT - CO-CURRICULAR COURSE	Total Theory Hours	Total Session of 3 hours	Studio Hours	Total Session of 1 to 2 hours each
BIDS1P10	EVENT MANAGEMENT- POSTER MAKING, STALL DESIGN, FREE HAND SKETCHING AND RENDERING Objective: Introduction to Freehand drawing and representation techniques in form of sketches, rendering, views to enable the student to visualize the design in effective manner. To learn colour theory through various mediums. Learning Outcome: Application of representation techniques to design and improve visualization skills. Understand colour theory and its applications	15	5	30	15
	 Unit - 1 ➤ Free hand skills – Understanding and improving. (For lines, curves etc). ➤ Line work improvement Understanding different line weights, values, meaning, uses, functions in interiors. ➤ Drafting tools – Understanding drafting tools, aligning paper, pencil pressure techniques (2B, 4B etc). ➤ Lettering improvement. Understanding and studying different fonts, styles and their uses, applications. ➤ Lettering for templates, heading, sub-heading with sizes. ➤ Understanding tracing techniques. ➤ Expressing words with the help of alphabet. 				
	 Unit - 2 ➤ Understanding basic shapes, 2D, 3D (square, hexagon, circle etc) with pencil rendering, awareness of light, shade and shadows. ➤ Square, hexagon, cuboid, hexagon, pentagon their different angles. ➤ Freehand drawing techniques: Perspective drawing - Introduction to one point, object drawing. 3D 				

shapes, pencil rendering in light and	
dark shades.	
One point perspective with different	
furniture items, home appliances.	
Different views, angles with simple	
objects. Table, Chair etc.	
Perspective - Interiors and exterior	
(rendered in pencil).	
$\underline{\text{Unit}} - 3$	
► Colour Theory: Colour Wheel –	
Primary, Secondary, Tertiary	
schemes etc.	
Different mediums of colouring –	
Poster colours, Water colours, Oil	
pastels etc.	
➤ With the help of colour wheel make	
ZD Design Meller 1	
Design, Make colour scale and grey	
scale	
Understanding colour theory with	
Application of colour theory in	
Application of colour theory in	
Make interior layout colour with the	
help of poster water and colour	
nencil	
penem	
Unit – 4	
\rightarrow Basics of human figures.	
 Drawing human figures with 	
proportions, hands, feet etc. (Its	
relation with objects, furniture etc.	
▶ Rendering with pencil human	
figures.	
➢ Still life Drawing, Sketching still	
life	
➢ Still life rendering in	
Poster/Watercolour	
> Outdoor sketching – Urban	
Sketching	
Visit outdoor drawing and sketching	
\succ Same outdoor do it on a various	
angles.	
Reference Books:	
\succ Rendering with Pen and Ink - W.	
Robert Gill	
➢ Water Colour Sketching - Milind	
Mulik	
Art – Noveau - Constantino Maria	
Magazines, and periodicals	

Sem.-II

SEMESTER II

In the <u>Second Semester</u> more emphasis is placed on functional and contextual considerations through projects concerned with residential premises, building put to new use with additional project options concerned with public services design. The visual research studies continue through the Second Semester, exploring the sensory understanding of interior space as a component of the built environment, which may be both sensitive and experimental in application. The studios are the base for the student's academic activities and in addition, teach design related to formal and cultural values.

Paper No.	SUBJECT – MAJOR MANDATORY	Total Theory Hours	Total Session of 3 hours	Studio Hours	Total Session of 2 hours each
BIDS2MJP 11	DESIGN - II	45	15	30	15
	 Unit – 1 ➤ Converting 1 BHK apartment to 2BHK apartment ➤ Choosing right position for the additional room or the repositioned room from circulation point of view. ➤ Understating services and structural issues for such conversions. ➤ How services play important role in such conversions/modifications ➤ Re-routing services to suit the revised layout. 				
	 <u>Unit - 2</u> Introduction to bigger residential units Design of 2/3 bedroom flats, bungalows, duplex, triplex, condominium houses Layout plan - Studying various arrangements and understanding pros and cons by using scaled furniture cutout Sections/ Elevations Sections and elevations in detail. 				

 Converting technical plan/ elevation into realistic design by adopting right style and detailing. <u>Unit - 3</u> Preparing and developing various layouts Flooring, Electrical layout – Understanding the function, symbols, legends etc. 		
<u>Unit - 4</u>		
 Mood board: developing ambiance for the selected design style and selecting right colour palette. Selection of material/ textures and colours for various applications Total project presentation with drawings, sketches, mood boards and sample boards, views. Final marking. Conversion of existing flats for maximum efficiency of available space. 		
<u>Reference Books:</u>		
 Time Saver Standards Design Data -Chiava. J. & Callender. J. Interior Design - Kasu Ahmed Sanskruti - Sudhir Diwan Architectural Picture Dictionary - Francis D. K. Ching 		

Paper No.	SUBJECT – MAJOR MANDATORY	Total Theory Hours	Total Session of 3 hours	Studio Hours	Total Session of 1 to 2 hours each
BIDS2MJP 12	CONSTRUCTION- II	15	5	30	15
	 Theory & Sketches Unit - 1 Structural Systems overview, Load bearing structure in depth, terms, characteristics. Load distribution, parts of a typical load bearing building including, pitched roofs, brackets, awning, arched openings. Wall thicknesses in a load bearing structure. RCC framed structure introduction & basics only (Terms, load distribution characteristics). Typical plan section elevation of a load bearing structure explaining lintel, sill and all other important components. Brief introduction to RCC for comparison. Introduction to terminologies and concepts: canopy, porch, portico, chajja, verandah, balcony, deck, gallery, corridor, vestibule etc. 				
	 Unit - 2 Stone Arches- (Introduction, elements of arches, norms & terms, types, concept of load distribution, construction method), Corbelling, Stepping, Toothing, Copings, etc. Most common and popular type of Arches in Stone masonry in different type of dressing techniques. Brick Arches- Introduction, elements of arches, norms and terms, types, construction method. Researching through Books & observe the interior & architectural use of arches. Site visit to South Mumbai Other facial elements as Niche, 				

String Band, Cornice, Plinth Profiles, and overall application of all above in interiors.		
 Unit - 3 >Mud House Construction – >Introduction, understanding its character and use in Interior. >Cob wall construction >Plan Section Elevation of a Mud House Individual Case Study. 		
 Unit – 4 ➢ Introduction of Timber, timber types and their application (briefly). ➢ Timber frame structure ➢ Typical characteristics of a timber structure (Roof, brackets, railings etc), flooring basics, timber posts. 		
Pafaranca Books		
 Reference Books: Building Construction Vol. 1, 2, &3 - W. B. Mackey Construction and material handbook P. N. Khanna Building Construction Handbook - R. Chudley and R. Greeno Technology of Interior Construction by Vasudeo Channapattam - Part 1 Design Fundamental in Architecture by V.S Parmar Interior Design Illustrated by Francis DK Ching 		
	 String Band, Cornice, Plinth Profiles, and overall application of all above in interiors. Unit - 3 Mud House Construction – Introduction, understanding its character and use in Interior. Cob wall construction Plan Section Elevation of a Mud House Individual Case Study. Unit - 4 Introduction of Timber, timber types and their application (briefly). Timber frame structure Typical characteristics of a timber structure (Roof, brackets, railings etc), flooring basics, timber posts. Reference Books: Building Construction Vol. 1, 2, &3 - W. B. Mackey Construction and material handbook P. N. Khanna Building Construction Handbook - R. Chudley and R. Greeno Technology of Interior Construction by Vasudeo Channapattam - Part 1 Design Fundamental in Architecture by V.S Parmar Interior Design Illustrated by Francis DK Ching 	 String Band, Cornice, Plinth Profiles, and overall application of all above in interiors. Unit - 3 >Mud House Construction – >Introduction, understanding its character and use in Interior. >Cob wall construction >Plan Section Elevation of a Mud House Individual Case Study. Unit - 4 >Introduction of Timber, timber types and their application (briefly). >Timber frame structure >Typical characteristics of a timber structure (Roof, brackets, railings etc), flooring basics, timber posts. Reference Books: P Building Construction Vol. 1, 2, &3 - W. B. Mackey > Construction and material handbook P. N. Khanna > Building Construction Handbook - R. Chudley and R. Greeno > Technology of Interior Construction by Vasudeo Channapattam - Part 1 > Design Fundamental in Architecture by V.S Parmar > Interior Design Illustrated by Francis DK Ching

Paper No.	SUBJECT - MINOR	Total Theory Hours	Total Session of 3 hours	Studio Hours	Total Session of 1to 2 hours each
BIDS2MRP 13	THEORY OF MATERIALS II	15	5	30	15
	Theory & Sketches				
	<u>Unit – 1</u>				
	➤ Theory of material- natural and				
	man - made contd.				
	➤ Timber- Introduction of Timber				
	as a natural product, Timber				
	yielding Indian tress, Uses of				
	Types of timbers (softwood				
	P Types of timbers (softwood, hardwood) and its characteristics.				
	(knots Slope of grain density				
	etc.)				
	 Conversion of timber, 				
	sawing techniques,				
	Seasoning methods;				
	\succ Defects of timber natural and				
	seasoning, strengthening of				
	timber, preservatives application,				
	Engineered wood products				
	Glulam Plywood engineered				
	wood, chip boards, fibre board.				
	Laminated veneer lumber,				
	block board, laminates, veneers				
	etc. Artificial Timber				
	Plywood- Types, grading, uses-				
	finishes.				
	Introduction to Wood and Wood				
	based- Hardwood, softwood-				
	block flooring				
	block hooring				
	Unit – 2				
	➤ Study of various natural & man -				
	made materials – Wall material &				
	Finishes				
	> Introduction of Brick as a				
	material				
	➤ Cement- contents, types,				
	categories, uses, advantages,				
	 Introduction to Sand as an 				
	aggregate material				
	 Mortar- understanding mortar 				
	and its necessity, uses, properties				

 -		
of good mortar, Process of		
application, preparation		
properties, types - Cement	t	
mortar, lime mortar, surkh		
mortar, gauged mortar, muc		
mortar.		
 Concrete- concrete contents, uses 		
and types Grade of concrete		
preparation of concrete mix	,	
compaction ouring of concrete		
Understanding formwork		
Chuttoring coeffelding	,	
Shuttering, scallolding.		
F Introduction to concrete Blocks-		
sizes and uses, Dry wall		
Partitions, screens, dividers etc.		
Plaster- contents, Use, method		
and process of application,	,	
surface preparation, lathing	,	
understanding coats of plaster		
based on use and finish		
Types of plaster- Gypsum plaster	,	
Portland cement plaster/ stucco		
plaster, waterproof plaster, lime		
plaster, composite plaster	,	
acoustic plaster, keene's cement		
plaster		
Wall finishes- Understanding		
paints & types of paints with		
application, charcoal sheet, tile		
cladding, wood panelling, plaster		
finishes, laminates, skirting, dado	,	
<u>Unit – 3</u>		
Glass- manufacturing process	,	
defects, uses, Application.		
Types of glass- patterned glass.	,	
wire glass, heat absorbing/ tinted		
glass, reflective coated glass,		
tempered glass, toughened glass		
etc.		
Different uses of glass, tools for		
cutting, hardware used for fixing,	,	
methods of fixing, thicknesses		
etc.		
Introduction to glazing system		
(SGU, DGU) -energy	,	
performance of window system.		
Advantages and disadvantages		
> Clay and Clay products	.	
Classification of clay based or		
products- Brick clay, China clay,		
Fire clay. Bentonite		

	Clay -advantages, disadvantages,		
	sizes, application- Terracotta,		
	stoneware, Vitreous China,		
	Porcelain		
	Plastic-Properties resistance		
	durability of plastic as a material		
	Application in buildings.		
	Types of plastic- polymers, pvc,		
	polyurethanes, polystyrene etc.		
\succ	Products based on plastic types-		
	Wall tiles, Coatings, Adhering		
	films, flooring, vinyl carpet,		
	products for ceiling. Use in		
	sanitary fixtures nines		
4	Introduction to ceiling		
	Type of Coiling Adventages of		
	Type of Cennig-Advantages of		
	raise ceiling, material used for		
	ceiling- gypsum ceiling, pop,		
	levelling and re plastering of		
	ceiling.		
\succ	Conventional, suspended,		
	coffered, tray, coved, beam,		
	exposed ceiling,		
\succ	Mouldings, method of		
	installation of ceiling		
\triangleleft	Brands and tentative rates		
	Drands and tentative rates		
T Init	4		
<u>Unit –</u>	$\frac{4}{1}$		
<u>Unit –</u> ≻	<u>4</u> History of architecture period		
<u>Unit –</u>	<u>4</u> History of architecture period furniture (Indian/Foreign)		
<u>Unit –</u> >	<u>4</u> History of architecture period furniture (Indian/Foreign) Transition of design, materials,		
Unit – >	<u>4</u> History of architecture period furniture (Indian/Foreign) Transition of design, materials, design revolution from ancient		
<u>Unit -</u> > >	<u>4</u> History of architecture period furniture (Indian/Foreign) Transition of design, materials, design revolution from ancient time till modern times, reference		
<u>Unit -</u> > >	<u>4</u> History of architecture period furniture (Indian/Foreign) Transition of design, materials, design revolution from ancient time till modern times, reference images, styles, design elements		
<u>Unit -</u> >	<u>4</u> History of architecture period furniture (Indian/Foreign) Transition of design, materials, design revolution from ancient time till modern times, reference images, styles, design elements motifs etc.,		
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Unit>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	4 History of architecture period furniture (Indian/Foreign) Transition of design, materials, design revolution from ancient time till modern times, reference images, styles, design elements motifs etc., Egypt, (Greek empire, roman empire, dark ages,)		
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\triangleright	Building Construction Illustrated		
	second edition Francis D. K.		
	Ching		
\checkmark	A Global History of Architecture.		
	2nd edition - Ching, Francis, Mark		
\checkmark	Time-Saver Standards for Interior		
	Design and Space Planning,		
	Second by DeChiara		
\checkmark	Interior Design by		
	Ahmed Kasu		
\checkmark	History of Architecture by Serem		
	Andrew		
\checkmark	A history of Interior Design		
	second edition by John Wiley and		
	Sons 2005		

Paper No.	SUBJECT - OPEN ELECTIVES	Total Theory Hours	Total Session of 3 hours	Studio Hours	Total Session of 1 to 2 hours each
BIDS2P 14A	DRAWING - II	15	5	30	15
	 Unit - 1 ➢ Study of complex solid objects through Orthographic Projection System ➢ Introduction to isometric View, Explain from Notes & References. 				
	 Unit - 2 ➢ Perspective Drawing: One Point Perspective as technical way. ➢ Introduction to 1 Pt Perspective View: Primary / Simple Objects. 				
	 Unit - 3 ➢ One Pt Perspective View: Interior Layout Residential plan etc. ➢ One Pt Perspective View: Complicated Layout Plans with Raised Levels etc. ➢ One Pt Perspective View: Interior Layout Residential plan (advance) 				
	<u>Unit -4.</u> ≻ Rendering technics – furniture, finishes				

 Application of rendering techniques Rendering techniques in various mediums 	S
Reference Books:➤ Perspective and Sciography Shankar Mulik➤ Rendering with Pen and Ink - W Robert Gill	- 7.

Paper No.	SUBJECT - OPEN ELECTIVES	Total Theory Hours	Total Session of 2 hours	Studio Hours	Total Session of 1 to 2 hours each
BIDS2P 14B	SERVICES(THEORY AND APPLICATIONS)	30	15		
	 Basics of water supply. Source, collection, purification, distribution. storage. Various types water supply systems within residential and commercial premises of different sizes, highrise buildings, towns and cities. Basics of drainage. Types of drainage systems. Traps, Branches of drainage system. Drainage in building blocks, high-rise buildings, complexes, towns and cities. Types of drainage discharge. Septic tanks and sewer lines. 				
	 <u>Unit - 2</u> Water supply in dwellings - individual toilets, kitchen and other locations. Drainage in dwellings - toilets, kitchen and other locations. Water supply piping layout in toilets and kitchen Drainage piping layout in toilets and kitchen. Effect of water supply and drainage on toilet and kitchen design and layout and tiling layout in particular. 				
	<u>Unit - 3</u>				

\triangleright	Water supply Hardware: types of		
	nipes.		
	Different materials: advantages and		
	disadvantages		
\triangleright	Different sizes of pipes and their		
	applications		
\triangleright	Understanding pipes routing and		
	it's accessories: couplings, elbows		
	(L), T junctions, Y junction's		
	terminators and it's testing etc.		
\triangleright	Drainage hardware: types of pipes,		
\triangleright	Different materials: advantages and		
	disadvantages		
\succ	Different sizes of pipes and their		
	applications		
\triangleright	Understanding drainage pipe		
	routing and its accessories:		
	couplings, elbows (L), T		
	junctions, Y junctions terminators		
	and it's testing etc.		
<u>Unit -</u>	<u>4</u>		
	Application of unit 3 and 4 in design		
	project. Effect on tiling layout and		
~	overall design.		
	Additional civil work requirements		
	to suit site conditions and design		
	Final procentation and marking		
	r mai presentation and marking		
Refer	ence Books:		
>	National Building Code- Building		
	bylaws		
\triangleright	Times Saver standards of		
	Architectural Design Data by		
	Callender, Tata McGaw		
\succ	Electrical & mechanical services in		
	high rise buildings (Design &		
	estimation manual- including Green		
	buildings) – AK Mittal		
\succ	Building services (Electrical services)		
	– Krunal Thanki		
\triangleright	Building services (Part 1) – Krunal		
	Thanki		

Paper No.	SUBJECT - OPEN ELECTIVES	Total Theory Hours	Total Session of 4 hours	Studio Hours	Total Session of 1 to 2 hours each
BIDS2P 14C	ICT - II	60	15		
	 Unit – 1 ➢ Organising projects drawings with using Layers; advance editing tools. ➢ Drawing advance 2D shapes for designs elevation ➢ Changing and matching the properties of existing objects, ➢ Modifying shapes with advance ➢ Modification tools ➢ Creating blocks & wblocks & inserting blocks/wblock 				
	 <u>Unit - 2</u> ➢ Editing blocks, wblocks, using enquiry for finding out information about objects. ➢ Creating & using design centre ➢ Creating, using and editing multiple lines with advance tools ➢ Printing 2D drawing 				
	 <u>Unit - 3</u> ➢ Using editing tools. ➢ Using express tools to create shapes ➢ Editing objects with express tools 				
	 <u>Unit - 4</u> ➤ Creating and using readymade title blocks for organised time saving permanent setting. > Using utility tools > Revision of tools/ problem solving session 				
	 ▶ Mastering AutoCAD (George Omura) ▶ AutoCAD for engineers and designers basics & intermediate (Sham Tickoo) 				

Paper No.	SUBJECT - OPEN ELECTIVES	Total Theory Hours	Total Session of 3hours	Studio Hours	Total Session of 1 to 2 hours each
BIDS2P15A	GRAPHICS - II	15	5	30	15
	 Unit - 1 ➢ Isometric Projection. ➢ Ex. On primary Objects: Solid Objects - square, rectangles etc. ➢ Ex. On Advance Object: circular type (Cylinder & Cone) 				
	 Unit - 2 ➤ 1 Pt Perspective View: Advance / complicated Objects & Solid Objects- square, rectangles etc. ➤ 1 Pt Perspective View: Application into a Furniture / fixture designed. 				
	 Unit -3 ➤ A Test: Developed Objects with Interior Layout . ➤ Developed Objects - Ref. Interior Layout. 				
	 Unit -4 ➢ One Pt Perspective View: Interior Layout commercial office plan etc. ➢ One Pt Perspective View: Interior Layout Commercial plan advance etc. 				
	 Reference Books: ➢ Perspective and Sciography - Shankar Mulik ➢ Rendering with Pen and Ink - W. Robert Gill 				

		Tatal	Total		Total
Danan Ma	SUDIECT ODEN ELECTIVES	Theorem	Session	Studio	Session of 1
Paper No.	SUDJECT - UPEN ELECTIVES	Lours	of 3	Hours	to 2 hours
		nours	hours		each
BIDS2P15B	FREEHAND SKETCHING AND	15	5	30	15
	DRAWING				
	<u>Unit – 1</u>				
	➢ Freehand techniques − making cubes,				
	pyramid with paper, card board,				
	arranging them as 3D structure				
	Draw that 3D structure in one point				
	perspective.				
	➢ With the help perspective of 3D				
	structure draw 5 different angles.				
	Render with Colour same perspective.				
	> 3D structure rendering with Poster,				
	water colour etc.				
	Advanced pencil rendering				
	<u>Unit – 2</u>				
	Study of human anatomy				
	Perspective view of the human figures.				
	➤ Colour wheel and colour scheme –				
	analogous and complementary				
	\succ Colour schemes contd. Triads,				
	understanding hue, tint, tone, shade.				
	Make some commercial Design out of				
	these colours. (Activity)				
	<u>Unit - 3</u>				
	Freehand drawing techniques:				
	Two and Three Perspective drawing.				
	Perspective drawing – Introduction to				
	two point, object drawing, 3D shapes,				
	pencil rendering in light and dark				
	shades.				
	Bird's eye view and ant views.				
	> I wo point perspective with different				
	Turniture items, nome appliances.				
	Perspective - Interiors and exterior (nondered in page)				
	(rendered in pencil).				
	 Natural and technical way of drawing 				
	numan figures with proportion, front				
	view, 2 point perspective with pencil				
	rendering.				

 Freehand perspective – one point, two point perspective interior/exterior with reference to layouts with rendering, colouring (water colours, poster colours) 		
 Unit – 4 ➤ Outdoor sketching – Nature, Cityscapes ➤ Creative application of design principles – Making 2D, 3D Mural, sculpture design, with texture ➤ Final Mural or sculpture output. 		
Reference Books:		
Rendering with Pen and Ink - W. Robert Gill		
 Water Colour Sketching - Milind Mulik 		

Paper No.	SUBJECT - VOCATIONAL SKILL COURSE	Total Theory Hours	Total Session of 2 hours	Studio Hours	Total Session of 2 hours each
BIDS2P16	SERVICES - II	30	15		
	 Unit - 1 ➢ Basics of water supply. Source, collection, purification, distribution. storage. Various types water supply systems within residential and commercial premises of different sizes, high-rise buildings, towns and cities. ➢ Basics of drainage. Types of drainage systems. Traps, Branches of drainage system. Drainage in building blocks, high-rise buildings, complexes, towns and cities. Types of 				

drainage discharge Sentic tanks			
and sower lines			
and sewer miles.			
Unit - 2			
Water supply in dwellings			
water suppry in dwennings -			
individual toilets, kitchen and			
other locations.			
Drainage in dwellings - toilets,			
kitchen and other locations.			
> Water supply piping layout in			
toilets and kitchen			
 Drainage nining layout in toilets 			
and kitchen			
Effect of water supply and			
drainage on toilet and kitchen			
design and layout and tiling			
layout in particular.			
Unit - 3			
Water supply Hardware: types of			
pines			
Different meterials: adventages			
Different materials. auvantages			
and disadvantages			
Different sizes of pipes and their			
applications			
Understanding pipes routing and			
it's accessories: couplings,			
elbows (L). T junctions, Y			
junction's terminators and it's			
testing etc			
\sim Drainage bardwara, types of			
pipes,			
Different materials: advantages			
and disadvantages			
Different sizes of pipes and their			
applications			
Understanding drainage pipe			
routing and its accessories:			
couplings elbows (L) T			
iunctions Viunctions terminators			
junctions, 1 junctions terminators			
and it's testing etc.			
<u>Unit - 4</u>			
\succ Application of unit 3and 4 in			
design project. Effect on tiling			
layout and overall design.			
Additional civil work			
requirements to suit site			
conditions and design			
requiremente			
Final presentation and marking			
Final presentation and marking			

Refer	ence Books:		
	National Building Code-		
	Building bylaws		
	Times Saver standards of		
	Architectural Design Data by		
	Callender, Tata McGaw		
	Electrical & mechanical services in		
	high rise buildings (Design &		
	estimation manual- including Green		
	buildings) – AK Mittal		
	Building services (Electrical		
	services) – Krunal Thanki		
	Building services (Part 1) – Krunal		
	Thanki		

Paper No.	SUBJECT - SKILL ENHANCEMENT COURSE	Total Theory Hours	Total Session of 3 hours	Studio Hours	Total Session of 1 to 2 hours each
BIDS2P17	APPLIED TECHNOLOGY - II	15	5	30	15
	 Unit - 1 > Structural Systems overview, Load bearing structure in depth, terms, characteristics. >Load distribution, parts of a typical load bearing building including, pitched roofs, brackets, awning, arched openings. Wall thicknesses in a load bearing structure. > RCC framed structure introduction & basics only (Terms, load distribution characteristics). > Typical plan section elevation of a load bearing structure explaining lintel, sill and all other important components. > Brief introduction to RCC for comparison. > Introduction to terminologies and concepts: canopy, porch, portico, chajja, verandah, balcony, deck, gallery, corridor, vestibule etc. 				
	 Stone Arches- (Introduction, elements of arches, norms & terms, types, concept of load distribution, construction method), Corbelling, Stepping, Toothing, Copings, etc. Most common and popular type of Arches in Stone masonry in different type of dressing techniques. Brick Arches- Introduction, elements of arches, norms and terms, types, construction method. Researching through Books & observe the interior & architectural use of arches. Site visit to South Mumbai Other facial elements as Niche, String Band, Cornice, Plinth 				

Profiles, and overall application of all above in interiors.		
<u>Unit - 3</u> >Mud House Construction – >Introduction, understanding its character and use in Interior. >Cob wall construction >Plan Section Elevation of a Mud House >Individual Case Study.		
<u>Unit – 4</u>		
 Introduction of Timber, timber types and their application (briefly). Timber frame structure Typical characteristics of a timber structure (Roof, brackets, railings etc), flooring basics, timber posts. 		
Reference Books:		
 Building Construction Vol. 1, 2, &3 - W. B. Mackey Construction and material handbook P. N. Khanna Building Construction Handbook - R. Chudley and R. Greeno Technology of Interior Construction by Vasudeo Channapattam - Part 1 Design Fundamental in Architecture by V.S Parmar 		
Interior Design Illustrated by Francis DK Ching		

Paper No.	SUBJECT – ABILITY ENHANCEMENT COURSE	Total Theory Hours	Total Session of 3 hours	Studio Hours	Total Session of 1 to 2 hours each
BIDS2P18	PRESENTATION AND COMMUNICATION SKILLS-THEORY OF MATERIALS- II	15	5	30	15
	 Unit - 1 ➤ Theory of material- natural and man - made contd. ➤ Timber- Introduction of Timber as a natural product, Timber yielding Indian tress, Uses of timber in building construction. ➤ Types of timbers (softwood, hardwood) and its characteristics-(knots, Slope of grain, density etc.) ➤ Conversion of timber, sawing techniques, Seasoning methods; ➤ Defects of timber natural and seasoning, strengthening of timber, preservatives application, properties, advantages, uses. ➤ Engineered wood products- Glulam, Plywood, engineered wood, chip boards, fibre board, Laminated veneer lumber, block board, laminates, veneers etc. Artificial Timber ➤ Plywood- Types, grading, usesfinishes. ➤ Introduction to Wood and Wood based- Hardwood, softwood- Strip flooring, plank flooring, block flooring Unit - 2 ➤ Study of various natural & man - made materials -Wall material & Finishes ➤ Introduction to Sand as an aggregate material ➤ Cement- contents, types, categories, uses, advantages, cement products. ➤ Introduction to Sand as an aggregate material ➤ Mortar- understanding mortar and its processity. uses preparatise of anot 				
	mortar, Process of application, preparation, properties, types -				

		Cement mortar, lime mortar, surkhi		
		mortar, gauged mortar, mud mortar.		
	\succ	Concrete- concrete contents, uses and		
		types, Grade of concrete, preparation		
		of concrete mix, compaction, curing		
		of concrete.		
	≻	Understanding formwork, Shuttering,		
		scaffolding.		
	\succ	Introduction to concrete Blocks- sizes		
		and uses, Dry wall Partitions, screens,		
		dividers etc.		
	≻	Plaster- contents, Use, method and		
		process of application, surface		
		preparation, lathing, understanding		
		coats of plaster based on use and finish		
	≻	Types of plaster- Gypsum plaster,		
		Portland cement plaster/ stucco		
		plaster, waterproof plaster, lime		
		plaster, composite plaster, acoustic		
		plaster, keene's cement plaster		
	\succ	Wall finishes- Understanding paints &		
		types of paints with application,		
		charcoal sheet, tile cladding, wood		
		panelling, plaster finishes, laminates,		
		skirting, dado		
	<u>Unit –</u>	<u>. 3</u>		
	\succ	Glass- manufacturing process,		
		defects, uses, Application.		
		Types of glass- patterned glass, wire		
		lypes of glass- patterned glass, wire glass, heat absorbing/ tinted		
		glass, heat absorbing/ tinted glass, reflective coated glass,		
		lypes of glass- patterned glass, wire glass, heat absorbing/ tinted glass, reflective coated glass, tempered glass, toughened glass etc.		
		Types of glass- patterned glass, wire glass, heat absorbing/ tinted glass, reflective coated glass, tempered glass, toughened glass etc. Different uses of glass, tools for		
		Types of glass- patterned glass, wire glass, heat absorbing/ tinted glass, reflective coated glass, tempered glass, toughened glass etc. Different uses of glass, tools for cutting, hardware used for fixing,		
		Types of glass- patterned glass, wire glass, heat absorbing/ tinted glass, reflective coated glass, tempered glass, toughened glass etc. Different uses of glass, tools for cutting, hardware used for fixing, methods of fixing, thicknesses etc.		
		Types of glass- patterned glass, wire glass, heat absorbing/ tinted glass, reflective coated glass, tempered glass, toughened glass etc. Different uses of glass, tools for cutting, hardware used for fixing, methods of fixing, thicknesses etc. Introduction to glazing system (SGU,		
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	A A AA A A	Types of glass- patterned glass, wire glass, heat absorbing/ tinted glass, reflective coated glass, tempered glass, toughened glass etc. Different uses of glass, tools for cutting, hardware used for fixing, methods of fixing, thicknesses etc. Introduction to glazing system (SGU, DGU) -energy performance of window system. Advantages and disadvantages Clay and Clay products - Classification of clay based on products- Brick clay, China clay, Fire clay, Bentonite Clay -advantages, disadvantages, sizes, application- Terracotta, stoneware, Vitreous China, Porcelain Plastic-Properties, resistance, durability of plastic as a metarial		
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	A A AA A A A	Types of glass- patterned glass, wire glass, heat absorbing/ tinted glass, reflective coated glass, tempered glass, toughened glass etc. Different uses of glass, tools for cutting, hardware used for fixing, methods of fixing, thicknesses etc. Introduction to glazing system (SGU, DGU) -energy performance of window system. Advantages and disadvantages Clay and Clay products - Classification of clay based on products- Brick clay, China clay, Fire clay, Bentonite Clay -advantages, disadvantages, sizes, application- Terracotta, stoneware, Vitreous China, Porcelain Plastic-Properties, resistance, durability of plastic as a material, Application in buildings. Types of plastic- polymers, pvc, polyurethanes, polyetyrene etc.		

Products based on plastic types- Wall			
tiles, Coatings, Adhering films,			
flooring, vinyl carpet, products for			
ceiling, Use in sanitary fixtures, pipes			
Introduction to ceiling –			
> Type of Ceiling-Advantages of false			
ceiling, material used for ceiling-			
gypsum ceiling, pop levelling and re			
nlastering of ceiling			
 conventional suspended coffered 			
tray coved beam exposed ceiling			
 Mouldings method of installation of 			
ceiling			
 Brands and tentative rates 			
Drands and tentative rates			
Unit – 4			
> History of architecture period			
furniture (Indian/Foreign)			
 Transition of design materials design 			
revolution from ancient time till			
modern times reference images			
styles design elements motifs etc			
 Fgypt (Greek empire roman empire) 			
dark ages)			
 Byzantine empire Renaissance 			
period gothic Baroque Traditional			
Industrial Revolution Neoclassical			
Contemporary etc			
 Deriod furniture specific reference of 			
designs and designers based on design			
eras and transition			
\searrow Use of historical themes in modern			
furniture materials			
furniture, materials			
Reference Books			
Construction of Ruildings Volume 1			
Seventh Edition - P Barry			
 Building Construction Illustrated 			
second edition Francis D K Ching			
 A Global History of Architecture 2nd 			
edition - Ching Francis Mark			
Time-Saver Standards for Interior			
Design and Space Planning Second by			
DeChiara			
Interior Design by Ahmed			
Kasu			
> History of Architecture by Serem			
Andrew			
> A history of Interior Design second			
edition by John Wiley and Sons 2005			
called by some trilly und bons 2005	1	1	1

Paper No.	SUBJECT - VALUE EDUCATION COURSE	Total Theory Hours	Total Session of 2hours	Studio Hours	Total Session of 2 hours each
BIDS2P19	ENVIRONMENT STUDY	30	15		
	Unit -1➤ Environment, factors governing it➤ Healthy, polluted environment➤ Pollution- Causes, effects, prevention➤ Soil, air, water pollution➤ Noise pollution➤ Nuclear hazards				
	<u>Unit – 2</u> → Waste Management, types → Solid waste management → Disaster management → Case studies				
	 <u>Unit - 3</u> ➢ Environment ethics and related issues, solutions ➢ Sustainable development ➢ Water conservation, rain water harvesting ➢ Case study 				
	 <u>Unit - 4</u> ➤ Weather and climate ➤ Climate changes, global warming, ozone layer depletion ➤ Solutions- scope and limitations ➤ Environment protection act 				
	 Reference Books: ➤ Hazardous Waste Incineration by Brunner R.C, McGraw Hill Environmental Encyclopedia by Cunningham, W.P.Cooper 				

Paper No.	SUBJECT – CO-CURRICULAR COURSE	Total Theory Hours	Total Session of 3 hours	Studio Hours	Session of 1 to 2 hours each
BIDS2P20	EVENT MANAGEMENT- FINE ARTS,	15	5	30	15
	POSTER MAKING, STALL DESIGN,				
	FREEHAND SKETCHING RENDERING				

Total

<u>Unit – 1</u>

- Freehand techniques making cubes, pyramid with paper, card board, arranging them as 3D structure
- Draw that 3D structure in one point perspective.
- With the help perspective of 3D structure draw 5 different angles.
- Render with Colour same perspective.
- ➢ 3D structure rendering with Poster, water colour etc.
- Advanced pencil rendering

<u>Unit – 2</u>

- Study of human anatomy
- > Perspective view of the human figures.
- Colour wheel and colour scheme analogous and complementary
- Colour schemes contd. Triads, understanding hue, tint, tone, shade.
- Make some commercial Design out of these colours. (Activity)

<u>Unit - 3</u>

- Freehand drawing techniques: Two and Three Perspective drawing.
- Perspective drawing Introduction to two point, object drawing, 3D shapes, pencil rendering in light and dark shades.
- ➢ Bird's eye view and ant views.
- Two point perspective with different furniture items, home appliances.
- Perspective Interiors and exterior (rendered in pencil).
- Natural and technical way of drawing human figures with proportion, front view, 2 point perspective with pencil rendering.

Freehand perspective – one point, two point perspective interior/exterior with reference to layouts with rendering, colouring (water colours, poster colours)

<u>Unit – 4</u>

- Outdoor sketching Nature, Cityscapes
- Creative application of design principles – Making 2D, 3D Mural, sculpture design, with texture
- ▶ Final Mural or sculpture output.

Reference Books:

- Rendering with Pen and Ink W. Robert Gill
- Water Colour Sketching Milind Mulik

PASSING PERFORMANCE GRADING : The Performance Grading of the learner shall be on ten point scale be adopted uniformly.

Semester GPA/ Program CGPA Semester / Program	% of Marks	Alpha-Sign/Letter Grade Result	Grading Point
9.00 - 10.00	90.0 - 100	O (Outstanding)	10
8.00 - < 9.00	80.0 < 90.0	A+ (Excellent)	9
7.00 - < 8.00	70.0 < 80.0	A (Very Good)	8
6.00 - < 7.00	60.0 < 70.0	B+ (Good)	7
5.50 - < 6.00	55.0 < 60.0	B (Average)	6
5.00 - < 5.50	50.0 < 55.0	C (Pass)	5
Below 5.00	Below 50	F (Fail)	0
AB (Absent)		Absent	

Letter Grades and Grade Point

NOTE : VC : Vocational Courses, SEC : Skill Enhancement Courses, AEC : Ability Enhancement Courses, VEC

: Value Education Courses, VSC : Vocational Skill Course, IKS : Indian Knowledge System, OJT: On The Job Training, FP: Field Projects.

The performance grading shall be based on the aggregate performance of Internal Assessment and Semester End Examination.

The Semester Grade Point Average (SGPA) will be calculated in the following manner: SGPA = $\sum CG$ / $\sum C$ for a semester, where C is Credit Point and G is Grade Point for the Course/Subject.

The Cumulative Grade Point Average (CGPA) will be calculated in the following manner: CGPA = $\sum CG / \sum C$ for all semesters taken together.

PASSING STANDARD:

Passing 50% in each subject /Course separate Progressive Evaluation (PE)/Internal Evaluation and Semester-End/Final Evaluation (FE) examination.

A. Carry forward of marks in case of learner who fails in the Internal Assessments and/ or Semester-end examination in one or more subjects (whichever component the learner has failed although passing is on total marks).

B. A learner who PASSES in the Internal Examination but FAILS in the Semester-end Examination of the Course shall reappear for the Semester-End Examination of that Course. However, his/her marks of internal examinations shall be carried over and he/she shall be entitled for grade obtained by him/her on passing.
C. A learner who PASSES in the Semester-end Examination but FAILS in the Internal Assessment of the course shall reappear for the Internal Examination of that Course. However, his/her marks of Semester-End Examination shall be carried over and he/she shall be entitled for grade obtained by him/her on passing

R ALLOWED TO KEEP TERMS (ATKT)

- A. A learner shall be allowed to keep term for Semester II irrespective of number of heads/courses of failure in the Semester I.
- B. A learner shall be allowed to keep term for Semester III wherever applicable if he/she passes each of Semester I and Semester II.

OR

- C. A learner shall be allowed to keep term for Semester III wherever applicable irrespective of number of heads/courses of failure in the Semester I & Semester II.
- D. A learner shall be allowed to keep term for Semester IV wherever applicable if he/she passes each of Semester I, Semester II and Semester III.

OR

- E. A learner shall be allowed to keep term for Semester IV wherever applicable irrespective of number of heads/courses of failure in the Semester I, Semester II, and Semester III
- F. A learner shall be allowed to keep term for Semester V wherever applicable if he/she passes each of Semester I, Semester II, Semester III and Semester IV.

OR

- G. A learner shall be allowed to keep term for Semester V wherever applicable irrespective of number of heads/courses of failure in the Semester I, Semester II, Semester II, Semester IV.
- H. The result of Semester VI wherever applicable OR final semester shall be kept in abeyance until the learner passes each of Semester I, Semester II, Semester III, Semester IV, Semester V wherever applicable.

OR

I. A learner shall be allowed to keep term for Semester VI wherever applicable irrespective of number of heads/courses of failure in the Semester I, Semester II, Semester IV and Semester V.

University of Mumbai's Garware Institute of Career Education and Development Board of Studies – Committee members Bachelor of I nterior Design Held on 10th July, 2023 at 11.00 a.m.

Sr. No.	Name	Signature
1	Dr. Keyurkumar M. Nayak Director, UM-GICED	Kmvayak
2	Arc. Rajeev Mishra, Principal, Sir J J College of Architecture, University of Mumbai,Mumbai.	Chris
3	Ms. Shilpa Borkar, Placement officer & Course Coordinator, UM-GICED	SBoul
4	Arc. Ms. Aishana Pradhan, Head of Department, School of Interior Design, Rachna Sansad, 278, Shankar Ghanekar Marg, Prabhadevi, Mumbai 400 025.	Ashadh
5	Arc. Rupali Mande R design architects, office no.1312, Suswagatam, building no.41, Opposite to PMC Bank, Tagore Nagar, Vikhroli (East), Mumbai.	Barole
6	Arc. Vikram Apte, Faculty, UM-GICED	Annon
7	Arc. Shama Kulkarni, Faculty, UM-GICED	and
8	Arc. Mehvish Qureshi Faculty, UM-GICED	MD
9	Arc. Sushmita Shivdas Faculty, UM-GICED	gued
10.	Ms. Nirmala Vishwakarma	Dimme line.

Kmvayak.

Dr. Keyurkumar M. Nayak, Director, UM-GICED

Prof.(Dr.) Anil Kumar Singh Dean, Faculty of Interdisciplinary Studies

Appendix B

Justification for (Bachelor of Interior Design)

1.	Necessity for starting	The University of Mumbai's Garware Institute of Career Education	
	the course	& Development plans to introduce a four-year full time Bachelor of	
		Interior Design. The society today has become quite aware of	
		aesthetics and beautiful way of living the life. Accordingly, the	
		people are conscious of getting their bungalows, apartments, offices	
		designed and decorated with the latest ideas. Hence there is good	
		demand for interior designers from the best interior designing	
		colleges in Mumbai in cities and small towns, giving opportunity to	
		Interior designers to build their career.	
2.	Whether the UGC has	Yes, UGC has recommended the course as per gazette no. DL(N)-	
	recommended the	04/0007/2003-05 dated 11th July 2014. UGC encourages the	
	course:	incorporation of skill oriented and value-added courses to develop	
		skilled manpower.	
3.	Whether all the courses	Yes, it would be commencing from the Academic year 2023-24 as	
	have commenced from	per NEP 2020. However, the course was launched in the year 2017.	
	the academic year 2023-		
	2024		
4.	The courses started by	Yes, this course is self-financed. The expert visiting faculty from	
	the University are self-	industries come to teach this course.	
	financed, whether		
	adequate number of		
	eligible permanent		
	faculties are available?		
5.	To give details	The duration of the course is four year (Eight Semesters). It cannot	
	regarding the duration	be further compressed.	
	of the Course and is it		
	possible to compress the		
	course?		
6.	The intake capacity of	The intake capacity of this course is 120 students. The admission	
	each course and no. of	procedure is still ongoing.	
	admissions given in the		
	current academic year:		
7.	Opportunities of	Job opportunities are as Interior Designers, Landscape Designers,	
	Employability/	Set Designers, Event Management, Doing Office Work as Designer	
	Employment available	and Site Supervisor, Freelancing.	
	after undertaking these		
	courses:		

Kmvayak.

Dr. Keyurkumar M. Nayak, Director, UM-GICED

Prof.(Dr.) Anil Kumar Singh Dean, Faculty of Interdisciplinary Studies