

Program and Course Structure

School of Architecture and Planning Bachelor of Design SAP0201

(Specialization in Interior Design) Batch 2020-2024



1. Standard Structure of the Program at University Level

1.1 Vision, Mission and Core Values of the University

Vision of the University

To serve the society by being a global University of higher learning in pursuit of academic excellence, innovation and nurturing entrepreneurship.

Mission of the University

- 1. Transformative educational experience
- 2. Enrichment by educational initiatives that encourage global outlook
- **3.** Develop research, support disruptive innovations and accelerate entrepreneurship
- 4. Seeking beyond boundaries

Creative Campaign Can be TEDs: This is guiding principle for promotion and wide circulation among various stakeholder.

Guidelines: Similar Mnemonics can be designed by schools.

Core Values

- Integrity
- Leadership
- Diversity
- Community



School of Architecture & Planning

1.2 Vision and Mission of the School

Vision of the School

To be amongst the top institutes in India imparting quality education and professional skills to the students to emerge as architects of global calibre and thus the society in large.

Mission of the School

- 1. To create and sustain a stimulating and responsive academic inclusive environment.
- 2. To regularly enhance the teaching contents & techniques in keeping with current and future trends.
- 3. To provide a competitive and career-oriented programme.
- 4. To encourage students to be socially responsive and responsible architects

Core Values

- Innovation
- Awareness
- Information
- Ethics

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DEPARTMENT OF DESIGN

1.2.1 Vision and Mission of the Department

Vision of the Department

To be a centre of excellence in design education for developing a fresh generation of creative entrepreneurs, who will imbibe a critical thinking and problem solving approach to provide creative solution through collaborative team efforts at different levels of society.

Mission of the Department

- 1. To develop in creating a world class centre of independent design thinking in bringing advanced innovation in design industry.
- 2. Promoting in depth research on local skills, materials and sustainable methods while also keeping in mind the untapped potential of Indian craftsmanship for strengthening Indian culture and society.
- 3. To make indomitable efforts to transcend the image of India as a production resource to a design facilitator on a world map.



1.3 Program Educational Objectives (PEO)

- **PEO1**: The curriculum shall provide the students the flexibility to create their identity and generate in them the instinct to create a niche for themselves when exposed to the industry as professionals.
- **PEO2**: The curriculum shall provide them learning acquired by explorations in the field of Interior design to create indelible experiences and innovate with their highest creative potential to serve the society at their best.
- **PEO3**:The program shall include more hands on experience with regular workshops and updated trends in Interior design industry. It shall provide basic tools, skills, and materials for exploratory exposure understanding nuances of history, Art, culture, traditions and their evolution with the people. It shall excite them to understand evolved craftsmanship and concurrent needs.
- **PEO4**:Promoting humanity and culture in designing systems and environments to improve the human condition, an approach that draws on design thinking.



1.3.2Map PEOs with School Mission Statements:

PEO Statements	School Mission- 1	School Mission- 2	School Mission- 3	School Mission-
PEO1:	2	2	1	-
PEO2:	2	3	1	-
PEO3:	3	1	2	-
PEO4:	1	2	3	-

Enter correlation levels 1, 2, or 3 as defined below:

1. Slight (Low) 2. Moderate (Medium) 3. Substantial (High)

If there is no correlation, put "-"

1.3.2 Map PEOs with Department Mission Statements:

PEO Statements	Department Mission-1	Department Mission-2	Department Mission-3
PEO1:	3	2	1
PEO2:	2	3	1
PEO3:	2	3	1
PEO4:	2	2	2

Enter correlation levels 1, 2, or 3 as defined below:

1. light (Low) 2. Moderate (Medium)

3. Substantial (High)



1.3.3 Program Outcomes (PO's)

PO1: **Project & research based learning** at the center of the educational experience

PO2: Develop **community engagement and service-learning** to provide students with opportunities to experience problem finding and solving in the different areas.

PO3: Support learning **outside the classroom** to expand understanding of the profession and practice.

PO4: Demonstrate and employ hand drawing and drafting principles to convey concepts.

PO5: Work well together as emerging team players and innovative design thinkers with knowledge of professional ethics and social responsibilities.

PO6: Bring their evolving design point-of-view and work aesthetics to various types of imaginative challenges.

PO7: Adapt their inspired knowledge and abilities to ongoing changes in global trends and related creative industries,

PO8: Understand and implement new technologies relative to design development.

PO9: Identify the business practices and entrepreneur skill needed for the profession.

PSO1: Research focused design exploration using in-depth historical, market & trend research.

PSO2: To design with hands on approach establishing connection between history of Indian Art and future industry.

PSO3: Aspects of site work and understanding the sequence and all services and estimate in relation of nature of interior design project.

PSO4: Project based & Industry aligned learning to develop as Entrepreneurs with Brand Building Approach



1.3.4 Mapping of Program Outcome Vs Program Educational Objectives

	PEO1	PEO2	PEO3	PEO4
PO1	1	3	2	1
PO2	-	2	1	2
PO3	3	2	1	-
PO4	1	2	2	1
PO5	1	-	2	3
PO6	-	3	1	3
PO7	3	-	2	1
PO8	2	3	1	1
PO9	-	2	3	-
PSO1	3	2	2	3
PSO2	2	3	2	3
PSO3	3	3	3	3
PSO4	3	3	3	3

1. Slight (Low)

2. Moderate (Medium)

3. Substantial (High)



Program Outcom e	Course Name	P01	PO2	PO3	PO4	PO5	P06	PO7	PO8	P09	PSO1	PSO2	PSO3	PSO4
Courses														
TERM-I														
BDZ138	Basic of Design	2	1	3	3	1	3	1	2	-	1	2	2	3
BDZ137	Free hand Drawing	2	1	2	3	1	3	1	2	2	3	2	2	3
BDZ139	Introduction to Digital design & presentation	2	1	3	-	1	1	1	2	2	1	2	2	3
CCU302	Community Connect	2	1	3	3	1	3	1	2	2	1	2	2	-
OPE111	Basic Sketching	3	1	3	2	1	3	1	1	2	1	2	2	3
ARP101	Communicative English-I	2	1	3	3	1	3	1	2	2	1	2	1	2
BDZ140	History 1- History of Art-I	-	1	3	3	1	3	1	2	2	1	-	-	-
TERM-II														
BDH101	Interior Design Studio -1	2	1	3	3	1	3	1	2	2	1	2	2	3
BDH102	Materials, Construction& Finishes I	3	2	3	2	3	2	3	-	-	3	3	2	3
BDH103	Digital 1	2	1	2	3	1		-	2	2	3	2	2	3
OPE216	Design Thinking	2	1	3	3	1	3	1	2	2	1	2	2	3
ARP	Communicative English II	2	1	3	3	-	-	1	2	-	1	2	2	3
BDC102	Environmental Science	2	1	3	3	1	3	1	2	2	1	2	3	3
BDC101	History 2- History of Art-II	2	-	-	3	1	-	-	2	2	1	-	-	-
TERM-III														
IDJ 301	Interior Design Studio -II	1	2	1	3	3	3	1		3	2	3	3	3
IDJ 302	Materials, Construction & Finishes II	3	3	3	1	_	3	2	2	3	3	3	2	3
IDJ 303	Digital II	3	3	3	1	2	3	2	2	3	3	2	3	2

											SH	IA IVE	RI)A
IDJ 304	Building Services-I (Lighting Design-I)	1	2	1	3	3	3	1	¥	3	2 2	3	3	3
	OPE/MOOC													
	VAC													
	RSP/Craft Documentation	3	1	2	3	2	2	3	2	3	2	3	3	3
TERM- IV														
TIP 401	Trends &Forecasting					3	1		3	2	3	3	3	2
IDJ 405	Visual Merchandising	3	3	3	1		3	2	2	3	3	2	3	2
IDJ 401	Interior Design Studio -III	1	2	1	3	3	3	1		3	2	3	3	3
IDJ 402	Materials, Construction& Finishes III	3	1	3	3	-	-	3	2	3	3	2	3	-
IDJ 403	Digital III	2	3	3	1		2	2	2	3	3	2	2	2
IDJ 404	Building Services- II(Electrical & HVAC)	1	2	1	3	-	2	1		3	2	3	2	3
	OPE/MOOC	1	2	1	3	3	3	1		3	2	3	3	3
	VAC	-	-	-	-	-	-	-	-	-	-	-	-	-
TERM-V														
JIT501	Design Innovation	3	3	3	1		3	2	2	3	3	2	3	2
IDJ 501	Interior Design Studio -4	1	2	1	3	3	3	1	3	3	2	3	3	3
IDJ 502	Materials ,Construction & Finishes IV	3	1	2	3	2	2	3	2	3	3	2	3	2
IDJ 503	Digital IV	2	3	3	1		2	2	2	3	3	2	2	2
IDJ 504	Services-III (Plumbing, Firefighting and Acoustics)	1	2	1	3	3	3	1		3	2	3	3	3
JIT502	Furniture Design	2	3	3	1	2	2	2	2	3	3	2	3	2

									1		SH	[A]	RI	<u>)</u> A
I	I	1	1	1	1	1	1	1		1	UN		RS	1 T Y
	DSE	-	-	-	-	-	-	-	-	-	-	-	-	-
	VAC	-	-	-	-	-	-	-	-	-	-	-	-	-
	RSP/Craft Documentation (4 credit NGPA)	-	-	-	-	-	-	-	-	-	-	-	-	-
TERM- VI														
JIT610	Research & Methodology	3	3	3	1	1	3	2	2	3	3	2	3	2
IDJ 604	Furnishing Textile & Accessory	1	2	1	3	3	3	1		3	2	3	3	3
IDJ 601	Interior Design Studio -V	3	1	2	3	2	2	3	2	3	3	2	-	2
IDJ 603	Estimation & Specifications	2	3	3	1	-	2	2	2	3	3	2	3	-
IDJ 602	Futuristic Interiors	1	2	1	3	3	3	1	-	-	2	3	2	3
	DSE													
	VAC													
TERM- VII														
TIP701	Intellectual Property Rights	2	2	2	3	2	3	2	1	2		3	2	2
IDT701	Professional Practice	3	1	-	3	2	2	3	2	3	2	3	2	3
IDJ701	Interior Design Studio -6	2	2	2	3	2	3	2	-	-	2	-	-	-
IDJ702	Heritage Interiors	3	3	3	3	1	2	3	2	2	3	3	2	3
JIP710	Dissertation	1	3	3	3	1	2	-	1	3	3	3	1	2
JIP711	Portfoilo	1	2	-	-	3	2	-	3	-	2	1	1	1
	VAC													
	Summer Indusrial [project/ RSP													

										j,	SH		RI)A
TERM- VIII														
IDT801	Graduation Project	3	3	3	3	1	2	3	2	2	3	3	3	3
	VAC	2	3	3	1	3	2	2	2	3	3	2	2	2
IDT802	Internship 10 credits(NGPA) (May-July)	1	2	1	3	3	3	1	2	3	2	3	3	3

SHARDA UNIVERSITY



School of Architecture and Planning/SAP

Program / Branch/Specialization: BACHELOR OF DESIGN/Interior Design

Semester/Term.: 1

Session: 2020-2024

TERM: I

Pape			Те	eacl Loa	ning ad		Core/Elect	1.CC, 2-	
S. No.	Pape r Id	Subjec t Code	Subjects	L	т	Ρ	Credi ts	Requisite, Co- Requisite	AECC, 3- SEC,4- DSE
JURY SUBJEC TS									-
1	111 80	BDZ13 8	Basic of Design	2	2	2	6	Core	сс
2	1117 9	BDZ13 7	Free hand Drawing	2	2	6	10	Core	сс
3	1118 1	BDZ13 9	Introduction to Digital design & presentation	0	1	2	3	Co- requisite	SEC
4	1204 2	CCU30 2	Community Connect	0	0	2	2	Co Requsite	DSE
Elective	CBCS	0.05	[
6	9	0PE 111	Basic Sketching	0	1	2	2		
THEORY	SUBJEC	TS							
7	1625 4	ARP10 1	Communicative English-I	1	0	2	2	Pre requisite	AECC
8	1118 2	BDZ14 0	History 1- History of Art-I	2	0	0	2	Core	СС
							27		
			Total						
			TERM II						
S. No.	Pape r Id	Subjec t Code	Subjects	L	т	Ρ	Credi ts		

								SHA	ARDA
JURY SUBJEC TS									
		BDH1 01	Interior Design Studio -1	2	2	6	10	Core	сс
		BDH1 02	Materials, Construction& Finishes I	1	1	2	4	Core	сс
		BDH1 03	Digital 1	1	0	2	3	Co requisite	
4	1114 4	OPE21 6	Design Thinking	0	1	2	2	Pre requisite	
5	1634 2	ARP	Communicative English II	1	0	2	2	Pre requisite	AECC
THEORY	SUBJEC [®]	TS							
1	114 28	BDC10 2	Environmental Science	2	0	0	2	C0 requisite	AECC
2	1142 7	BDC10 1	History 2- History of Art-II	2	0	0	2	Core	сс
			Total				25		
			TERM III						
S. No.	Pape r Id	Subjec t Code	Subjects	L	т	Ρ	Credi ts		
JURY SU	BJECTS								
		IDJ 301	Interior Design Studio -II	0	4	8	12	Core	сс
		IDJ 302	Materials, Construction & Finishes II	1	1	2	4		
		IDJ 303	Digital II	0	2	2	4	Pre requisite	AECC
		IDJ 304	Building Services-I (Lighting Design-I)	0	1	2	3		
THEORY		TS							
	SODIEC								
		TIP30 1	History of Design	2	0	0	2		
		TIP30 1 TIP30 2	History of Design Sustainable Design Practices	2	0 0	0	2 2	Core	сс
		TIP30 1 TIP30 2	History of Design Sustainable Design Practices OPE/MOOC	2	0	0	2	Core	СС
		TIP30 1 TIP30 2	History of Design Sustainable Design Practices OPE/MOOC VAC	2	0	0	2	Core	сс

*	SHARDA
	UNIVERSITY Beyond Boundaries

		1				i.		Beyond	Boundaries
			Total				31		
		T	TERM IV	1	1		1	1	
S. No.	Pape r Id	Subjec t Code	Subjects	L	т	Р	Credi ts		
JUR	Y SUBJE	СТЅ							
1		IDJ 405	Visual Merchandising	1	0	2	3		
2		IDJ 401	Interior Design Studio -III	0	3	8	11	Core	сс
3		IDJ 402	Materials, Construction& Finishes III	1	1	2	4	Core	сс
4		IDJ 403	Digital III	0	2	2	4	Pre requisite	AECC
5		IDJ 404	Building Services-II(Electrical & HVAC)	0	1	2	3		
			OPE/MOOC				2		
			VAC						
THEO	RY SUB.	IECTS							
		TIP 401	Trends & Forecasting	2	0	0	2		
			Total				29		
			TERM V						
S. No.	Pape r Id	Subjec t Code	Subjects	L	т	Ρ	Credi ts		
JUR	Y SUBJE	СТЅ							
		JIT501	Design Innovation	0	1	2	3		
1		IDJ 501	Interior Design Studio -4	0	2	8	10	Core	сс
2		IDJ 502	Materials ,Construction & Finishes IV	1	1	2	4	Core	сс
3		IDJ 503	Digital IV	0	2	2	4		AECC
4		IDJ 504	Services-III (Plumbing, Firefighting and Acoustics)	0	1	2	3	Pre requisite	SEC
5		JIT502	Furniture Design	0	2	2	4		
			VAC						
			DSE				2		DSE
			RSP/Craft Documentation (4 credit NGPA)						



THEO	RY SUBJ	IECTS							
			Total				30		
			TERM VI						
S. No.	Pape r Id	Subjec t Code	Subjects	L	т	Ρ	Credi ts		
JUR	Y SUBJE	СТЅ							
		JIT610	Research & Methodology	0	2	2	4		SEC
		IDJ 604	Furnishing Textile & Accessory	1	0	2	3		
		IDJ 601	Interior Design Studio -V	0	5	8	13	Core	сс
		IDJ 603	Estimation & Specifications	0	1	2	3	Pre requisite	SEC
		IDJ 602	Futuristic Interiors	0	1	2	3		AEC
			DSE				2		
			VAC						
THEORY	SUBJEC	TS							
		IDT 601	Fit out Management	2	0	0	2		
			Total				30		
			TERM VII						
S. No.	Pape r Id	Subjec t Code	Subject	L	т	Ρ	Credi ts		
JUR	Y SUBJE	СТЅ							
		IDJ 701	Interior Design Studio-VI	0	2	10	10	Core	сс
		IDJ 702	Heritage Interiors	0	2	2	4		SEC
		JIP710	Dissertation	0	2	4	6		AECC
		JIP711	Portfolio	0	1	2	3		
			VAC						
		IDJ 703	Summer Industrial [project/ RSP						
THEO	RY SUBJ	IECTS							
		IDT 701	Professional Practice	2	0	0	2	Core	
		TIP70 1	Intellectual Property Rights	2	0	0	2		



								Beyond	Boundaries				
			Total				28						
	TERM VIII												
S No	Pape	Subjec	Subjects		т	P	Credi						
5. 10.	r Id	t Code	Subjects	-	•	•	ts						
JUR	Y SUBJE	CTS											
		IDT	Graduation Broject	0	л	10	16	Coro					
		801	Graduation Project	0	4	12	10	COLE	CC				
		IDT	Internship 10 credits(NGPA)	2	2	6	10		NGP				
		802	(May-July)	2	2	0	10		А				
			VAC										
			Total Credits				16						

^[1] CC: Core Course, AECC: Ability Enhancement Compulsory Courses, SEC: Skill Enhancement Courses, DSE: Discipline Specific SE Courses

С



III Semester



Scho	ool: SAP	Batch :2020-2024									
Prog	ram: B.Design	Academic Year: 2020-2021									
Brar	ch:Interior	Semester: III									
Desi	gn										
1	Course Code	IDJ 304									
2	Course Title	Building Services-I(Lighting Design-I)	uilding Services-I(Lighting Design-I)								
3	Credits	3									
4	Contact	45 Hrs. (0-1-2)									
	Hours										
	(L-T-P)										
	Course Status	Compulsory									
5	Course	1. Basics of Light , the types of lights and their classificatin	S.								
	Objective	2. Terminologies of Lighting.									
		3. Basics of electricity and electrical distribution systems.									
		4. Understand the relation of lighting with the Human ant	hropometry.								
		4. Case studies for the students to make them understan	d the								
		concept of lighting design ,selection of and placement of	luminaries .								
		5. Understanding the terminologies of light such as CRI, in	tensity, glare,								
	-	Colour Temperature and there effects.									
6 Course After the completion of this course, student will be able to:											
	Outcomes	201: Make appropriate use of Natural light in interiors									
		CO2: Understand Lighting and its effects on a person's Psychology.									
		CO3: Lighting terminology, laws and calculation									
		CO4: Sources of light – artificial and natural.									
		COS: Lighting techniques - Ambient lighting, functional light	nting, task								
		lighting and highlighting.									
7	Course	CO6: Evaluating the issues of lighting in a particular space.									
/	Course	Lighting Design and Practice of Interior Lighting. This court									
	Description	Lighting Design and Practice of Interior Lighting. This course also allows									
		and their properties. Moreover they will study the variou	ypes of lights								
		and then properties. Moreover they will study the variou	s case studies								
		Bedroom and also for the basic layout of small offices	nii, Kitchen,								
0	Outling syllabu	bedroom and also for the basic layout of small offices.	CO Manning								
0	Unit 1	s Basic theory of light and its significance									
		Fundamentals of properties of light	<u></u>								
	~		CO1,								
	B	Introduction of the history of architectural lighting	02,004								
	C	Davlighting & Artificial light									
<u> </u>	Unit 2	Terminologies of lighting along with the types of lights									
		and their									
	A	General/Ambient, Task ,Accent lighting	CO1, CO3,								
			CO5								



				. Beyong Boundaries					
В	Types of light	sources							
С	Luminous inte	ensity, Flux, Illu	iminance, Luminance,						
	Exposure								
Unit 3	Light, its distr								
	emotional eff								
А	Distribution o								
В	Psychological								
С	Lighting layou	its							
Unit 4	Basic Lighting	Calculations	and layers of light	CO1, CO3					
А	Fundamental	undamental formula within a given area							
В	Introduction t	ntroduction to layers							
С	Combination	ombination Lights							
Unit 5	Introduction	CO1,CO2							
	studies on Ele	CO3,CO4,							
				CO6					
А	Symbols and	representation	of reflective electrical Plan						
В	Lighting Case	studies - kitch	en, bathroom						
С	Lighting Case	studies – basio	residential plans						
Mode of	Jury								
examination									
Weightage	CA	MTE	ETE						
Distribution	60%	0%	40%						
Text book/s*	ERCO Handbook	of Lighting Desig	n, Light Design Basics –Mark						
	Karlen, Time-Sav	er Standards of Ir	iterior Design & Space planning-						
 Other	Joseph de Chaira	1							
Uther									
References									

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
COs													
CO1	1	1	2	2	2	1	1	1	1	1	1	2	2
CO2	3	1	1	2	1	1	2	2	1	1	1	2	3
CO3	1	2	3	3	3	2	3	1	1	2	3	1	1
CO4	2	1	2	2	1	1	1	2	3	1	1	2	2
CO5	2	1	1	2	3	3	2	1	1	2	3	1	2
CO6	1	3	2	2	2	2	3	3	3	-	2	3	1

1-Slight (Low) 2-Moderate (Medium) 3-Substantial (High)



Scho	ool: SAP	Batch : 2020-24									
Prog	gram:	Current Academic Year: 2021									
B.DE	ESIGN										
Brar	nch: ID/IPD	Semester: III									
1	Course Code	TIP 301									
2	Course Title	History of Design									
3	Credits	2									
4	Contact	2-0-0									
	Hours										
	(L-T-P)										
	Course Type	Compulsory									
5	Course	This course has been made to enable the learner to s	tudy people's								
	Objective	interaction with objects as well explore social science	techniques to								
		enable the learner to develop understanding so that it	has practical,								
		aesthetic or playful uses.	hnical and								
		theoretical debates in the area of product and furniture	e design.								
6	Course	After the completion of this course, student will be able	e to:								
	Outcomes	comes CO1-Understand and identify socio-cultural relationship of histo									
		and design	. ,								
		CO2-Understand and know the evolution of furniture ar	nd products in								
		various periods.									
		CO3-Learn and apply basic research methods.									
		CO4 Understand design as a responsive medium having	reflections of								
		historical and cultural influences									
		CO5-Employ various digital, visual and verbal skills to	communicate								
		and present ideas.									
		CO6-Demonstrate ability for self-initiated learning and	work in team.								
7	Course	The module introduces the learner to some of	f the eritically								
/	Description	defining key events and precedents that have it	of the critically								
	Description	shaped historical and contemporary design	This module								
		engages with the key design ideologies d	eveloping an								
		understanding of the principles of design an	alveis critical								
		analysis academic writing questioning and deb	alysis, citical								
			ale.								
8	Outline syllabu	IS	CO Mapping								
	Unit 1	Furniture & Product: Till Renaissance	CO2, CO1								
	A	Ancient civilizations and necessity									
	В	Housing and lifestyle									
	С	Design for everyday									
	Unit 2	Furniture & Product: Till mid 19 th Century	CO2								
	А	Baroque & dramatical lights									



В	Rococo & Asy	/mmetry								
С	Traditional &	detailed wood	dwork							
Unit 3	Relating theo	ory and praction	ce	CO3, CO5,						
				CO6						
А	Teamwork									
В	Mentoring &	execution								
С	Presentation	resentation								
Unit 4	Ornate to sin	Ornate to simplification and back								
А	Motifs in Art	Notifs in Art Nouveau								
В	Simplicity & M	Mass production	on of Bauhaus							
С	Zigzag Art De	igzag Art Deco								
Unit 5	Removing lay	Removing layers of exaggeration								
А	Carefree	Carefree Bohemian								
В	Connectir	ng nature in O	rganic							
С	Minimalism a	ind bare essent	ials							
Mode of	Theory/Jury/	Practical/Viva								
examination										
Weightage	CA	MTE	ETE							
Distribution	60%	60% 0% 40%								
Text book/s*	Furniture Des	Furniture Design, Jerzy Smardzewski,								
Other	The Design of	The Design of Everyday Things: Don Norman								
References	Emotional De	Emotional Design: Why We Love (or Hate) Everyday								
	Things, Don N	Things, Don Norman,								
	History of Fu	rniture frederi	ck Litchfield							

С	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
CO1	3	2	-	1	1	2	3	2	2	2	2	-	-
CO2	3	-	1	2	2	-	3	-	2	3	3	1	-
CO3	2	1	2	3	-	2	2	1	-	2	2	-	1
CO4	3	2	3	1	1	3	2	2	1	3	3	1	-
CO5	2	3	1	-	1	-	3	3	2	3	2	-	-
CO6	3	1	-	1	-	2	2	1	3	3	3	-	-

1-Slight (Low) 2-Moderate (Medium) 3-Substantial (High)



Scho	ol: SAP	Batch : 2021-25	
Prog	ram: B. Design	Current Academic Year: 2021-22	
Bran	ch:	Semester: III	
1	Course Code	TIP302	
2	Course Title	Sustainable Design Practices	
3	Credits	2	
4	Contact Hours	2-0-0	
	(L-T-P)		
	Course Status	CORE	
5	Course	The objective of the course is to trigger awareness	
	Objective	among students about the need & approach to	
		research & design for a sustainable future. The course	
		is a valuable effort to make students to have a very	
		intensive learning and	
6	Course	After the completion of this course, student will be	
	Outcomes	able to:	
		CO1: instigate the need for being sustainable &	
		sincerely understand the vision of SDG	
		CO2: expand the sustainable approach to map	
		with economic progress of individuals or	
		companies	
		CO3: Learn thoroughly the sustainable design	
		process	
		CO4: Equip students with necessary knowledge	
		to research & design for a sustainable	
		future.	
		CO5: Develop core to make sustainability as the	
-	Courses	Only tool for progress.	
/	Course	This course is an essential preparatory course for	
	Description	students to develop their ideas & perspectives to	
		development goals. The course uses relevant case	
		studios on material culture, business models & design	
		studies on material culture, busiless models & design	
		subject	
8	Outline syllahus	<u> </u>	0
			Achievement
	Unit 1	Sustainable development Goals	
		a) Understanding the materials and their	CO1. CO4
		consequences	
		b) Defining sustainable development-	CO1, CO4
		c) the vision of UNDP	CO1, CO4
	1	1 -	



Unit 2	Sustainable	e Businesses		
	a) Sustaina	CO2, CO4		
	b) Challeng	ges for sustainab	ility-	CO2, CO4
	c) Respons	sibility & opport	unity-	CO2, CO4
Unit 3	Design for	sustainability		
	a) What is	Sustainable Desi	ign	CO3, CO4
	b) Tools ar design	nd guiding aspe	cts towards sustainable	CO3, CO4
	c) Understa	anding Design w	hen sustainable	CO3, CO4
Unit 4	Roadmap t	o sustainability		
	a) Circular	CO3, CO4		
	b) changes with example	CO3, CO5		
	c) Collabor	CO3, CO5		
Unit 5	Case studie			
	a) Furnitur	CO3, CO4		
	b) Creative	sources workin	g with brands	CO3, CO4
	c) Synchroi	nization of partn	ers	CO3, CO5
Mode of examination	CA & End T	erm Jury		
Weightage	CA	MTE	ETE	
Distribution	30%	20%	50%	
Text book/s*	1. dow Busi <u>http</u> <u>3-31</u>	inload the book RE iness Model Innova is://link.springer.co 19-91971-3	START Sustainable ation by using this link: om/book/10.1007%2F978-	
Other	1. The	Brundtland report	rt, 1987	
References	2. McL desi publ 3. http fash stop			
	Unit 2 Unit 3 Unit 3 Unit 4 Unit 5 Unit 5 Mode of examination Weightage Distribution Text book/s* Other References	Unit 2Sustainable a) Sustaina b) Challeng c) ResponseUnit 3Design for a) What is b) Tools and design c) UnderstaUnit 4Roadmap to a) Circular b) changes with examp c) CollaborUnit 5Case studie a) Furnitur b) Creative c) SynchronMode of examinationCA 30%Weightage DistributionCA 30%Text book/s*1. dow Busi httpOther References2. McL design gubbleOther References2. McL design gubble3. http3. http5. Superior Gase gubble3. http5. Stop3. http3. http3. http5. Stop3. http3. http3. http5. Stop	Unit 2Sustainable Businessesa) Sustainable Businessesa) Sustainable Businessesb) Challenges for sustainablec) Responsibility & opportUnit 3Design for sustainabilitya) What is Sustainable Desib) Tools and guiding aspedesignc) Understanding Design wUnit 4Roadmap to sustainabilitya) Circular vs. Linear desigb) changes needed to moviewith examplesc) Collaboration vs. solo ruUnit 5Case studiesa) Furniture and home dectb) Creative sources workinc) Synchronization of partriMode ofCAexaminationWeightageCADistribution30%20%Text book/s*1. download the book RE Business Model Innovic https://link.springer.cd 3-319-91971-3Other1. The Brundtland report 2. McLennan, J. F. (2004). design: The future of ar publishing.3. https://i-d.vice.com/ fashion-is-going-to-cl stop-talking-about-su	Unit 2Sustainable Businessa) Sustainable Business model Theory- b) Challenges for sustainability- c) Responsibility & opportunity-Unit 3Design for sustainabilitya) What is Sustainable Design b) Tools and guiding aspects towards sustainable design c) Understanding Design when sustainableUnit 4Roadmap to sustainabilitya) Circular vs. Linear design process- b) changes needed to move from linear to circular with examples c) Collaboration vs. solo runs-Unit 5Case studiesb) Creative sources working with brands c) Synchronization of partnersMode of examinationCAWeightage DistributionCAMote of examinationCAMote of examinationCAMote of examinationCAMote of examinationCAMote of examinationCAMote of examinationCAMote of examinationCAMote of examinationCAMote of examinationCAMote of examinationCAMultichter Sitelbution30%20%50%Text book/s*1. download the book RESTART Sustainable Business Model Innovation by using this link: https://link.springer.com/book/10.1007%2F978- 3-319-91971-3Other References1. The Brundtland report, 1987 2. McLennan, J. F. (2004). The philosophy of sustainable design: The future of architecture. Ecotone publishing. 3. https://i-d.vice.com/en_us/article/wjwn5w/if- fashion-is-going-to-clean-up-its-act-we-need-to- stop-talking-about-sustainability

POs COs	P01	P02	PO3	P04	PO5	P06	P07	P08	60d	PSO1	PSO2	PSO3	PSO4
CO1	2	1	2	3	1	2	2	1	1	1	2	1	2

*	SHARDA
	UNIVERSITY Beyond Boundaries

CO2	2	2	1	3	1	2	2	1	2	1	3	1	3
CO3	1	2	3	1	2	3	1	2	1	1	2	1	2
CO4	2	2	3	1	1	2	3	1	3	2	3	1	3
CO5	1	2	3	1	2	3	1	2	1	3	2	-	1

1-Slight (Low) 2-Moderate (Medium) 3-Substantial (High)



Scho	ol: SAP	Batch :2020-24									
Prog	ram: B.DESIGN	Current Academic Year: 2020-21									
Bran	ch: INTERIOR	Semester: III									
DESI	GN										
1	Course Code	IDJ 303									
2	Course Title	Digital-II									
3	Credits	4									
4	Contact Hours (L-T-P)	0-2-2									
	Course Type	Compulsory.									
5	Course Objective	The objective of Course includes learning advanced Auto-cad a	e objective of Course includes learning advanced Auto-cad and Sketchup 3d.								
6	Course Outcomes	After completion of this course, student will able to: CO1. Demonstrate advanced skills using AutoCAD software and the peripherals. CO2. Demonstrate an ability to use a range of tools in AutoCAD and Sketchup. CO3. Using Sketchup for 3d modelling. CO4. Creatively solve visual problems and generate detail renderings. CO5. Learning to generate effective Presentation Drawing Using shotecher.									
7Course DescriptionThe course enables students to get a brief knowledge about the most wid used commands in DESIGN AND DRAFTING.											
8	Outline syllabus	<u> </u>	CO Mapping								
	Unit 1	AutoCAD Overview									
	A	Revising basic tools and commands.	CO1,CO2								
	В	Learning basic file exporting and saving.	CO2								
	С	Introduction to working Drawings.									
	Unit 2	Autocad 3D									
	А	Working with UCS .	CO2,CO1								
	В	Viewport and 3d Commands.	CO1,CO3								
	С	Rendering	CO3								
	Unit 3	Introduction to Sketch up									
	A	Getting familiar with Basic and Advanced toolbar.	CO1,CO4								
	В	Importing cad file for 3d.	CO4,CO2								
	С	Working with materials.	CO3								
	Unit 4	Advanced Commands and processes.									
	А	Generating sections and Elevations.	CO3								
	В	Working with scene settings and camera.	CO2,CO5								
	С	Material application and customization.	CO1,CO3,CO4								
	Unit 5	Rendering & Postproduction									
	A	Export settings and adjustments.	CO5								
	В	Setting viewports.	CO1,CO2,CO3								
	С	Using rendering styles.	CO5								



Mode of	Jury/Practical/	Viva		
examination				
Weightage	CA	MTE	ETE	
Distribution	60%	0%	40%	
Text book/s*	 AutoC. Hamad AUTO AUTO Sachid. AutoC. Heathe Master Edition (Autho 	AD 2020 Beginnin (Author) Product CAD EXERCISE CAD and Other F anand Jha AD 3D Modeling: r (Author) ing AutoCAD 20 by Brian C. 1 r)	ng and Intermediate by Munir details S: 400 Practice Drawings For eature-Based CAD Software By- Exercise Workbook by Steve 021 and AutoCAD LT 2021 2nd Benton (Author), George Omura	
Other References	AutoCAD 2021 (Author), Shawi	Instructor Studen na Lockhart (Auth	t Edition by James A. Leach or), Eric Tilleson (Author)	

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
COs													
CO1	2	1	2	2	2	1	1	1	1	1	1	2	2
CO2	3	1	1	2	1	1	2	1	1	1	1	2	3
CO3	1	2	3	1	1	2	3	1	1	2	3	1	2
CO4	2	1	2	2	1	1	1	2	3	1	1	2	2
CO5	2	1	1	2	3	3	2	1	1	2	3	1	2

1-Slight (Low) 2-Moderate (Medium) 3-Subtantial (High)





Sc	hool: SAP	Batch :2020-2024	
Pr	ogram: B.Des	Current Academic Year: 2020-21	
Br	anch:	Semester: III	
1	Course Code	IDJ 301	
2	Course Title	Interior Design Studio -II	
3	Credits	12	
4	Contact Hours	0-4-8	
	(L-P-S)		
	Course Status	Compulsory	
5	Course	 To be able to understand various design process 	
	Objective	• To expose students to different works of renowned	
		interior Designers and Interior Spaces	
		 To enable students to formally apply methods of design, 	
		spatial analysis and form generation to a small scale	
		project with constraints of site and context.	
6	Course	After completion of this course, student be will able to:	
	Outcomes	CO1 : utilize the methods of model making, drawings and	
		design presentations appropriately	
		CO2: understand the concepts of renowned Interior	
		Designers and identify various design processes, methods and	
		means deployed to achieve spatial organization.	
		CO3: apply spatial configuration to different type and scale of	
		projects	
		CO4: provide solutions for various space design problems	
		CO5: enhance the spatial arrangement of an indoor space	
		design with appropriate materials	
7	Course	The studio is designed to expose students to different works	
	Description	of Interior Designers and architects and introduce them to	
		methods of case studies. The studio would guide students to	
		formally understand and arrive at a design solution to a given	
		problem through architectural methods of model making,	
		drawings and design presentations.	
8	Outline syllabu	S	CO
			Achievement
	Unit 1	CASE STUDY	
		a) Exercises to understand space transformation and	CO1, CO2
		anthropometry	
		b) visual composition and spatial relations	
		c) Understanding interior elements and Materials	
		а.	CO1, CO2

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		beyong boundaries
Unit 2	DOCUMENTATION	
	b. Interpretation of design methods and concept.	CO1
	c. Drawings & Documents	
	d. Context manipulation	
Unit 3	ANALYSIS	
	Design Exercise to expose studio to:	CO1, CO3,
	e. Design process	CO5
	f. circulation	
	g. space relation	
Unit 4	DESIGN RESEPONSE	
	a) Formal application of methods learnt through the	CO1, CO3
	preparatory exercises.	
	b) Arriving at design solutions through physical models,	
	drawings and supportive document	
Unit 5	REVERSE ENGINEER A PROJECT	
	a) Study of renowned interior space though open models	
	b) Reverse design analysis and criticism Jury	
Weightage	CA MTE ETE	
Distribution	60% 0% 40%	
Text book/s*	 Operative Design- A catalogue of spatial Verbs, Di Mari Yoo The Fundamentals of Interior Design 2019 Edition by Simon Dodsworth, Stephen Anderson, Bloomsbury The Essential Interior Design Handbook (English, Paperback, Claxton Darryl) Author- Claxton Darryl Spatial Strategies for Interior Design By- Ian Higgins The Key of Interior Design (Illustration of Methods & Principles) Author- Nikita Mittal Architectural Graphics by Francis D. K. Ching 	
Other References		

С	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
CO1	2	1	2	2	1	2	1	1	1	1	1	2	2
CO2	3	1	1	2	1	1	2	1	3	1	2	3	-
CO3	1	2	3	1	3	1	3	1	1	2	1	1	2

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												S U	HAR	LSIT
CO4	3	1	1	2	1	1	2	1	3	1	2	3	-	
CO5	1	2	3	1	3	1	3	1	1	2	1	1	2	

1-Slight (Low) 2-Moderate (Medium) 3-Substantial

Prepared by :iGAP/Program Template/Course Template

Y





Scho	ol: SAP	Batch :2020-24									
Prog	ram: B.Design	Current Academic Year: 2020-21									
Brar	ch:Interior	Semester:III									
Desi	gn										
1	Course Code	IDJ 302									
2	Course Title	Material, Construction& Finishes -II									
3	Credits	4									
4	Contact	1-1-2									
	Hours										
	(L-T-P)										
	Course Type	Compulsory									
5	Course	Course is designed to familiarize students to work with ac	lvanced								
	Objective	materials which are used in the field of interior design qu	ite extensively.								
6	Course	After completion of this course, student will able to:									
	Outcomes	CO1-Understanding the nature of material, properties an	d behaviour								
		along with the practical applications and specifications									
		CO2: Make students aware of different sizes and types of	material								
		coming from the factories. Difference in the materials wit	h respect to								
		need and applications.	need and applications.								
		CO3: Understand the handling of materials like different t	types of								
		boards, laminates and introduced them with different ha	rdware's and								
		installations process									
		CO4: Understand and complications of flooring design an	d installation								
		CO5: Understand the installation procedures of various fa	alse ceiling								
-	Courses	designs	viale alevas								
/	Course	I his will include the applications of different mate	rials along								
	Description	with specifications and joinery used in the industr	y. IL WIII dISO								
		Interior design like colling, bardware and flooring	systems in								
			systems in								
8	Outline syllabu		CO Manning								
0	Unit 1	Introduction to various types of materials boards									
		laminates	01,002								
	1	Source of material, manufacturing process etc.									
	2	Understanding the physical properties, appearance, standard									
	-	dimensions available etc.									
	3	Process of fixing									
	Unit 2	Celling	CO1,CO2,								
		_	CO4								
	1	Various products and by-products of the material									
	2	Various finishes, textures and necessary hardware									



	3 Drawing of details and sections											reyone oo		
	Unit 3	3	Т	ypes o	f woo	d							CO2,CO	3,
	1		0	lassific	ation	hasad	on nro	nortic		hility c	atc		205	
	2			ifferen	t type	s of us		perite	.5, usu	onity t				
	3		5	neciali	zed te	chniau	ies and	1 deta	ils					
	Unit 4	1	Т	Types of hardware										
	1	•		Market research										
	2		N	Material board of different hard wares										
	3		F	Fixing of hard wares										
	Unit 5	5	F	inishes	;								CO1,CO	2,CO3
	1		Т	ypes o	f finisł	nes in i	nterio	rs					· · ·	
	2 Process of finishes													
	3		S	amples	s of dif	ferent	finish	es						
	Mode	e of	JI	ury										
	exam	inatio	n											
	Weigl	htage	age CA MTE ETE											
	Distri	bution	6	60% 0 40%										
	lext	JOOK/ S	lr K	• (• 7 • 7 • 7 • 7 • 7 • 7 • 7 • 7 • 7 • 7	Author The Inte Author The Inte Ipdated Xnow E Petailing ast (Au) erior De) erior De & revis Every Da g: Conce thor)	sign Ha sign Re sed: Eve ay BY: ept to C	indbook iference erything Chris C onstruc	a BY: Fi a & Spea g Interio drimley tion 1st	rida Rar cificatio r Desig (Author Editior	mstedt on Book ners Nee r) n BY: Da	d to vid		
	Other	-												
	Refer	ences												
	С	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
	CO1	2	1	2	1	1	1	1	2	1	1	1	2	2
	CO2	3	1	3	2	1	1	2	1		1	1	2	3
	CO3	3	-	3	1	1	1	1	1	1	1	1	1	2
	CO4	2	-	2	1	1	1	2	1		1	1	2	3
	CO5	3	-	3	1	1	1	1	1	1	1	1	1	2

1-Slight (Low)

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2-Moderate (Medium) 3-Substantial (High)

Prepared by :iGAP/Program Template/Course Template



IV Semester


School: SAP		Batch :2020-24						
Prog	ram: B.DESIGN	Current Academic Year: 2020-21						
Bran	ch: INTERIOR	Semester: IV						
DESI	GN							
1	Course Code	IDJ 403						
2	Course Title	Digital-III						
3	Credits	4						
4	Contact Hours (L-T-P)	0-2-2						
	Course Type	Compulsory.						
5	Course Objective	The objective of Course includes learning advanced Sketchup 3d.and AutoCAD						
6	Course	After completion of this course, student will able to:						
OutcomesCO1. Demonstrate advanced skills using Sketchup software and the peripherals.CO2. Demonstrate an ability to use a range of tools in Sketchup.CO3. Using Sketchup for 3d modelling .CO4. Creatively solve visual problems and generate detail renderings.CO5. Generate effective Presentation Drawing Using photoshop.								
7	Course Description	The course enables students to get a brief knowledge about the most widely used commands in 3D Modelling.						
8	Outline syllabus		CO Mapping					
	Unit 1	Sketchup Overview						
	A	Revising basic tools and commands.	CO1,CO2					
	В	Learning basic file exporting and saving.	CO2					
	C	Introduction to Large tool set.						
	Unit 2	Material application & Texturing.						
	A	Working with Bitmaps.	CO2,CO1					
	В	Creating new materials and their application	CO1,CO3					
	С	Rendering with textures.	CO3					
	Unit 3	Introduction to Plugins.						
	A	Getting familiar with Basic and Advanced plugins.	CO1,CO4					
	В	Working with parameters involved.	CO4,CO2					
	C	Effective application in Modelling .	CO3					
	Unit 4	Advanced Commands and processes.						
	A	Generating sections and Elevations.	CO3					
	В	Working with scene settings and camera.CO2,CO5						
	C	Material application using uv mapping.	CO3,CO4					
	Unit 5	Rendering & Postproduction						
	A	Introduction to Lumion.	CO5					
	В	Importing different 3d files and formats.	CO1,,CO3					



С	Using Library c	CO5		
Mode of examination	Jury/Practical/			
Weightage	CA	MTE	ETE	
Distribution	60%	0%	40%	
Text book/s*	Autodesk 3ds By ASCENT Publisher- SD Autodesk 3ds Edition by Prof. Sharr Technologies Kelly L. Murc Reference Gu By Kelly L. M	Max 2021 Fur C Publishers Max 2021: A n Tickoo Purdu (Author) lock's Autodes ide furdock		
Other				
References				

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
COs													
CO1	2	1	2	2	2	1	1	1	1	1	1	2	2
CO2	3	1	1	2	1	1	2	1	1	1	1	2	3
CO3	1	2	3	1	1	2	3	1	1	2	3	1	2
CO4	2	1	2	2	1	1	1	2	3	1	1	2	2
CO5	2	1	1	2	3	3	2	1	1	2	3	1	2



Scho	ol: SAP	Batch : 2020-2024	
Prog	ram: B.Des		
Bran	ch:Interior Design	Semester: IV	
1	Course Code	IDJ 401	
2	Course Title	Interior Design Studio-III	
3	Credits	11	
4	Contact Hours	0-3-8	
	(L-T-P)		
	Course Status	Compulsory	
5	Course Objective	 1-This course emphasize on developing concept design thinking and translate it into the three-dimensional composition of space and form with a system of formal Interior ordering. 2-The course cultivates design process tools such as diagramming, drawing, and model making through a series of design explorations including abstract ideation, physical embodiment, architectural composition, and precedent analysis exercises. 3-To learn about relevance of case study and site analysis. 	
		4-To analyse the nature of various activities in any given plan and enhance the optimum use as well as enhance the aesthetics of the given space.	
6	Course Outcomes	 After completion of this course, student will able to: CO1: analyse a particular architectural or interior space, reconstruct and redesign it. CO2: develop basic understanding of space dynamics with respect to anthropometric. CO3:develop an understanding of various tools, techniques and software for 2D drafting. CO4: develop the skills of understanding resolving and designing interior projects of the range 1000-3000 sft. CO5: understand various procedures and activities involved with the entire process of design and development 	
7	Course Description	Course contents deals with developing certain skill sets imperative to Basic Designing with aid of software's and emphasis on different key areas appropriate to that particular level of understanding. This is done through live studio projects of certain functionality in a particular area range conducive to the particular level of	



		understan	ding. At this level	the objectives and outcomes					
		are as det	ailed above.						
8	Outline syllabus								
	Unit 1	Introduction	n to the elements	of interiors	CO1,CO2				
	1	Basics of Int	erior Design						
	2	Ergonomics	& Anthropometry	ý					
	3	Introduction	n to a project						
	Unit 2	Research &	Research & Case study						
	1	Literature &	Case Study						
	2	Pre-design S	Study – Case study	y - Space study					
	3	Pre-design s	study – Literature	study ,Site Analysis					
	Unit 3	Concept De	velopment		CO1,CO2,CO3,CO4				
	1	Concept For	mulation and Ide	a Investigation					
	2	Preparation space.	of Design require	ements-Redesign of existing					
	3	Concept for	mulation ,Bubble	diagram and activity zoning					
	Unit 4	Design deve	lopment		CO1,CO2,CO3, CO5				
	1	Interior des	Interior design development						
	2	Developme							
	3	Plan and Ele	vation of the vari	ous components of Interior					
		and furnitur	e's						
	Unit 5	Design Pres	entation		CO2,CO3,CO4				
	1	Design Shee	ts presentation						
	2	Model maki	ng on appropriate	e scale					
	3	Final portfo	lio Submission						
	Mode of	Jury							
	examination								
	Weightage	CA	MTE	ETE					
	Distribution	60%	0%	40%					
		Order 3rd I TIME SAVER SPACE PLAN 2-Interior D Ope Di N • The Edit Blow • The (En)	Edition Edition STANDARDS FOF INING by Karl Rya esign Illustrated b erative Design- A Mari Yoo Fundamentals of tion by Simon Do omsbury Essential Interior glish, Paperback,	R INTERIOR DESIGN AND n Candinato by Francis DK Ching catalogue of spatial Verbs, Interior Design 2019 dsworth, Stephen Anderson , Design Handbook Claxton Darryl) Author-					



	Spatial Strategies for Interior Design By- Ian	
	Higgins	
	• The Key of Interior Design (Illustration of	
	Methods & Principles) Author- Nikita Mittal	
	• Architectural Graphics by Francis D. K. Ching	
	Architecture: Form, Space, & Order by Francis D. K. Ching	
Other		
References		

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
COs													
CO1	2	1	2	2	2	1	1	1	1	1	1	2	2
CO2	3	1	1	2	1	1	2	1	1	1	1	2	3
CO3	1	2	3	1	1	2	3	1	1	2	3	1	2
CO4	2	1	2	2	1	1	1	2	3	1	1	2	2
CO5	2	1	2	2	1	1	1	2	3	1	1	2	2

2-Moderate (Medium)

School: SAP	Batch : 2020-2024
Program: B.Design	Current Academic Year: 2021-2022



Branch: Interior		Semester: IV								
Desi	gn									
1	Course Code	IDJ 404								
2	Course Title	Building Services-II (Electrical & HVAC)								
3	Credits	3								
4	Contact Hours	(0-1-2)								
	(L-T-P)									
	Course Status	Compulsory								
5	Course	Understanding the relation between a good interior des	sign and interior							
	Objective	services.								
		• Understanding the basic aspects of building services,	which makes a							
		building habitable and function the way it has been bui	lt for.							
		Understanding the symbols and notifications used	in the sample							
		services drawings and understand the importance	of them while							
		overlaying the same in the architectural/ interior layou	t.							
6	Course	After completion of this course, student will able to:								
	Outcomes	CO1: understand any interior space (to be discussed in design	studio exercise)							
		with completeness of every aspect of its services.								
		CO2: make the space habitable considering the environment it	exists.							
		CO3: develop the practical understanding of all services compo	CO3: develop the practical understanding of all services components.							
		CO4: understand the coordination between Conceptual Design and Services								
		and learn to prepare the services drawings for the design studio exercises.								
		CO5: develop the practical understanding of electrical load, v	wiring, switches							
		etc.								
	-	CO6: understand the functional aspect of HVAC with AC load, o	ducting etc.							
/	Course	The course is meant for students to know the interior services v	which are							
	Description	1. Electrical system comprises of Load calculation, drawin	gs etc							
		2. Heating & Air conditioning.								
0	Qutling gullabus		CO Manning							
8		Flastrical	CO Mapping							
		Electrical	01,002							
	А	Power layout & technical aspect cable laying through walls,								
	D	Applysic of Wires and Eivitures related to the Design Studio								
	D	Analysis of whes and fixtures related to the Design Studio								
	C	Symbol identification and a sample drawing understanding								
	C	Prenaring the drawings for the Design Studio Problem								
	Unit 2	Lighting lavout	CO1 CO3							
	A	Reflected ceiling plan showing the lighting pattern.								
	В	Analysis of Wires and Fixtures related to the Design Studio								
		exercise.								
	С	Specification of different types of lights.								
	Unit 3	Heating & Air conditioning.	CO1, CO3							
	A	Types of AC and their mechanism	- ,							



				Degono doenderres					
В	Analysis of cos	t of heating and	l cooling loads and their						
	calculations, as	spects of design	ing a good system for different						
	type								
С	Symbol identif	Symbol identification and a sample drawing understanding,							
	Preparing the o	Preparing the drawings for the Design Studio Problem							
Unit 4	Ducting system	Ducting system							
А	Ducting design	Ducting design as/per Heat load calculation.							
В	Diffusers appli	Diffusers application.							
С	Symbol identif	ication and a sa	mple drawing understanding,						
	Preparing the o	drawings for the	e Design Studio Problem						
Unit 5	Reflected Ceili	CO1, CO3							
A	Relation betwe	Spr, sen lighting	inkler and diffuser AC plan	CO5, CO6					
В	Nomenclature	and specification	วท						
С	Detailed drawi	ng							
Mode of	Jury								
examination									
Weightage	CA	MTE	ETE						
Distribution	60%	0%	40%						
Text book/s*	Building Servic	es Handbook –	Fred hall and RozerGreeno						
	Butterworth H	einemann Publi	cation						
Other	Time Saver Sta	ndards for Inter	rior design						
References									
	Natio								
	nal Building Co	de of India 200	5						

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
COs													
CO1	3	1	2	2	2	1	1	1	1	1	1	2	2
CO2	3	1	1	1	1	-	2	1	1	1	1	2	2
CO3	2	2	3	-	1	2	3	1	1	2	3	1	3
CO4	2	-	2	1	1	1	1	2	-	1	1	2	2
CO5	1	1	2	2	1	1	1	2	2	1	1	2	3
CO6	3	2	-	1	2	3	-	2	2	3	3	-	2





Prepared by :iGAP/Program Template/Course Template



Scho	ool: SAP	Batch :2020-24							
Prog	ram: B.Design	Current Academic Year: 2020-21							
Brar	ch: Interior	Semester: IV							
Desi	gn								
1	Course Code	IDJ 405							
2	Course Title	Visual Merchandising							
3	Credits	3							
4	Contact	1-0-2	-0-2						
	Hours(L-T-P)								
	Course Type	Compulsory							
5	Course								
	Objective	1. Enable students to understand the various types, o	ost and						
		styling (dressing) of mannequins							
		2. Have a insight in fixture design ,the various types ,	modular						
		fixture and special fixtures for accessory display							
		3. Understand the significance and scope of window	display with						
		various setting and construction details							
		4. Insight to principals used for store layout.							
6	Course	fter completion of this course, student will able to:							
	Outcomes	CO1 Prepare visual merchandising scheme for a sto	ore in terms of						
		Mannequin Styling & 3D form							
		CO2Design Window Display							
		CO3Design the Store planning and Fixture Design f	or various						
		formats							
		CO4Prepare Product display and Plannogram							
		CO5Design External Façade ,and Exterior Signage's	i						
7	Course	This course enables students to understand the important	ce and						
	Description	techniques of Visual communication. Visual communicatio	on focuses on						
	-	communication through a visual aid and is described as th	e conveyance						
		of ideas and information in forms that can be read or look	ed upon.						
		includes: signs, typography, drawing, graphic							
		design, illustration, Industrial Design, Advertising, Animati	on colour and						
		electronic resources							
8	Outline syllabu	S	CO Mapping						
	Unit 1	Introduction to VM -Elements							
	А	Window Display - Introduction & importance	CO1,						
	В	Principles & types of Window Display							
	С	Window Creation Activity							
	Unit 2	Product Display & Plannogram							
	А	Principles Types of product display							
	В	Understanding a retail Plannogram	CO4						



С	Product displa	ay exercise								
Unit 3	Mannequin S	tyling & 3 D fo	rm	CO1						
А	Purpose ,Type	es and cost of r	mannequins							
В	Choosing the	Choosing the right Mannequin								
С	Dressing of m	Dressing of mannequins								
Unit 4	Store Plannin	Store Planning and External Facade& Signage								
А	Purpose and	orinciples of St	ore planning							
В	Store plannin	Store planning exercise								
С	Importance of	mportance of Signage and their types								
Unit 5	Fixture Desig	Fixture Design & Types								
А	Importance o	f Fixture Desig	n							
В	POP display ,	/M tool kit								
С	Modular Fixtu	res, special Fix	ctures for accessory display							
Mode of	Theory/Jury/F	Practical/Viva								
examination										
Weightage	CA	MTE	ETE							
Distribution	60%	0%	40%							
Text book/s*										
Other										
References										

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
COs													
CO1	3	3	1	2	1	2	3	1	2	2	3	2	3
CO2	1	-	3	3	1	2	-	2	2	3	3	1	2
CO3	3	2	2	2	-	2	3	1	2	2	2	3	1
CO4	3	2	2	3	1	2	3	1	2	2	3	1	3
CO5	1	2	2	-	3	2	2	1	2	3	3	3	1



S	chool: SAP	Batch : 2020-24	
Pr	ogram:	Current Academic Year: 2020	
В.	Design		
Br	anch: ID/IPD	Semester: IV	
1	Course Code	TIP 401	
2	Course Title	Trend and Forecasting	
3	Credits	2	
4	Contact	2-0-0	
	Hours		
	(L-T-P)		
	Course Status	Compulsory	
5	Course Objective	 To make the students aware of the trends and forecast, and its impact on the products development process. To provide basic fundamental knowledge about essential stages of research, as a vital part of any design process. To build awareness about the current Fashion trends & challenges in product development. 	
6	Course	After completion of this course, student will able to:	
7	Outcomes	 CO.1. understand various design philosophies and ideas behind various products and their design development stages. CO.2. learn the evolution of design in several products based on consumer preferences CO.3. analyze the product journey- from the making to display CO.4. conceptualize themes and boards based on fashion seasons CO.5. identify consumerism and product demand based on trend study CO.6. receive a holistic learning on picking up the color, styles, materials, and designs of the products based on discussed trend 	
7	Course	In this course, the students will understand the product	
	Description	development process based on the need of the hour and dynamic market, and will also learn about the factors influencing those changes.	
8	Outline syllabus	5	СО
			Achievement
	Unit 1	Understanding and finding Trend	CO1,CO2
	1	Identifying Trend	



2	Trend research: Gl	obal Context								
3	Trend research: In	dian Context								
Unit 2	Introduction to fo	recasting		CO2,CO3,CO4						
1	Forecasting eleme	nts:								
	Materials, Colors,	Aaterials, Colors, Prints and Graphics								
2	Forecasting source	precasting sources: Magazines and Agencies.								
3	Implementing Fore	ecasting:								
	Need, Advantages	and Limitations								
Unit 3	Trend Analysis and	d Data Collection		CO2,CO3,CO4						
1	Identifying Consur	ners								
2	Identifying Market									
3	Identification of Tr	end Data								
Unit 4	Trend Merchandis	sing		CO4,CO5,CO6						
1	Trend data analysi	s and applications								
2	Consumerism and	demand								
3	Product journey: N									
Unit 5	Interior Trend Cy	Interior Trend Cycle								
1	Understanding Zei	tgeist								
2	Seasons in Trends									
3	Visual Merchandis	ing Trends								
4	Trend cycle: Graph	IS								
Mode of	THEORY									
examination										
Weightage	CA	MTE	ETE							
Distribution	30%	20%	50%							
Text book/s*	• The Design o	f Everyday Things by don	norman							
	<u>Forecasting N</u>	Aethods And Application	<u>s</u> - <u>Spyros Makridakis</u> ,							
	Steven C Who	eelwright, <u>Rob J Hyndma</u>	<u>n</u> 							
	Forecasting: A Now Product	Applications And Method	Is- Francis X. Diebold							
	B. Kahn. Mar									
	New Product									
	<u>Kenneth B.</u>									
Other	The lean product pla	avbook by Dan Olsen								
References		,,								

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	<mark>PSO</mark> 1	<mark>PSO</mark> 2	<mark>PSO</mark> 3	<mark>PSO</mark> 4
COs													
CO1	3	1	1	2	3	3	1	1	3	2	1	1	3
CO2	3	3	2	3	1	-	2		-	1	2	-	2



												S 🥟 Beyo	nd Bound
CO3	3	2	1	1	2	3	1		3	2	2	-	2
CO4	3	3	1	1	3	2	2	-	1	1	-	-	1
CO5	2	2	2	2	1	3	1	1	3	2	1	1	3
CO6	2	3	1	-	3	3	1	2	3	-	2	2	3
CO6	3	2	-	2	3	-	1	1	3	3	1		

2-Moderate (Medium)



Scho	ool: SAP	Batch : 2020-2024								
Prog	ram: B.Design	Current Academic Year: 2020								
Bran	ich: IPD	Semester: V								
1	Course Code	JIT501								
2	Course Title	Design Innovation								
3	Credits	3								
4	Contact Hours (L-T-P)	0-1-2								
	Course Status	Compulsory								
5	Course Objective	1. To make students Understand the difference in								
		invention, Innovation and discovery.								
		2. To make students learn the art of Innovation in the								
		given environment and given material, spaces and								
		Organisation.								
		3. To make students Understand the Tools and Tips to								
		incorporate innovation through creative thinking and								
		brainstorming.								
		4. To make students learn the evolution of society and								
		study the innovation in human habitation, products								
		and experiences.								
6	Course	After completion of this course, student will able to:								
	Outcomes	CO.1. learn the difference between innovation and								
		creativity and how to utilise it While Designing								
		Interiors, products Or experience for the end								
		consumer								
		CO.2. learn Standard processes of developing and								
		funding new start-ups, what's the ideal								
		environment for the companies and how to start &								
		run in any given society.								
		CO.3. learn one can innovate with the materials and								
		resources at hand.								
		CO4. understand the change involved with innovation								
		and how to bridge the gap between various								
		players in any new innovation.								



			CO5: iden	tify and underst	and various advanced space	e				
			des	ign techniques a	and concepts.					
					•					
7	Course Description		The course about deve lowest envir Given envir also teache ecosystem.	ry It t						
8	Outline syllabus	5				CO Achievem ent				
	Unit 1			Innovation in T	ransit Systems around	CO1,CO3,				
				the world		CO4				
		1	History of t	transit system a	round the world					
		2	Innovation	and evolution i	n human transit					
		3	challenges	in transit syster	n and issues					
	Unit 2	Jnit 2 Innovations In materials for Human Experience								
		1	Innovation	in Materials Us	ed in Buildings and habitatio	on				
		2	social beha	viour and cultu	ral influences					
		3	Case Study	of various com	munities					
	Unit 3		Design inte	erventions and S	Social Aspect in Interactions	s CO2,CO3				
		1	Design inne	ovation in comn	nunication in communities					
		2	concept							
		3	Concept de	evelopment						
	Unit 4		Consumer	behaviour and	reflex actions in furniture	CO2,CO4				
		1	Prototypes	Using Foam &	Cardboard					
		2	Final Prese	ntation						
		3	Understan	ding innovation	in evolution furniture					
	Unit 5		Design inte	erventions and	possibilities for future	CO1,CO2				
		1	Evolution i	volution in human behaviour and reflexes						
		2	Design Inte	Design Interventions and concept for future						
		3	Prototypin	g and presentat	ion					
	Mode of examination		Jury/Practi	ury/Practical/Viva						
	Weightage		CA	MTF	FTF					
	Distribution		60%	0%	40%					
	Text book/s*		-	0,0						
L	1010 00010 3					1				

*	SHARDA	
	UNIVERSITY	
S 2	Beyond Boundaries	

Other	
References	

	-												
POs COs	P01	P02	PO3	P04	PO5	P06	P07	P08	60d	PSO1	PSO2	PSO3	PSO4
CO1	2	1	2	1	2	2	1	1	1	1	1	2	1
CO2	3	1	3	1	1	2	1	1	1	1	1	3	1
CO3	1	2	1	2	3	1	1	1	1	2	1	1	2
CO4	1	1	1	1	1	1	2	1	1	1	1	2	1
CO5	3	1	1	1	-	1	2	1	1	3	-	3	1

2-Moderate (Medium)





School: SAP		Batch :2020-24								
Prog	ram: B.DESIGN	Current Academic Year: 2020-21								
Bran DESI	ch: INTERIOR GN	Semester: V								
1	Course Code	IDJ 503								
2	Course Title	Digital-IV								
3	Credits	4								
4	Contact Hours (L-T-P)	-2-2								
	Course Type	Compulsory.								
5	Course Objective	The objective of Course includes learning advanced Presentatic	on techniques.							
6	Course Outcomes	 After completion of this course, student will able to: CO1. Learn image formatting and sheet composition. CO2. Demonstrate an ability to use a range of tools in Sketchup. CO3. Use photoshop for Layouting and sheet composition . CO4. Creatively solve visual problems and generate detail renderings. CO5. Generate effective Presentation Drawing Using abstaches 								
7	7 Course Description The course enables students to get a brief knowledge about the most widel used commands in 3D Modelling.									
8	Outline syllabus		CO Mapping							
	Unit 1	Photoshop Overview								
	A	Revising basic tools and commands.	CO1,CO2							
	В	Learning basic file exporting and saving.	CO2							
	C	Effective use of tools for designing and formatting.								
	Unit 2	2D Rendering and texturing.								
	А	Working with Bitmaps.	CO2,CO1							
	В	Creating new materials and their application	CO1,CO3							
	С	Rendering with textures.	CO3							
	Unit 3	Introduction to Brushes.								
	A	Getting familiar with Basic and Advanced Brushes.	CO1,CO4							
	В	Working with Advance features involved.	CO4,CO2							
	С	Working with layer and masking.	CO3							
	Unit 4	Advanced Commands and processes.								
	A	Generating sections and Elevations.	03							
	В	Working with scene settings and camera.	CO2,CO5							
	C	Material application using uv mapping.	CO3,CO4							
	Unit 5	Rendering & Postproduction								
	A	Using brushes and image adjustments	CO5							
	В	Working with color modes.	CO1,,CO3							
	С	Learning processes for exporting rendering.	CO5							



Mode of examination	Jury/Practical/							
Weightage	СА	MTE	ETE					
Distribution	60%	0%	40%					
Text book/s*	Autodesk 3ds By ASCENT Publisher- SD	Max 2021 Fur C Publishers	Communication Children 21 st					
	Edition by Prof. Sham Technologies	Autodesk 3ds Max 2021: A Comprehensive Guide, 21st Edition by Prof. Sham Tickoo Purdue Univ. (Author), CADCIM Technologies (Author)						
	Kelly L. Muro Reference Gu							
	By Kelly L. N	lurdock						
Other								
References								

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
COs													
CO1	2	1	2	2	2	1	1	1	1	1	1	2	2
CO2	3	1	1	2	1	1	2	1	1	1	1	2	3
CO3	1	2	3	1	1	2	3	1	1	2	3	1	2
CO4	2	1	2	2	1	1	1	2	3	1	1	2	2
CO5	2	1	1	2	3	3	2	1	1	2	3	1	2



V Semester



Scho	ool:	Batch :2020-24						
Pro	gram:	B.DesignCurrent Academic Year: 2022-23						
Brar	nch: Interior	Semester: V						
Des	ign /IPD							
1	Course Code	JIT502						
2	Course Title	Furniture Design						
3	Credits	4						
4	Contact	(0-2-2)						
	Hours							
	(L-T-P)							
	Course Type	Compulsory						
5	Course	1. Learn about all aspects of Furniture Design from brie	f history to the					
	Objective	various categories of furniture's, various manufactur	ring process involved					
		to adaptation of materials in different spaces.						
		2. The course aims at making the students absorb t	he elements and					
		principles in furniture design merchandising and	applying them in					
		their own designs.						
		3. To learn all the design process in context of furniture	es with the relevance					
		of each elements of						
		Design approach.						
		4. Develop the understanding of the significance of fore	ecasting and explore					
		new avenues in furniture design.						
6	Course	After completion of this course, student will able to:						
	Outcomes	CO1. Learn various lexicons used in furniture design which	ch distinguishes					
		materials, forms and function classifying various types of 1	furnitures.					
		CO3 Learn practical preference in a space when choosing	materials on the					
		basis of their behaviour.						
		CO4. Learn to design furniture while applying case studies	s and understanding					
		need of every human need.	-					
		CO5: understand the overall transformation of furniture of	design from					
		traditional designs to contemporary						
_								
7	Course	The course is intended for students to learn and prac	tise all the aspects					
	Description	integral in the making of furniture . They will develop theindepth						
		Understanding of function/utility of furniture in relat	ion with					
		form.materials and comfort.						
0	Outling cullety		CO Manning					
ð			CO wapping					
	Unit 1	Introduction						



				🛸 🥟 Beyond Boundaries		
А	Introduction of	of History of Fu	Irniture Design from	CO1, CO2		
	Ancient Egyp	tian to the pre	-independence impact of			
	Europeans on	india.				
В	Choose four	design movem	ents and design a furniture			
	piece from ea	ch era and wr	iting characteristic on each			
	sketch.					
С	Design Discus	sion on Functio	on, comfort and			
	anthropomet	rics for various	s categories of furnitures .			
Unit 2	Furniture se	gregations as	per space	CO1,CO2,CO3		
	utility/manu					
A	Furniture Des	ign Principles				
В	Classification	of furniture or	n the basis of	CO2,CO4, CO5		
	manufacturin	g, properities,	materials, etc.			
С	Design projec	t - To design f	urnitures and accessories			
	in a given sp	ace.				
Unit 3	Concept and	Material Pla	nning	CO3,CO4,		
А	Class Presenta	ation with initi	al design direction of			
	Furnitures and					
В	Class discussion	on on final drav	wings			
С	Final display					
Unit 4	Final design	CO1,CO4				
А	Virtual Mode					
В	Prototyping					
С	Material App	ropriateness.				
Unit 5	Documentat	ion		CO1,CO2,CO3,CO4		
А	Finalization of	of write up .				
В	Final Docume	ntation of the	e products chosen.			
С	Pre-presenta	tion of the ju	ry related to board to			
-	display furni	ture accessor	ies, jury discussion and			
	inference					
Mode of	interence.					
examination						
Weightage	CA	MTE	ETE			
Distribution	60%	0	40%			
Text book/s*	Francis D. K.	Ching, Archit	ecture Form, Space And			
	Order 3rd Edition					
Other						
References						
	1			1		

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
COs													
CO1	3	3	1	2	1	2	3	1	2	2	3	2	1



											💊 🥒 Веу	0 0 0 8 0 0	ndaries
CO2	1	3	3	3	1	2	-	2	2	3	3	1	1
CO3	3	2	2	2	-	2	3	1	2	2	2	3	2
CO4	3	2	2	3	1	2	3	1	2	2	3	1	1
CO5	3	2	2	3	2	2	3	2	2	-	2	3	2

2-Moderate (Medium)



School:		SAP Batch : 2020-2024	
Progra	am:	B.Design Current Academic Year: 2020-21	
Branc	h: Interior Design	Semester:V	
1	Course Code	IDJ 502	
2	Course Title	Material ,Construction & Finishes-IV	
3	Credits	4	
4	Contact Hours (L- T-P)	1-1-2	
	Course Type	Compulsory	
5	Course Objective Course	 1-To develop and transform design concepts into details tha constraints, functional requirements, and constructability. 2-To learn about the construction detailing of various comportants. 3- To develop the imaginative thinking and the application or resources to create interiors that are aesthetically pleasing, superior, and environmentallysound. 4- To develop a unique interior environment more thoughtfuction detail purpose. After completion of this course, student will able to: 	t meetthe onents of f technical functionally ully and witha
	Outcomes	CO1: Understand the importance of details in interior design CO2: Create detailed drawings for the fixing and application components i.e. doors, window, ceiling, flooring etc. CO3: Bridge the gap Between Conceptual and Detailed draw CO4: understand the interior spaces comprehensively by bal contributions of physical beauty and structural integrity in o Volume along with the necessary detailed drawings. CO5: apply appropriate material and finishes to match the u requirement	n. of various vings lancing the ne complete ser's
7	Course Description	The course is focusing on the basic understanding of constru- which is core of any design project. The students will learn a major/minor techniques (with help of developing drawings) and application of various materials together. The major det composed of Floor, Wall, Ceiling, Furniture, Furnishing, lightin	iction details, bout the used for fixing cailing areas ng etc.
8	Outline syllabu	S	CO Mapping
	Unit 1	Flooring	
	А	Fixing detail of Stone and create drawings for the same.	CO1, CO2
	В	Fixing detail of Tiles	
	С	Fixing details of Laminated, wooden etc.	



Unit 2	Ceiling/Paneling	
А	Detail of False ceiling, ie, Gypsum, tiles.	
В	Detail of Wooden paneling with laminated sheet.	CO2, CO5
С	Detail of Wooden paneling with veneer.	

	Unit 3	Walls/panelin	g		CO3					
	А	Detail of types	s of partition w	alls and drawings						
	В	Detail of Gyps	etail of Gypsum partition							
	С	Detail of alum	etail of aluminum partition							
	Unit 4	Furniture/doo	niture/door							
	А	Detail of basic	furniture,Bed,	table etc. and their Drawings						
	В	Detail of Ward	lrobe/storage							
	С	Detail of Woo	den door							
	Unit 5	Door/Window	1		CO4,CO5					
	А	Detail of types	s of door and th	neir Drawings						
	В	Details of type	es of Window							
	С	Detail of UPV	C window.							
	Mode of	Jury								
	examination									
	Weightage	CA	MTE	ETE						
	Distribution	60%	0	40%						
	Text book/s*	Interior D	Design Illustrated I	BY: Francis D. K. Ching (Author)						
		The Inter	ior Design Handb	ook BY: Frida Ramstedt (Author)						
		The Inter	ior Design Referen	nce & Specification Book updated &						
		revised: H	Everything Interior	r Designers Need to Know Every Day						
		BY: Chri	BY: Chris Grimley (Author)							
		Interior Detailing: Ballast (Author)	Iterior Detailing: Concept to Construction 1st Edition BY: David Kent							
	Othor									
	Deferences									
1	References				1					

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
COs													
CO1	3	3	1	2	1	2	З	1	2	2	3	2	3
CO2	1	-	3	3	1	2	-	2	2	3	3	1	2
CO3	3	2	2	2	-	2	3	1	2	2	2	3	3
CO4	3	2	2	3	1	2	3	1	2	2	3	1	2







Scho	ol: SAP	Batch : 2020-2024	
Prog	ram: B.Design	Current Academic Year: 2020-21	
Bran	ch:	Semester: V	
1	Course Code	IDJ 501	
2	Course Title	Interior Design studio IV	
3	Credits	10	
4	Contact Hours	(0-4-6)	
	(L-P-S)		
	Course Status	Compulsory	
5	Course Objective	The aim of the studio is to introduce students to	
		design of repetitive units/ Modular focusing on	
		horizontal spatial planning with focus on	
		interrelationship between spaces and their	
		respective hierarchy.	
		• To sensitise them to observing their	
		environment and incorporating the learning's	
		into their design	
		The objective is to focus on design evolution	
		• The objective is to focus of design evolution	
		with respect to passive design strategies and site	
		context.	
6	Course Outcomes	After completion of this course, student will able to: CO1: develop skills of drawing and representation	
		CO2: assimilate learning of graphics, construction,	
		structures and computers to apply to basic design.	
		CO3: explore creative processes and idea generation and	
		demonstrate critical evaluation of these processes in	
		COA: appraise how design can impact interact with and	
		improve environments	
		CO5: understand spaces with three-dimensional	
		visualization through the use of block models and	
		appropriate software's.	
7	Course Description	Looking at the immediate built environment and	
		understanding its fundamental components and their	
		impact on the surroundings. The studio deals with the	
		study of built form and its relationship to the site,	
		surroundings and climatic setting. Design proposals to	
		address sensitivity to climatic and physical settings. The	
		with built and open spaces. Exercises relating personal	
		experiences to behavioural peeds and translating them	
		into documented information that can be used as a basis	
		for design.	
		into documented information that can be used as a basis for design.	



		Introduc viz: the c	tion to other role client and the user	players in the Design process	
		,		-	
8	Outline syllabus	•			СО
		1			Achievement
	Unit 1	Minor Proj	ect		CO2 CO3
		a.	Introduction to N	Лinor project	
		b.	Form and materi	al based investigation	
		С.	Understanding s	patial aspects based on	
			activity, space, fo	orm and human scale.	
	Unit 2	Minor Proj	ect- finalization		
		a.	Pre design study	-Case study and functional	
			standards		
		D.	Concept formula	tion and idea investigation	
		C.	Final design pres	entation	
	Unit 3	Major Proj	ect- Conceptual		CO2 CO3CO1
		a.	Introduction to N	/lajor project	
		b.	Preparation of de	esign requirements, area	
			requirements ba	sed on standards and their	
			interrelation and	circulation patterns.	
			Site- 5000sft (ap	(xqv	
	Unit 4	Concept De	evelopment		CO1 CO3
					CO5
		a.	Concept Formula	ition, Bubble Diagram and	
			activity zoning.		
		b.	Design developm	nent- site development	
		С.	Design developm	ient- floor Plans	
	Unit 5	Finalisatior	1		
		a.	Design developm	nent-sections and elevations	
		b.	Model making or	n appropriate scale	
		C.	Final portfolio su	bmission	
	Mode of	Jury			
	examination	<u> </u>	NATE		
	vveigntage	CA 60%			
	Text book/s*	50%	U%	40%	
	TEAL DOOR/S	Ordor 2rd			
		Francis D K			
		ILLUSTRAT			
	Other References		(





POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
COs													
CO1	2	1	2	2	1	1	1	1	1	1	1	-	2
CO2	3	1	1	2	1	1	2	1	2	1	1	2	3
CO3	1	2	3	-	1	3	3	1	1	1	2	1	2
CO4	2	1	1	2	1	1	1	2	3	1	1	2	2
CO5	2	1	1	2	2	1	2	1	-	2	1	1	2



School: SAP		Batch : 2020-2024								
Program: B.Design		Current Academic Year: 2021-2022								
Branch:Interior		Semester: V								
Design										
1 Course Code		IDJ504								
2	Course Title	Services-III (Plumbing, Firefighting and Acoustics)								
3	Credits									
4	Contact	(0-1-2)								
	Hours									
	(L-T-P)									
	Course Status	Compulsory								
5	Course									
	Objective	 Understanding the need of Building Services. 								
		Introduction of various aspects of building interior services that helps								
		to interior more efficient such as acoustics, water supply, drainage,								
		firefighting etc.								
		 Understanding the basic aspects of building services, which makes a building babitable and function the way it has been built for 								
6	Course	The student will be able to								
0	Outcomes	CO1: Understand any interior project with completeness of every aspect of its								
	outcomes	services.								
		CO2 : Understand the technical coordination of water supply services (inlet-								
		Outlet, fire)								
		CO3: Develop the practical understanding of all services components.								
	CO5: Understand the acoustical material applications									
7	Courses	US: Understand the acoustical material applications.								
/	Course I ne course is meant for students to know the interior services which a									
	Description	4. Eiro fighting and cafety								
	4. File-lighting and safety									
0	Qutling cullabu		CO Manning							
0	Unit 1	S Water supply and plumbing								
		Sources of water, requirement and standards	01,002,003							
		Hot water supply, cold water supply. Bipes and pecessary								
		fittings and fixtures – material dimensions etc								
		Preparation of water supply layout plans								
	Unit 2	Drainage and sanitation	CO1 CO2 CO3							
		Basic terminology - Pipes, bends. valves. traps etc.								
		Material, dimensions and necessary fittings								
		Preparation of drainage layout plans								
	Unit 3	Fire fighting	CO1, CO2							
			201, 202							



				beyone boandaries					
	Basic termino								
	detectors								
	Firefighting st								
	Preparation o								
Unit 4	4 Acoustics								
	Basic terminology – reverberation, reflectance,								
	absorption et								
	Understandin	Understanding behavior of sound in different mediums							
	and spaces								
	Type of mate								
	etc								
Unit 5	Acoustical tre	CO1, CO5							
	Study of space								
	treatment –tł								
	Identifying va								
	acoustical issu								
	wings – plans elevations and								
	sections								
Mode of	Jury								
examination									
Weightage	CA	MTE	ETE						
Distribution	60%	0%	40%						
Text book/s*	Building Servic								
	Butterworth H								
Other	Time Saver Standards for Interior design								
References									

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
COs													
CO1	3	1	2	1	2	3	1	3	-	3	2	3	-
CO2	3	-	3	1	2	2	1	3	-	3	1	3	-
CO3	2	-	2	-	2	3	1	3	-	2	3	2	-
CO4	3	-	2	1	2	2	1	3	-	3	1	3	-
CO5	3	-	2	1	2	2	3	3	-	3	3	3	-

2-Moderate (Medium)





VI Semester


Scho	ool: SAP	Batch : 2020-2024								
Prog	gram: B.Design	Academic Year: 2020-2021								
Brar	nch:Interior	Semester: VI								
Desi	ign									
1	Course Code	IDJ 603								
2	Course Title	Estimation & Specifications								
3	Credits	3								
4	Contact	0-1-2								
	Hours									
	(L-T-P)									
	Course	Compulsory								
	Status									
5	Course	This course teaches students to do the estimation	of a interior design							
	Objective	project of a space which allows designers to establish	prices and budgets							
		that satisfy their clients. This course follows practical	l guidelines on how							
		to value the cost of designing commercial or resident	ial interiors							
6	Course	After completion of this course, student will able to:								
	Outcomes	CO1: understand any interior project with completenes	s of every aspect of							
		costing.								
		CO2 : understand about material specification, quantities	and estimation.							
		CO3: prepare estimates for major items of construction w	ork.							
		CO4: understand the different types of estimates.	ion avaiant							
7	Course	COS: prepare preliminary and detailed estimates for a des	agn project							
/	Description	calculating the cost at suitable rates to get the approximation	ate cost of the							
	Description	projet.That help in carryout project effectively.								
8	Outline syllabu	IS	CO Mapping							
	Unit 1	Estimates Introduction								
	A	Types of Estimates	CO1, CO2,CO4							
	В	Preliminary and details estimates.	, ,							
	С	Calculations of Quantities: Types methods for								
	-	calculating different items of construction.								
	Unit 2	Calculations of Quantities	CO1, CO3							
	A	Types methods for calculating different items of	,							
		construction.								
	В	Software tool for calculations								
	С	Market research								
	Unit 3	Specifications	CO1, CO3							
	А	Types of Specifications for different materials								
	В	Matearial, labour & combined cost techniges								
	С	Market research								
<u> </u>	Unit 4	Detailed Estimation	CO1, CO3, CO5							
	Α	GST Calculation	, _,							
	Unit 1 A B C Unit 2 A B C Unit 3 A B C Unit 3 A B C Unit 4 A	Estimates IntroductionTypes of EstimatesPreliminary and details estimates.Calculations of Quantities: Types methods for calculating different items of construction.Calculations of QuantitiesTypes methods for calculating different items of construction.Software tool for calculationsMarket researchSpecificationsTypes of Specifications for different materialsMatearial, labour & combined cost techniqesMarket researchSoft CalculationGST Calculation	CO1, CO2,CO4 CO1, CO3 CO1, CO3 CO1, CO3 CO1, CO3 CO1, CO3, CO5							

Prepared by :iGAP



В	Calculation of	of bill summar	γ							
С	Detailed Spe	cification								
Unit 5	Turnkey Pro	jects	CO1,CO2CO3,CO4							
А	Preparing of	Design Propo	sal							
В	Analysis of tl	he services an								
	preparation	of their estim								
	document po	locument portfolio.								
С	BOQ summa	ry								
Mode of	Jury									
examination										
Weightage	CA	MTE	ETE							
Distribution	60%	0%								
Text book/s*	Estimating a	Estimating and Consting in Civil Engineering								
	B.N. Dutta									
Other										
References										

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
COs													
CO1	3	1	2	1	2	3	1	1	3	3	2	3	2
CO2	-	3	3	1	2	-	2	2	-	3	1	2	1
CO3	2	2	2	-	2	3	1	2	3	2	3	2	3
CO4	3	3	1	2	-	2	2	-	1	1	2	1	2
CO5	1	3	1	2	-	2	2	-	1	-	-	2	2

2-Moderate (Medium)



School	l: SAP	Batch : 2020-2024									
Progra	m: B.Design	Current Academic Year: 2020-2021									
Branch	n:Interior Design	Semester: VI									
1	Course Code	IDJ 601									
2	Course Title	Interior Design Studio -V									
3	Credits	13									
4	Contact Hours	0-5-8									
	(L-T-P)										
	Course Status	Compulsory									
5	Course	1. Study Interior design through Research, Analysis, program	nming,								
	Objective	conceptualization and design of the Interior environment									
	-										
		2. Understand spatial organization, Building codes and Regu	lations in addition								
		to Building services.									
6	Course	After completion of this course, student will able to:									
	Outcomes	CO1: Understand and apply the standards applicable to Spatial pl	anning in a space.								
		CO2: understand conceptual, functional as well as aesthetical asp	ectes								
		CO3: Understanding various details and regulations involved	in Designing and								
		construction.									
		CO4: Detail Design for a particular use by making plan furniture, fixture and									
		equipment layouts and, prepare material, furniture, fixture and e	quipment								
		specifications.									
		CO5: prepare the layouts for necessary services involved in interio	or design								
7	Course	The course Enables to understand the fundamentals of special pla	anning, Building by								
	Description	laws, Presentation techniques and Incorporating Services as an in	tegral part of their								
		Design. It would help them to understand all the essential details and fundamentals									
		essential to generate an effective Design which also follows its functional aspects.									
8	Outline syllabus		CO Mapping								
	Unit 1	Space Planning and Design Fundamentals									
	А	General Overview	CO1, CO2								
	В	Functional Aspects									
	С	Aesthetic Aspects									
	Unit 2	Communication and Drafting Methods									
	A	Presentation Techniques									
	В	Renderings	CO1, CO3								
	С	Building Models									
	Unit 3	Building Codes and Standards	CO5								
	А	General Overview									
	В	Occupancy Requirements, Classifications and Loads									
	С	Test Ratings and Fire Resistant Materials and Finishes									
	Unit 4	Barrier Free Design	CO1, CO3								
	А	General Overview									
	В	Accessibility Guidelines									



С	Plumbing Fixtu	res and Public La	ivatories							
Unit 5	Specification W	Vriting		CO1, CO3						
А	Specification N	laterial Sources								
В	Types of Specif	ications								
С	Specification Fo	pecification Format and Organization								
Mode of	Jury	ıry								
examination										
Weightage	CA	A MTE ETE								
Distribution	60%	50% 0% 40%								
Text book/s*	TIME SAVER ST	ME SAVER STANDARDS FOR INTERIOR DESIGN AND SPACE								
	PLANNING by K	LANNING by Karl Ryan Candinato								
	2-Interior Desig	gn Illustrated by	Francis DK Ching							
	Operat	ive Design- A ca	talogue of spatial Verbs, Di Mari							
	Yoo									
	• The Fu	ndamentals of In	terior Design 2019 Edition by							
	Simon	Dodsworth. Ster	bhen Anderson . Bloomsbury							
	• The Es	sential Interior Γ	esign Handbook (English							
	Paperb	ack Clayton Da	rryl) Author, Clayton Darryl							
		Strate size for In	tarian Design Dec. Jon Hisping							
	• Spatial	Strategies for In	tenor Design By- Ian Higgins							
	• The Ke	ey of Interior Des	sign (Illustration of Methods &							
	Princip									
	Archite									
	Architecture: F	orm, Space, & O	order by Francis D. K. Ching							
Other										
References										

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
COs													
CO1	3	1	2	1	2	3	1	1	3	3	2	3	2
CO2	-	3	3	1	2	-	2	2	-	3	1	2	1
CO3	2	2	2	-	2	3	1	2	3	2	3	2	3
CO4	3	3	1	2	-	2	2	-	1	1	2	1	2
CO5	3	3	2	2	-	2	2	-	1	2	1	3	3

1-Slight (Low) 2-Moderate (Medium) 3-Substantial (High)



Scho	ool: SAP	Batch : 2020-2024									
Prog	ram: B.Design	Academic Year: 2020-21									
Brar	ch:Interior	Semester: VI									
Desi	gn										
1	Course Code	IDJ 604									
2	Course Title	Furniture Textile & Accessory									
3	Credits	3									
4	Contact	(1-0-2)									
	Hours										
	(L-T-P)										
	Course Status	Compulsory									
5	Course	1. This course has been introduced to make the in	nterior Design								
	Objective	students familiar of the textiles incorporated in Ho	me Decor and								
		furnishings.									
		2. To understand the properties of the various fabr	ics as per the								
		environment and climatic conditions in a given inte	rior snace								
		2 To loarn the possibilities of using textiles while of	ambining with								
		5. To learn the possibilities of using textiles while of	ununing with								
		anterent categories of furniture.									
		4. Introduce the sustainable textile materials.									
6	Course	After completion of this course, student will able to:									
	Outcomes	CO1: understand and classify various textile material on the basis of need of the									
		project.									
		co : understand about textile material, texture, color, durability ,absorption									
		properties and Haptic properties CO3: develop the practical understanding of textile material used in interior and									
		as upholstery.									
		CO4: incorporate textiles in various aspects of interior design	gn such as wall								
		finishes, ceiling design, flooring etc.									
		CO5: incorporate textiles for design and development of variou	s accessoriesfor								
	-	interior design project									
7	Course										
	Description										
8	Outline syllabu	S	CO Mapping								
		Textiles introduction	601								
	А	Theory of Textiles	CO1,								
	D	Cultural hadranound of Interior toutiles	02,004								
	D C	Classification of interior toutiles and their properties									
		Classification of interior textiles and their properties									
		Iviarket Research	<u> </u>								
	R	I extiles used in various activity domain of Interiors CO1, CO3									
	В	Brief understanding of the textile technology									
	L	Costing and pricing of diff textiles									



				🖜 🖉 beyono boundaries						
Unit 3		Textiles for U	pholstered fu	rniture & furniture						
		accessories								
А		Types of texti	ile materials fo	r Furniture						
В		Analysis of te	xtile Durability	r, Color fastness & its						
		integration								
С		Different type	es Upholstery (used for sofa making						
Unit 4		Accessory			CO1, CO3,CO5					
А		Use of fabric	of fabric in different accessories							
В		Concept for a	cept for any accessory design							
С		Prototype								
Unit 5		Upholstery pr	CO1,CO2							
			CO3,CO4							
А		Concept for a	ny sofa design							
В		Design develo	opment							
С		Prototype								
Mode o	f	Jury								
examina	ation									
Weighta	age	CA	MTE	ETE						
Distribu	ition	60%	0%	40%						
Text bo	ok/s*	Francis D.K. C	hing & Corky E	Binggeli - INTERIOR DESING	<u>ĵ</u>					
		ILLUSTRATED	(3rd Edition)							
Other										
Referen	ices									

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
COs													
CO1	3	1	2	1	2	3	1	1	3	3	2	3	2
CO2	-	3	3	1	2	-	2	2	-	3	1	2	1
CO3	2	2	2	-	2	3	1	2	3	2	3	2	3
CO4	2	2	2	-	2	3	1	2	3	1	2	2	2
CO5	3	-	3	1	2	3	-	2	3	-	2	2	3

2-Moderate (Medium)



Scho	ool: SAP	Batch : 2020-24							
Prog	ram: B.Design	B.Design Current Academic Year: 20	20-21						
Brar	ch: Interior	Semester: VI							
Desi	gn								
1	Course Code	IDT 601							
2	Course Title	Fitout Management							
3	Credits	2							
4	Contact	2-0-0							
	Hours								
	(L-T-P)								
	Course Type Compulsory								
5	Course Objective	1-Learn and understand tools and techniques for efficient	project						
	objective	management							
		2-This technique for live projects or Design studio projects	6						
6	Course	After completion of this course, student will able to:							
	Outcomes	CO1 work on a project from conception to completion.							
		CO2 Prepare scopes/specifications for fit out works and prepare	ation of PERT						
		Charts							
		CO3: understand and nature Final inspections and signons proc	edures.						
		COA Format procedures for conducting fit out approvals in mall	scenario and						
		Final Site handover							
		CO5: manage issues related to overall site management							
7	Course	This course focuses on Project management for interior fit	-outs.						
	Description	Fit out management is a growing area where specialized expertise							
		plays an important role. The course shall cover the various FM & PM							
		techniques of scheduling ,reporting ,making of PERT chart	s etc.						
8	Outline syllabu	IS S	CO Mapping						
	Unit 1	Study and Analysis of Fit out process and significance							
	А	Site visit of interior spaces with fitout in progress	CO1,						
	В	Preparing site reports							
	С	Snag list preparation							
	Unit 2	Making a PERT chart							
	А	Identification and chronological order of fit out activates							
	В	Identification of Long lead items	CO2						
	С	Preparation of Pert chart of a particular project							
	Unit 3	Fitout in mall scenario	CO3						
	A	Understanding Fit out process in mall scenario							
	В	Formats for Fitout approval process							



С	Formats for v	arious stages i	in Fitout approval as site						
	handover for	mat, site inspe	ections,						
Unit 4	Application o	f Fitout Mana	gement Tools and	CO4, CO5					
	techniques D	esign Project							
А	Identification	of design proj	ject and its analysis						
В	Preparing PEF	Preparing PERT chart							
С	Identification	dentification of Long Lead Items							
Unit 5	Handover Pro	landover Process							
А	Checklist and	Checklist and Snag lists w.r.t. to Interiors							
В	Checklist for V	/M /Signage a	nd handover to Operations						
С	Checklist and	Snag lists w.r.	t. to Services						
Mode of	Theory								
examination									
Weightage	CA	MTE	ETE						
Distribution	30%	30% 20% 100%							
Text book/s*									
Other									
References									

S

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
COs													
CO1	3	1	2	1	1	3	1	2	3	3	2	2	2
CO2	2	3	3	1	2	-	2	2	-	3	1	1	1
CO3	2	2	2	-	1	3	1	2	3	2	3	3	2
CO4	2	2	3	1	2	3	1	2	3	3	1	3	1
CO5	3	2	3	-	2	3	2	2	3	3	-	3	3

1-Slight (Low)

2-Moderate (Medium)



School: SAP		Batch : 2020-24					
Prog	gram:	Current Academic Year	: 2020 - 21				
M.D	esign						
Brar	nch:Common	Semester: VI					
1	Course Code	IDJ601					
2	Course Title	Research Methodology					
3	Credits	4					
4	Contact	0-2-2					
	Hours						
	(L-T-P)						
-	Course Type	Compulsory					
5	Course Objective	The focus of this course is not on mastery of statistics but on the abilit to use research in the Design environment.					
6	Course Outcomes	urseAfter completion of this course, student will able to:tcomesCO1:Develop a hypothesis, a research problem and related questionsCO2: Frame the problem with the correct research methodologyCO3:Collect accurate data to addresses the research problemCO4: Use the data to make decisionsCO5: Create a effective research proposalsCO6: analyse the data collected from various sources.					
7	Course Description	To develop an understanding among students about important concepts of research design, data collecti interpretative analysis, and final report presentatior	t an overview of the ion, statistical and n.				
8	Outline syllabu	IS	CO Mapping				
	Unit 1	INTRODUCTION	CO1, CO2				
	А	Foundations of Research: Meaning, Objectives, Motivation, Utility					
	В	Concept of theory, empiricism, deductive and inductive theory					
	C	Characteristics of scientific method – Understanding the language of research – Concept, Construct, Definition, Variable. Research Process					
	Unit 2	PROBLEM IDENTIFICATION AND HYPOTHESIS GENERATION	CO1, CO3				
	А	Problem Identification & Formulation and Measurement Issues					
	В	Hypothesis – Qualities of a good Hypothesis –Null Hypothesis & Alternative Hypothesis.					
	С	Hypothesis Testing – Logic & Importance					



Unit 3	RESEARCH D	ESIGN		CO2,CO3,CO4,CO5,			
А	Research De	sign: Concept	t and Importance in				
	Research – F	eatures of a	good research design				
В	Exploratory						
	uses, Descrip						
	and uses.						
	Independent	t & Depender	nt variables.				
С	Qualitative a	and Quantitat	tive Research: Qualitative				
	research –	Quantitative	research – Concept of				
	measuremer						
	and Mergin	g the two app	proaches.				
Unit 4	SAMPLING			CO2,CO3			
				CO4,CO5,CO6			
А	Measureme	nt: Concept o	of measurement– what is				
	measured? F	Problems in m	easurement in research –				
	Validity and	Reliability an	d Levels of measurement				
	– Nominal, C	Ordinal, Interv	val, Ratio.				
В	Sampling: Co						
	Size, Non Re	sponse. Char	acteristics of a good				
	sample. Prob	sample. Probability Sample – Simple Random					
	Sample, Syst	ematic Samp	le, Stratified Random				
	Sample & M	ulti-stage san	npling				
С	Determining	size of the sa	ample – Practical				
	consideratio	ns in samplin	g and sample size				
Unit 5	DATA ANALY	SIS AND INTE	ERPRITATION	CO3,CO4,			
				CO5,CO6			
А	Data Analysi	s: Data Prepa	ration – Univariate				
	analysis (free	quency tables	s, bar charts, pie charts,				
	percentages						
В	Bivariate Ana	alysis – Cross	tabulations and Chi-				
	square test i	ncluding test	ing hypothesis of				
	association.						
С	Interpretatio	on of Data and	d Report Writing –				
	Layout of a F	Research Pape	er, Ethical issues related				
	to publishinរួ						
	Effective rep						
Mode of	Jury						
examination							
Weightage	CA						
Distribution							
Text book/s*	1.Research N	1.Research Methodology – C.R.Kothari					



		🛸 🖝 beyona boundaries
	2. Business Research Methods – Donald Cooper &	
	Pamela Schindler, TMGH, 9th edition.	
	3. Business Research Methods – Alan Bryman&	
	Emma Bell, Oxford University Press.	
Other		
References		

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
COs													
CO1	2	3	-	3	-	2	2	-	2	3	2	3	3
CO2	3	-	3	-	2	2	1	-	3	2	3	2	2
CO3	2	3	-	3	-	2	2	1	-	3	2	-	2
CO4	1	2	3	-	2	2	1	-	3	2	3	2	2
CO5	3	2	2	-	2	2	1	-	2	-	2	2	1
CO6	-	2	2	1	-	2	2	1	-	2	2	3	-

1-Slight (Low) 2-Moderate (Medium) 3-Substantial (High)



School: SAP		Batch : 2020-2024						
Prog	ram: B.Design	Academic Year: 2021-2022						
Bran	ch:Interior	Semester: VI						
Desi	gn							
1	Course Code	IDJ 602						
2	Course Title	Futuristic Interiors						
3	Credits	3						
4	Contact Hours (I -T-P)	(0-1-2))						
	Course Status	Compulsory						
5	Course	Inderstanding Euturistic Interior designs decors technique						
5	Objective	planning and latest Furniture in different spaces.	acs, space					
		 To know about innovative and upcoming materials and Fir 	nishes					
		• Categorizing interior and furniture designs on the basis of	its utility. on-					
		going and upcoming trends, nature of space like, residenti commercial, hospitality, etc.	al, outdoor,					
		 Innovative forms and advanced interior design schemes 						
6	Course Outcomes Course Description	 After completion of this course, student will able to: CO1. Understand of latest and innovative global Interior design trends CO2. Visual practice of the space utilization, innovative forms incorporating high-tech components of design CO3: The application of latest trends and advanced techniques CO4: Understand of contemporary materials for furniture designs. CO5: understand of comparative analysis of new materials and fittings. CO6: Understand of contemporary fittings for Bathrooms and Modular kitchens. The course intends to impart knowledge about global and futuristic trends i interior design, awareness of latest and high-tech finishes, design compone 						
		appearances.						
8	Outline syllabus		CO Mapping					
	Unit 1	Study of various trends in Interiors towards innovation						
	A	Research and survey of advanced and high-tech materials	CO1, CO2,CO3					
	В	Various vocabularies in the study of Interiors						
	С	Visual Illustration and case studies of global interior design						
		projects						
	Unit 2	Implication of material						
	A	Material behaviour and their influence in interior	CO3, CO4					
	В	Combination of materials						
	С	Innovative and high-tech Finishes						
	Unit 3	Insinuation of advanced machinery and fabrication techniques						
	A	Innovative techniques for development of design components						

Bachelor of Design- Interior Design



				Beyond Boundaries			
В	Advanced finis	hes and their fa	brication process				
Unit 4	Design Project	I		CO1, CO4,CO5			
А	Conceptualizat						
В	Prototyping of	Prototyping of design components					
С	Precision in ma	aterial					
Unit 5	Final Documer	CO4,CO5,CO6					
А	Finalization of	write up.					
В	Final Documen	tation of the pr	oducts chosen.				
С	Pre-preparatio	n of the jury rel	ated to board to display				
	furniture acces	sories, jury disc	ussion and inference.				
Mode of	Jury						
examination							
Weightage	CA	MTE	ETE				
Distribution	60%	0%	40%				
Text book/s*	TIME SAVER ST PLANNING by F 2-Interior Desig • Operat Mari Y • The Fu Simon • The Es Paperb • Spatial • The Ko Princip • Architecture: E	ANDARDS FOR (arl Ryan Candin gn Illustrated by ive Design- A c (oo) undamentals of I Dodsworth, Ste esential Interior (ack, Claxton Da Strategies for I ey of Interior De oles) Author- Ni ectural Graphics	INTERIOR DESIGN AND SPACE nato v Francis DK Ching atalogue of spatial Verbs, Di Interior Design 2019 Edition by ophen Anderson , Bloomsbury Design Handbook (English, arryl) Author- Claxton Darryl nterior Design By- Ian Higgins esign (Illustration of Methods & kita Mittal s by Francis D. K. Ching Order by Francis D. K. Ching				
Other	Architecture: F	form, Space, &	Order by Francis D. K. Ching				
References							
2. 2. 2. 0000				1			

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
COs													
CO1	2	3	-	3	-	2	2	-	2	3	2	3	3
CO2	3	3	1	-	2	2	1	-	3	2	3	2	2
CO3	2	3	-	1	-	2	2	1	-	3	2	-	2
CO4	3	2	1	-	2	2	1	-	3	2	3	2	2
CO5	3	2	2	1	-	2	-	2	2	1	2	2	1
CO6	3	2	2	1	-	2	2	1	-	2	2	3	-



1-Slight (Low) 2-Moderate (Medium) 3-Substantial (High



VII Semester



Program:B.DesignCurrent Academic Year: 2020-21Branch: InteriorSemester:VIIDesignInterior1Course CodeIDJ 7022Course TitleHeritage Interiors3Credits44Contact0-2-2Hours(LT R)
Branch: Interior Semester:VII Design 1 1 Course Code IDJ 702 2 Course Title Heritage Interiors 3 Credits 4 4 Contact 0-2-2 Hours (LT D)
Design I 1 Course Code IDJ 702 2 Course Title Heritage Interiors 3 Credits 4 4 Contact 0-2-2 Hours (LT D)
1 Course Code IDJ 702 2 Course Title Heritage Interiors 3 Credits 4 4 Contact 0-2-2 Hours (LT D)
2 Course Title Heritage Interiors 3 Credits 4 4 Contact 0-2-2 Hours (LT D)
3 Credits 4 4 Contact 0-2-2 Hours (LT D)
4 Contact 0-2-2 Hours
Hours
(L-1-7)
Course Type Compulsory
5 Course The main objective of this course is to understand and learn the
Objective importance of heritage value of particular space/building by Adaptive
Reuse to develop meaningful space and commercial performance of
built assets.
6 Course After completion of this course, student will able to:
Outcomes CO1: Understand the value of legacy designs
CO2: Create drawing for the fixing and application of various techniques
used in restoration and refurbishment of project.
CO3: Produce the survey and documentation process to carry out
project with keeping the heritage value intact.
CO4: understand the interior spaces comprehensively by balancing the
contributions of physical beauty and structural integrity in one
complete volume.
COS: understand the details of traditional design components,
Indicidis etc. 7 Course 1 This is to enable students to understand the basis terminologies used
Description Lin the adaptive rouse a develop meaningful space
2 Students understand about design process involve in refurbishing a
nroject
3-To understand the process of documentation to carry out the process
of adaptively reusing historic buildings.
8 Outline syllabus CO Mapping
Unit 1 Introduction
A Introduction to Heritage Interiors CO1, CO2
B Site visit and making form and material based
investigation
C Understanding spatial aspects based on activity, space,
form and human scale.
Unit 2 Documentation/Drawing
A Case study presentation 1 st stage

Prepared by :iGAP



				S 2	Beyond Boundaries			
	В	Case study pr	esentation 2r	nd stage	CO2			
	С	Final site drav	vings with de	tails and phtographs				
	Unit 3	Conecept/De	velopment		CO3			
	А	Preparation c	Preparation of design requirements, area requirements					
		based on star	dards and th	eir interrelation and				
		circulation pa	tterns.					
	В	Concept form						
	С	Final concept						
	Unit 4	Design Devel	opment		CO4, CO5			
	А	All floor plans	;					
	В	Detailed plan						
	С							
	Unit 5	Finalisation	CO 5					
	А	Design develo	opment- secti	ons and elevations				
	В	Model makin	g on appropri	ate scale				
	С	Final portfolio	submission					
	Mode of	Jury						
	examination							
	Weightage	CA	MTE	ETE				
	Distribution	60%	0	40%				
	Text book/s*	TIME SAVER ST	ANDARDS FOR	R INTERIOR DESIGN AND SPACE				
		PLANNING by						
		2-Interior Desi	gn Illustrated b	by Francis DK Ching				
	Other							
	References							

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
COs													
CO1	3	3	1	2	1	2	3	1	2	2	3	2	1
CO2	1	-	3	3	1	2	-	2	2	3	3	1	2
CO3	3	2	2	2	-	2	3	1	-	2	2	3	1
CO4	3	2	2	3	1	2	3	1	2	2	3	1	1
CO5	-	2	1	2	-	2	3	1	2	-	3	1	-

2-Moderate (Medium)



School: SAP		Batch : 2020-2024					
Progra	m: B.Design	Current Academic Year: 2020-2021					
Branch	n:Interior Design	Semester: VII					
1	Course Code	IDJ 701					
2	Course Title	Interior Design Studio -VI					
3	Credits	10					
4	Contact Hours	(0-2-8)					
	(L-T-P)						
	Course Status	Compulsory					
5	Course	1. To understand the develop a conceptual project for brand	ding a project ie				
	Objective	Chain projects -Café, Restaurants, Big retails stores etc.					
		 Understand spatial organization, multiple brands and the industry 	ir unfitness in the				
6	Course	After completion of this course, student will able to:					
	Outcomes	CO1: Understand and apply the standards applicable to Spatial pla	anning in a space.				
		CO2: Understand various aspects of designing such as Functiona	ality and Aesthetics				
		and create brand identity by property examines the several brand	ls.				
		CO3: Understanding various details and regulations involved	in Designing and				
		CONSTRUCTION.	ivturo and				
		co4: Detail Design for a particular use by making plan furniture, f	ixture and				
		equipment layouts and, prepare material, furniture, fixture and equipment					
		Specifications					
		details of various components					
7	Course	The course Enables to understand the fundamentals of special pla	anning, Building by				
	Description	laws, Presentation techniques and Incorporating Services as an in	tegral part of their				
	·	Design. It would help them to understand all the essential details	and fundamentals				
		essential to generate an effective Design which also follows its fu	nctional aspects.				
8	Outline syllabus		CO Mapping				
	Unit 1	Space Planning and Design Fundamentals					
	А	General Overview	CO1, CO2				
	В	Functional Aspects					
	С	Aesthetic Aspects					
	Unit 2	Developing brands					
	A	Presentation Techniques					
	В	Renderings	CO1, CO3, CO5				
	С	Building Models					
	Unit 3	Building Codes and Standards					
	A	General Overview					
	В	Occupancy Requirements, Classifications and Loads					
	С	Test Ratings and Fire Resistant Materials and Finishes					
	Unit 4	Barrier Free Design	CO1, CO3				
	A	General Overview					
	В	Accessibility Guidelines					



С	Plumbing Fixtu	res and Public La	vatories					
Unit 5	Specification W	Vriting		CO1, CO3				
А								
В	Types of Specif	ypes of Specifications						
С	Specification Fo	ormat and Organ	ization					
Mode of	Jury							
examination								
Weightage	CA	MTE	ETE					
Distribution	60%	0%	40%					
Text book/s*	 Operati Yoo The Fu Simon The Es Paperbail Spatial The Ke Princip Archite 	ive Design- A ca ndamentals of In Dodsworth, Step sential Interior D ack, Claxton Dar Strategies for In ey of Interior Des les) Author- Nik ectural Graphics orm, Space, & O	talogue of spatial Verbs, Di Mari aterior Design 2019 Edition by ohen Anderson , Bloomsbury Design Handbook (English, rryl) Author- Claxton Darryl terior Design By- Ian Higgins sign (Illustration of Methods & ita Mittal by Francis D. K. Ching order by Francis D. K. Ching					
Other References	TIME S SPACE PLANNIN 2-Interior Desig	AVER STANDARE NG by Karl Ryan gn Illustrated by	DS FOR INTERIOR DESIGN AND Candinato Francis DK Ching					

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
COs													
CO1	3	1	2	1	2	3	1	1	3	3	2	3	2
CO2	-	3	3	1	2	-	2	2	-	3	1	2	1
CO3	2	2	2	-	2	3	1	2	3	2	3	2	3
CO4	3	3	1	2	-	2	2	-	1	1	2	1	2
CO5	3	-	1	-	-	2	2	-	1	1	-	1	3

1-Slight (Low) 2-Moderate (Medium) 3-Substantial (High)



Scho	ool: SAP	Batch : 2020-24
Prog	gram:	Current Academic Year: 2020-21
B. D	esign	
Brar	nch: Common	Semester: VII
1	Course Code	JIP710
2	Course Title	Dissertation
3	Credits	6
4	Contact	0-2-4
	Hours	
	(L-T-P)	
	Course Type	Compulsory
5	Course Objective	 The need of this supplementary subject is to make the students to do the research work lingering about the Practices, technology, Traits and works of the interior designers practicing India and abroad. To stimulate art appreciation and development of aesthetic sense.
		 To introduce vernacular art and craft forms.
		 To introduce a sense of exploration, research and
		documentation.
6	Course Outcomes	After completion of this course, student will able to: CO1: Develop a hypothesis, a research problem and related questions CO2: Frame the problem with the correct research methodology CO3: Collect accurate data to addresses the research problem CO4: Use the data to make decisions CO5: Create an effective research proposals CO6: Evaluate the issues of lighting in a particular space.
7	Course	Students have the flexibility to choose from a wide range of topics that
	Description	 may be historic or contemporary. The Topics to be taken will be from the following Field:- Particular Art / Craft form belonging to a specific region / period. School of thought in India/ abroad. The effect of artwork in the interior of any real Project. Any Art Movement and its effects on interior design of then era. Effect of any new design and its interior in any old campus (i.e. a new coffee house in Sharda campus) Viability study of any new technology on interiors (i.e. naturalistic lighting for user wellbeing)



		Analysis of different interior styles/ theme or	n a single Project
		(i.e. Fast Casual, Family Style, Fine Dining, Ca	fé or Bistro, Fast
		Food, Food Truck, Restaurant Buffet, Pop-Up	Restaurant styles/
		design themes and analysis of the overall fina	al look of the
		restaurant)	
		Research works about any practicing interior	designer's life,
		works and philosophy.	-
		Research about the relation of the different p	performing art
		forms and their relations/ effects on interior	design (i.e.
		Choreography and interior design; using perf	ormance
		terminology to describe interior experience.)	
8	Outline svllabu	IS	CO Mapping
	Unit 1	INTRODUCTION	CO1, CO2
	A	Foundations of Dissertation: Meaning, Objectives,	
		Motivation, Utility	
	В	Need of the Dissertation	
	С	Characteristics of scientific method for	
		dissertation– Understanding the language of	
		dissertation research – Concept, Construct,	
		Definition, Variable. Research Process	
	Unit 2	PROBLEM IDENTIFICATION AND HYPOTHESIS	CO1, CO3
		GENERATION	
	А	Problem Identification & Formulation and Issues	
	В	Study identification or Hypothesis	
	С	Study/ Hypothesis Testing – Logic & Importance	
	Unit 3	APPROVAL OF THE DISSERTATION TOPIC	CO2,CO3,CO4,CO5,
	А	Identification of the area of study.	
	В	Studying and data collection of various aspects of	
		the dissertation study.	
	С	Collected data analysis for the sake of dissertation	
		topic approval	
	Unit 4	FRAMING THE DISSERTATION/ PREPARATION OF	CO2,CO3
		REPORT	CO4,CO5,CO6
	A	Framing the Dissertation Chapters	
	В	Identifying the chapters of study	
	С	Study the different styles of Report Writing – APA	
		Style, Chicago Style etc.	
		Referencing and bibliography	
			602.604
	Unit 5		
		DISSERTATION CONCLUSION	05,006



-											
	А	Finalization of	of Data Analy	sis: Data Preparation –							
		for putting t	hese in the di	ssertation report							
	В	Bivariate Ana	alysis – Cross	tabulations and Chi-							
		square test i	ncluding testi	ing hypothesis of							
		dissertation.									
	С	Interpretatio	on of hypothe								
		through Effe	ctive report v								
	Mode of	Viva voce	Viva voce								
	examination										
	Weightage	СА	MTE	ETE							
	Distribution	60%	-	40%							
	Text book/s*	1. Research	Methodology	– C.R.Kothari							
		2. Business F	Research Met	hods – Donald Cooper &							
		Pamela Schii	ndler, TMGH,	9th edition.							
		3. Business F									
		Emma Bell, (Oxford Univer								
	Other										
	References										

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
COs													
CO1	2	3	-	3	-	2	2	-	2	3	2	3	3
CO2	3	-	3	-	2	2	1	-	3	2	3	2	2
CO3	2	3	-	3	-	2	2	1	-	3	2	-	2
CO4	1	2	3	-	2	2	1	-	3	2	3	2	2
CO5	3	2	2	-	2	2	1	-	2	-	2	2	1
CO6	-	2	2	1	-	2	2	1	-	2	2	3	-

2-Moderate (Medium)



Scho	ool: SAP	Batch : 2020-2024							
Prog	gram:	Current Academic Year: 2020							
B.DE	SIGN								
Brar	nch: INTERIOR	Semester: VII							
1	Course Code	IDT 701							
2	Course Title	Professional Practice for Interior Design							
3	Credits	2							
4	Contact	2-0-0							
	Hours								
	(L-T-P)								
	Course Type	Compulsory							
5	Course	 Learning about various aspects of professional con 	duct, duties						
	Objective	and responsibilities and legal rights and procedure	s of the						
		Interior Design profession.							
		Professional practices like interior design needs a g	good bunch of						
		advance knowledge of Design, Materials, Techniqu	es as well as						
		representational skills and market strategies as per	r current						
6		market scenario.							
6 Course After completion of this course, student will able to:									
	Outcomes	co1. Understand Role & Responsibilities of Various Interior design							
		Associations and Authorized Bodies in India and Abroad							
		Associations and Authonized Bodies in India and Abroad.							
		Mothods involved in Professional Practice	tives, and						
		CO3 Understand Interior Design practices.	in and its						
		office organization							
		CO4. Learn Scale of professional fees, mode of payment, professional							
		conduct and ethics documenting it in the form of reports.							
		CO5. Understand deliverables of Interior Design Consultancy, Project							
		Management Consultancy, Turn-key and Contractor ship organization.							
			0						
7	Course	The course enables students to develop undestanding whi	ich they can						
	Description	enable in professional practices. It will also help them to develop a brief							
		understanding towards profession and market scenerios.							
8	Outline syllabu	S	CO Mapping						
	Unit 1	INTRODUCTION							
	А	Role of Professional Associations	CO1						
	В	Professional conduct, ethics & regulation of the Interior CO1							
		Design Profession							
	С	ADI, ASID, IDS	CO1						
	Unit 2	Professional Documents							



				beyond boundaries					
А	Introduction t	o Tenders and	l Contracts	CO2					
В	Preparatio	on,Inviting and	Opening ofTender	CO2					
	Documen	ts							
С	Designers Rec	commendatior	ns: Q`uality, Time and Cost	CO2					
Unit 3	Use and impl	Use and implementations							
А	Interior D	CO3							
В	Interior de	esigner as a Va	lluator	CO3					
С	Evaluating	g an existing co	omplex	CO3					
Unit 4	Compliances								
А	Introducti	on to All kind	of Taxes	CO4					
В	GST, Servi	се Тах		CO4					
С	Income Ta	ax, Professiona	l Tax	CO4					
Unit 5	Composition	& Imagery							
А	Design Co	nsultancy: Res	ponsibilities & Professional	CO5					
	Charges								
В	Project M	anagement Co	onsultancy: Responsibilities &	CO5					
	Professior	nal Charges							
С	Turn-key Solu	tion Consultar	ncy: Responsibilities &	CO5					
	Professional C	Charges							
Mode of	Theory								
examination		,							
Weightage	CA	MTE	ETE						
Distribution	30%	20%	100%						
Text book/s*									
Other									
References									

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
COs													
CO1	2	1	2	2	1	3	1	1	2	1	1	2	2
CO2	3	1	1	2	1	1	2	1	1	2	1	2	3
CO3	1	2	3	1	2	1	3	1	1	1	3	1	2
CO4	2	1	1	2	1	2	1	2	3	1	1	2	2
CO5	2	1	1	2	2	1	2	1	1	2	2	1	2

1-Slight (Low) 2-Moderate (Medium)



Scho	ool: SAP	Batch : 2020-24	
Prog	ram: B.Design	Current Academic Year: 2019-20	
Brar	ich: IPD	Semester: VII	
1	Course Code	JIP711	
2	Course Title	PORTFOLIO	
3	Credits	3	
4	Contact Hours	3(0-1-2)	
	(L-T-P)		
	Course Status	Compulsory	
5	Course Objective	The subject aims to develop contemporary portfolio	
		practices and enables students to create portfolios	
		that serve as both evolving collections of creative	
		solutions to design problems and evidence of their	
		abilities to visually relay messages. It teaches to how	
		to create not just a collection of design work but a	
		unique marketing tool for a successful design career.	
6	Course Outcomes	After completion of this course, student will able to:	
		CO1: understand the methods to present their	
		designs, skill sets, and creativity	
		CO2: focus on both Logical and Creative Design	
		Solutions	
		CO3: develop a Portfolio including entire concept	
		and final design	
		CO4: Familiarize with different Layouts , and other	
		methods of presentation in detail as per the Industry	
		standards	
		CO5: present the work in a systematic, sequential	
-		and logical manner.	
/	Course Description	This course will introduce the students with various	
		techniques of presenting their works from concept	
		to Finished Products.	
8	Outline syllabus		СО
			Achievement
	Unit 1	The Portfolio : Introduction	
		1a.Understanding the meaning and Need of Portfolio	
		Development	
		1b.The Design Sketch: Exploring the History of Style	
		1c.Collection of works done in previous years	CO1
	Unit 2	Organizing and Content Development	CO1,CO2
		2a.Building up a Profile/Resume based on your skill	
		and current market trends	
		2b.Curation of Works and creating Storage Bank to	
		support the Portfolio development	



	2c.The Des	ign Journal to w	ell keep the works of the						
	past and su	upport Portfolio	Development						
Unit 3	Understan	ding the Marke	t/Customer	CO2					
	3a. The nee	ed of developing	g a portfolio as per the						
	customer c	hoices							
	3b. Unders	tanding the ide	ntity and the related need						
	of the com	pany							
	3c. Analyzi	3c. Analyzing the classified products							
Unit 4	Technical [Drawings and Fi	nishes	CO3,CO4, CO5					
	4a. Present	4a. Presentation Boards and Design Concepts &							
	Solutions	Solutions							
	4b.Compili	4b.Compiling the raw concepts and exploration							
	4c. Creatin	g Flat Sketches a	and Specs						
Unit 5	Presentation	on & Layouts							
	Layouting	of portfolio and	also in Digital format for	CO4					
	devices								
	5b.Underst	anding Platforn	ns to showcase works						
	5c.The Por	tfolio Projects							
Mode of									
examination									
Weight age	CA	MTE	ETE						
Distribution	60%	0%	40%						
Text book/s*									
Other	1.								
References									

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
COs													
CO1	2	1	2	2	1	1	2	1	3	2	1	2	2
CO2	3	1	1	2	3	-	2	2	1	1	2	2	3
CO3	3	2	3	1	1	3	3	1	1	3	2	1	2
CO4	2	2	1	2	1	1	1	2	3	1	2	2	2
CO5	-	-	1	-	1	1	1	3	1	1	-	1	2

2-Moderate (Medium)3-Substantial (High)





		SH SH	ARDA
Prog	gram: B.Design	Current Academic Year: 2020	VERSITY
Brar	nch: IPD	Semester:VII	
1	Course Code	TIP701	
2	Course Title	Intellectual Property Rights	
3	Credits	3	
4	Contact Hours (L-T-P)	3-0-0	
	Course Status	Compulsory	
5	Course Objective	 Introducing important aspects of intellectual property rights to students who will pay a key role in the creation and development of creative industrial projects. Spread patent information, patent laws in India and overseas, and details of registration. Publicizing information about copy rights and their associated rights and aspects of registration. Propagating data on trademarks and elements with registration. Collate technical understanding on design, regional acknowledgement, new design protection and ways of registration. Latest trends in IPR and Government measures to promote IPR. 	
6	Course Outcomes	After completion of this course, student will able to: CO.1. Understand the basic Concept of Intellectual Property Right CO2: Criteria for obtaining patent & elements of patentability (Novelty, Inventive steps, Utility) CO3: Copyright Registration methods & Nature of Copyright (Sentence construction, Creative work) CO4: Concept of trademark (Various types of tags, brand names, badges, signature, logo, product mark, recognition tags) CO5: Industrial Application (Non patentable subjects, Eligibility to patent). CO6: Process of patenting and acts involved (sanctions & Penalties Copyright procedure).	
7	Course Description	This program covers the legal strategy relevant to intellectual property and innovation for early stage Design	



			project. The from invent and product funding. The struct intellectual developme quantifiable will clearly substantive trade see advertisem aims to def is used to p	e development tion and early ev ct creation, ac ture for evalu property an nt and impler business plan. y provide a e law, that incluc cret, contract ent, incorporat ine and examine rotect and creat	cycle of the Design start-ups raluation, through incorporation cross production and massive nating the legal strategy of nd innovation behind the nentation of a successful & Via this approach, this program summary of multiple areas le patent, copyright, trademark, t, competition, marketing, ion and capital. This program e the technical information that te open standards.			
8	Outline syllabus	5		CO Achievem ent				
	Unit 1		Introductio	Introduction to IPR				
		1	Copyrights	Copyrights , patents , ID rights				
		2	Differences	Differences and similarities				
		3	Application					
	Unit 2		Understand	ding Design pro	tection	CO2		
		1	IPR famous	cases and conf	icts			
		2	To write th	e cases technica	lly			
		3	Design Righ	nts				
	Unit 3		Understand	Understanding Trademarks				
		1	Relevance	of trademarks				
		2	Usage and	its limitations				
		3	Presentatio	ons and Discussi	ons			
	Unit 4		Famous cas	ses and suites		CO1,CO2		
		1	Yamaha an	d TVS IPR Case				
		2	Apple and S	Apple and Samsung case				
		3	Compariso	Comparison and discussion				
	Unit 5		Possibilitie	CO4, CO5,CO6				
		1	Patenting p					
		2	Filing in IPR					
		3	Formalities					
	Mode of		Theory					
	examination				1			
	Weightage		CA	MTE	ETE			
	Distribution		30%	20%	50%			



Text book/s*	-	
Other		
References		

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
COs													
CO1	1	1	2	2	1	3	1	1	2	1	-	2	2
CO2	3	1	-	-	1	1	2	1	1	-	-	2	3
CO3	1	2	3	1	2	-	3	-	-	1	1	1	2
CO4	2	1	1	2	1	-	1	2	3	1	1	2	2
CO5	1	2	3	1	3	-	1	-	3	-	-	1	3
CO6	3	2	2	1	-	2	2	3	-	3	2	2	1

2-Moderate (Medium)



VIII Semester



School: SAP		Batch : 2020-2024							
Program:		Current Academic Year: 2020							
B.DESIGN									
Brar	nch: Interior	Semester: VIII							
Desi	ign								
1	Course Code	IDJ 801							
2	Course Title	nterior Design Project							
3	Credits	16							
4	Contact	0-4-12							
	Hours								
	(L-T-P)								
	Course Type	Compulsory							
5	Course	To provides student the opportunity to propose and	manage a faculty						
	Objective	approved self-initiated design project with appropria	te focus, inquiry,						
		documentation, execution and presentation							
6	Course	After completion of this course, student will able to:							
	Outcomes	CO1. Get an in-depth understanding of conceptualizat	tion and						
		presentation.							
		CO2. Learn a comprehensive understanding of developing design and							
		whole design process involves.							
		CO3. Learn research methods, innovation, code com	pliance						
		CO4. Understand the complexity and coordination betwe	en Concept & Final						
		presentation.	nocoscon convisos						
		8. preparation of estimates atc	Thecessary services						
7	Course	Students in this course advance their design skills to	meet the challenge						
/	Description	of a complex project. Selecting both client and project students							
	Description	complete an in-denth precedent study code and building analysis user							
		assessment, programming, conceptualization and presentation							
8	Outline syllabu		CO Manning						
-	Unit 1	Design Brief	CO1.CO2						
	A	Introduction to the project along with preparation							
		of its requirements and related components, user							
		preferences, user profile							
	В	Preparation of requirements in terms of spaces.							
	_	area calculation, basic and essential features							
	С	Identification of the need of the project, its							
		benefits and expected outcomes for laving a better							
		foundation of forthcoming projects of similar							
		nature							
	Unit 2	Research/Case study/Site analysis	CO1,CO2						



А	Investigation	of the topic-re	elated information,					
	technical ter	minology, guid	elines, learning from					
	the past tren	ds and forecas	ting the futuristic					
	approach							
В	Study of exis							
	shortcoming	s, potentials, a	rea programs etc. For					
	formation of	a more sound	itinerary for the new					
	project							
С	Examining th	e assigned site	e conditions, its					
	surroundings							
	conditions, a	rea, profile, te	rrain, constraints (if					
	any) etc. to c	arve out a pot	ential design strategy					
Unit 3	Conceptual o	design		CO1,CO2,CO3				
А	Spatial plann	ing and zoning	for a better					
	understandir	ng of inter-con	nection of spaces					
В	Working out	the functional	aspects, circulation,					
	overall flow o							
	the connecte							
С	Figurative pla	anning showin	g basic components o	f				
	design and p	reliminary spe	cifications.					
Unit 4	Design Deve	lopment		CO1,CO2,CO3,CO4				
Α	Detailed plar							
	material with	n dimensions						
В	Plans of vario	ous services su	ch electrical, plumbin	g,				
	RCPs, lighting	g design, HVAC	Cetc.					
С	Estimation of	f the project.						
Unit 5	Unit 5 Final presentation							
А	Presentation							
	complete wit	th relevant tex	tures, hatch, line					
	weights, dim	ensions and no	omenclature					
В	Three dimen	sional views of	f spaces and well-					
	rendered ele	vations, sectio	ns and other relevant	•				
	drawings.	drawings.						
С	Three-dimen	sional model,	physical or virtual,					
	showing over	rall flow explai	ning entire design					
	scheme in de	etail						
Mode of	Jury							
examination		•						
		MTE	ETE					
Weightage	CA	IVIIL						
Weightage Distribution	60%	0%	40%					
 Weightage Distribution Text book/s*	60% Francis D.K. (0% Ching & Corky	40% Binggeli - INTERIOR					



	Time saver standereds.	
Other References	TIME SAVER STANDARDS FOR INTERIOR DESIGN AND SPACE PLANNING by Karl Ryan Candinato 2-Interior Design Illustrated by Francis DK Ching	

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
COs													
CO1	2	1	2	2	1	1	2	1	3	2	1	2	2
CO2	3	1	1	2	3	-	2	2	1	1	2	2	3
CO3	3	2	3	1	1	3	3	1	1	3	2	1	2
CO4	2	2	1	2	1	1	1	2	3	1	2	2	2
CO5	3	1	2	3	3	2	2	2	1	1	2	2	3

2-Moderate (Medium)



Scho	ool: SAP	Batch : 20	020-24					
Prog	ram: B.Design	Current A	Academic Year: 2	2020-21				
Branch: Interior Design		Semester	: VIII					
desi	gn							
1	Course Code	IDJ 802						
2	Course Title	Professio	nal Training					
3	Credits	10 (NGPA	N)					
4	Contact Hours (L-T-P)	ntact Hours 0-2-8 T-P)						
	Course Status	Compulso	ory					
5	Course O	1. To get	an industry and	l market exposure.				
	matbjective	2. To bec	come industry o	riented and learn to work				
		under pe	er pressure of c	leadline and quality work.3.				
		3. Develo	op the entrepre	neur skills				
6	Course Outcomes	After com CO1: fill t so becom CO2 : Thin CO3: beco	After completion of this course, student will able to: CO1: fill the gap between concept and final product, so become professional CO2 : Think out of the box and match the timelines CO3: become sensible and learn to manage their					
		time and						
		CO4 : be a						
7	Course Description							
<i>'</i>		training f						
		semester	semester. At the end, students are required to					
		submit ar						
		portfolio.	portfolio.					
8	Outline syllabus		СО					
	Unit 1	Internship	CO1, CO2,					
	Unit 2	Internship			CO3, CO4,			
	Unit 3	Internship	CO5					
	Unit 4	Internship	nternship					
	Unit 5	Internship						
	Mode of Jury/Practical/Viva							
	examination	amination						
	Weightage	CA	MTE	ETE				
	Distribution	60%	0%	40%				
	Text book/s*	-						
	Other							
	References							

B.Des – Interior Design


POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
COs													
CO1	2	1	2	2	1	1	2	1	3	2	1	2	2
CO2	3	1	1	2	3	-	2	2	1	1	2	2	3
CO3	1	2	3	1	1	3	3	1	1	3	2	1	2
CO4	2	2	1	2	1	1	1	2	3	1	2	2	2
CO5	-	2	-	1	-	3	1	-	3	-	-	2	3

1-Slight (Low) 2-Moderate (Medium) 3-Substantial







Annexure X

Program and Course Structure

School of Architecture and Planning Bachelor of Design SAP0201

(Specialization in Industrial & Product Design) Batch 2020-2024

1





SHARDA UNIVERSITY



School of Architecture and Planning/SAP

Program / Branch/Specialization: BACHELOR OF DESIGN/Fashion Design

Semester/Term.: 1: COMMON FOUNDATION

Session: 2020-2021

S. No.	Paper Id	Subject Code	Subjects		Teaching Load			Core/Electi ve- Requisite,C o-Requisite	1.CC,2- AECC,3- SEC,4- DSE
	_			L	т	Ρ			
JURY SU	BJECTS		-		-				
1	11180	BDZ138	Basic of Design	0	2	4	6	Core	сс
2	11179	BDZ137	Free hand Drawing	0	2	8	10	Core	сс
3	11181	BDZ139	Introduction to Digital design & presentation	0	1	2	3	Co- requisite	SEC
4	12042	CCU302	Community Connect	0	2	0	2	Co Requisite	DSE
5			VAC (1 course of 30hrs duration to be conducted once in an academic year- semester optional)				NC	VAC	
THEORY	SUBJECTS	1							
1	16254	ARP101	Communicative English-I	1	0	2	2	Pre requisite	AECC
2	11182	BDZ140	History 1- History of Art-I	2	0	0	2	Core	СС
			Total				25		



	TERM II: IPD										
S. No.	Paper Id	Subject Code	Subjects	L	т	Ρ	Credits				
JURY SUBJECTS											
1		BDC101	History of art- 2	2	0	0	2	Core	сс		
2		ARP102	Communicative English II	1	0	2	3				
3		BDC 102	Environmental science	2	0	0	2	C0 requisite	AECC		
4		BDP105	IPD studio-I	0	2	4	6				
5		BDP104	Model making &prototype	1	1	4	6				
6		BDP102	Development of product forms & processes	1	1	3	5				
THEOR	Y SUBJECT	rs									
1	11428	BDC102	Environmental Science	2	0	0	2				
2	11427	BDC101	History 2- History of Art-II	2	0	0	2	Core	сс		
			Total				25				



TERM III											
S. No.		Pa pe r Id	Subject Code	Subjects	L	т	Р	Credits			
JURY S	SUBJEC	CTS									
1		11 50 3	PDJ301	IPD Studio-II	0	4	8	12	Core	сс	
2 50 PDJ 5		PDJ302	Industrial Design in market place		0	2	3	Core	сс		
3											
4		11 50 7	PDJ304	Digital-II	1	1	2	4	Pre requisite	AECC	
5 50 PDJ305 6		PDJ305	Design Semantics	1	0	2	3	Core	сс		
6				OPE				2			
THEOF	RY SUB	BJECT	S								
1			TIP301	History of Design	2	0	0	2			
			TIP302	Sustainable Design Practices	2	0	0	2	Core	сс	
				Total				29			
TERM	IV	1		1				1	1		
S. No.		Pa pe r Id	Subject Code	Subjects	L	т	Ρ	Credits			
	JURY	SUBJ	ECTS								
2	1160)8 I	PDJ401	IPD Studio -III	0	4	8	12	Core	CC	
3	1160)5	PDJ402	Layout Drawings and Display Techniques	0	1	2	3	Core	сс	
4	1160)7	PDJ403	Digital - III	0	2	2	4	Pre requisite	AECC	
5	1160)6 I	PDJ404	Materials & Processes - I	0	1	2	3			
6	1160	04	PDJ405	Research Story Telling & narratives	1	1	1	3			
				OPE				2			
				VAC							
T	HEOR	/ SUE	BJECTS								

								s,	SHAR	DA SITY
	11609	TI	IP401	Trends & Forecasting	2	0	0	2	a eyo no o o o	
				Total				29		
TERM	<u>v</u>		- • •		1					
S. No.	Pape Id	er	Subject Code	Subjects	L	Т	Р	Credits		
	JURY SU	JBJE	CTS							
1			PDJ501	IPD Studio -IV	0	4	8	12	Core	CC
2			PDJ502	Design, Media & Technology	0	1	2	3	Core	сс
3			PDJ503	Digital - IV	0	1	2	3		AECC
4			JIT502	Furniture design	1	0	2	3	Pre requisite	SEC
5			PDJ505	Materials & Processes - II	0	1	2	3		
								2		DSE
			JIT501	Design Innovation	0	1	2	3		
Т	HEORY	SUB	JECTS							
				Total				28		
TERM	VI				1			1	[
S. No.	F F r	Pa De Id	Subject Code	Subjects	L	т	Ρ	Credits		
	JURY SU	BJE	СТЅ							
			PDJ601	Applied ergonomics & sensory awareness	0	1	2	3		SEC
			PDJ602	Product Brand & Identity	0	1	2	3		
			PDJ603	Applied ergonomics & Awareness	0	1	2	3		
			PDJ604	IPD Studio -V	0	4	8	12	Core	CC
			PDJ605	Manufacturing & Assembly	1	1	1	3	Core	SEC
			JIT610	Research & methodology	0	2	2	4		
			PDJ607	Digital - V	1	1	2	4	Pre requisite	SEC
				DSE				2		DSE
T	HEORY S	UBJ	IECTS							

							s,	SHAR UNIVER	DA SITY
			Total				29		
TERM VII	ł								
S. No.	Pa pe r Id	Subject Code	Subject	L	т	Р	Credits		
JUR	Y SUBJE	CTS							
		PDJ701	Indian Arts & Crafts in Design Industry	0	1	2	3		DSE
		PDJ702	IPD Studio -VI	0	6	12	18	Core	CC
		JIP711	Portfolio	0	1	2	3		SEC
		PDJ704	Digital - VI	0	1	2	3		AECC
		JIP710	Dissertation	0	2	4	6		
THEO	RY SUB	JECTS							
		TIP701	Intellectual property rights	2	0	0	2	Core	
			Total				28		
TERM VIII									
S. No.	Pa pe r Id	Subject Code	Subjects	L	т	Ρ	Credits		
JUR	Y SUBJE	CTS							
		PDJ801	Graduation Project	0	4	12	16	Core	CC
		PDJ802	Internship (May-July)	2	2	6	10	NGPA	
		Not Generated	VAC(30 hrs course once in a year)					NC	
							16		

^[1] CC: Core Course, AECC: Ability Enhancement Compulsory
 Courses, SEC: Skill Enhancement Courses, DSE: Discipline Specific
 SE
 Courses



School: SAP

Batch : 2020-2024

SEMESTER III



Scho	ool: SAP	Batch : 2020-24						
Prog	gram:	Current Academic Year: 2021						
B.D	ESIGN							
Brar	nch: ID/IPD	Semester: III						
1	Course Code	TIP 301						
2	Course Title	History of Design						
3	Credits	2						
4	Contact	2-0-0						
	Hours							
	(L-T-P)							
	Course Type	Compulsory						
5	Course	This course has been made to enable the learner to	study people's					
	Objective	interaction with objects as well explore social science	techniques to					
		enable the learner to develop understanding so that i	t has practical,					
		aesthetic or playful uses.						
		To develop an understanding of key ethical, critical, tec	hnical and					
		theoretical debates in the area of product and furniture	e design.					
6 Course After the completion of this course, student will be able to:								
	Outcomes CO1-Understand and identify socio-cultural relationship of history and							
		design						
		CO2-Understand and know the evolution of furniture a	and products in					
		various periods.						
		CO3-Learn and apply basic research methods.						
		CO4 Understand design as a responsive medium havin	g reflections of					
		historical and cultural influences						
		CO5-Employ various digital, visual and verbal skills to co	mmunicate and					
		present ideas.						
		CO6-Demonstrate ability for self-initiated learning and	work in team.					
	C							
/	Course	The module introduces the learner to some o	of the critically					
	Description	changed bioterical and contemporary design						
		snaped historical and contemporary design.	developing an					
		engages with the key design ideologies,	developing an					
		analysis academic writing questioning and deb	ndiysis, critical					
		analysis, academic writing, questioning and deb	ale.					
8	Outline svllabu	 S	CO Mapping					
-	Unit 1	Furniture & Product: Till Renaissance	CO2, CO1					
	Α	Ancient civilizations and necessity	- ,					
	В	Housing and lifestyle						
	С	Design for everyday						

*	SHARDA
	UNIVERSITY Beyond Boundaries

Unit 2	Furniture & F	Product: Till m	id 19 th Century	CO2				
А	Baroque & dr	amatical light	S					
В	Rococo & Asy	vmmetry						
С	Traditional &	Fraditional & detailed woodwork						
Unit 3	Relating theo	Relating theory and practice						
А	Teamwork							
В	Mentoring &	execution						
С	Presentation							
Unit 4	Ornate to sin	nplification an	d back	CO3,CO4,				
А	Motifs in Art	Nouveau						
В	Simplicity & N	Mass production	on of Bauhaus					
C	Zigzag Art De							
U U								
Unit 5	Removing lay	ers of exagge	ration	CO4,CO5,CO6				
Unit 5 A	Removing lay	/ers of exagge Bohemian	ration	CO4,CO5,CO6				
Unit 5 A B	Removing lay Carefree Connectir	vers of exagge Bohemian ng nature in O	ration rganic	CO4,CO5,CO6				
Unit 5 A B C	Removing lay Carefree Connectir Minimalism a	vers of exagge Bohemian ng nature in O Ind bare essent	ration rganic :ials	CO4,CO5,CO6				
Unit 5 A B C Mode of examination	Removing lay Carefree Connectir Minimalism a Theory/Jury/	Jers of exagge Bohemian Ing nature in O Ind bare essent Practical/Viva	ration rganic :ials	CO4,CO5,CO6				
Unit 5 A B C Mode of examination Weightage	Removing lay Carefree Connectir Minimalism a Theory/Jury/	/ers of exagge Bohemian Ing nature in O Ind bare essent Practical/Viva MTE	ration rganic :ials ETE	CO4,CO5,CO6				
Unit 5 A B C Mode of examination Weightage Distribution	Removing lay Carefree Connectir Minimalism a Theory/Jury/ CA 60%	yers of exagge Bohemian Ing nature in O Ind bare essent Practical/Viva MTE 0%	ration rganic :ials ETE 40%	CO4,CO5,CO6				
Unit 5 A B C Mode of examination Weightage Distribution Text book/s*	Removing lay Carefree Connectir Minimalism a Theory/Jury/ CA 60% Furniture Des	yers of exagge Bohemian Ing nature in O Ind bare essent Practical/Viva MTE 0% Sign, Jerzy Sma	ration rganic tials ETE 40% ardzewski,	CO4,CO5,CO6				
Unit 5 A B C Mode of examination Weightage Distribution Text book/s* Other	Removing lay Carefree Connectir Minimalism a Theory/Jury/ CA 60% Furniture Des The Design of	yers of exagge Bohemian ng nature in O nd bare essent Practical/Viva MTE 0% Sign, Jerzy Sma Everyday Thi	ration rganic tials ETE 40% ardzewski, ngs: Don Norman	CO4,CO5,CO6				
Unit 5 A B C Mode of examination Weightage Distribution Text book/s* Other References	Removing lay Carefree Connectin Minimalism a Theory/Jury/ CA 60% Furniture Des The Design of Emotional De	yers of exagge Bohemian Ing nature in O Ind bare essent Practical/Viva MTE 0% Sign, Jerzy Sma Everyday Thi esign: Why We	ration rganic tials ETE 40% ardzewski, ngs: Don Norman E Love (or Hate) Everyday	CO4,CO5,CO6				
Unit 5 A B C Mode of examination Weightage Distribution Text book/s* Other References	Removing lay Carefree Connectir Minimalism a Theory/Jury/ CA 60% Furniture Des The Design of Emotional De Things, Don N	Vers of exagge Bohemian Ing nature in O Ind bare essent Practical/Viva MTE 0% Sign, Jerzy Sma Everyday Thi Esign: Why We Norman,	ration rganic tials ETE 40% ardzewski, ngs: Don Norman E Love (or Hate) Everyday	CO4,CO5,CO6				

С	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
CO1	3	2	-	1	1	2	3	2	2	2	2	-	-
CO2	3	-	1	2	2		3		2	3	3	1	-
CO3	2	1	2	3		2	2	1		2	2	-	1
CO4	3	2	3	1	1	3	2	2	1	3	3	1	-
CO5	2	3	1	-	1	-	3	3	2	3	2	-	-
CO6	3	1	-	1	-	2	2	1	3	3	3	-	-

1-Slight (Low) 2-Moderate (Medium) 3-Substantial (High)



Sch	ool: SAP	Batch : 2020-2024	
Prog	ram: B.Des	Current Academic Year: 2021-2022	
Bran	ich:IPD	Semester: III	
1	Course Code	PDTJ302	
2	Course Title	Industrial Design in Market place	
3	Credits	3 Credits	
4	Contact Hours (L-T-P)	1-0-2	
	Course Status	Compulsory	
5	Course Objective	 This course is to develop the data collecting skills in the students via Market Research. The course aims at making students develop survey formats and interviewing skills. Development of data analysis skills, in students, to arrive at definite conclusions. 	
6	Course Outcomes	After the completion of this course, student will be able to: CO.1. Construct surveys to gauge the market sentiment over product performance, demand, desired changes, other aspects related to design. CO.2. Identify customer needs in order to develop a solution. CO.3. Analyse the gathered data and analyse it to arrive at a definite conclusion. CO4. Gather insights from the industry in terms of innovation . CO5. Future perspectives with respect to current happenings from the market.	
7	Course Description	The course is designed to give students exposure to market research via surveys, interviews and data analysis.	
8	Outline syllabus		CO Achieve ment



	Unit 1		Introductio	on to Industrial	Design	CO1,CO				
-						2				
		1	Instruction	s on how to cre	ate surveys and interview					
		2	creating su	rveys and distri	butions					
		3	Inferences	from the surve	y and Data analysis					
	Unit 2		Market Re	search		CO2,CO				
						3				
		1	Surveying a	Surveying and interviewing people						
		2	Types of re	ypes of research and its impact						
		3	Inferences	ferences from the research and Data analysis						
	Unit 3		Data Analy	ata Analysis						
		1	Conclusion	s from the gath	ered data -1					
		2	Cross map	oing of the infer	rences and established research					
			data							
		3	Formulatin	g the final data	extraction					
	Unit 4		Productior	is processes an	d industries					
		1	Possibilitie	s by tracing the	existing industry secenario					
		2	Limitation	with specific typ	pes of processes					
		З	Solution to	the limitations	-Brainstorming					
	Unit 5		Understan	ding Market wi	th respect to research and	CO1,CO				
			Data			4				
		1	Data Comp	ilation and sub	missions of report and					
			presentatio	ons						
		2	Presentatio	ons and Inferen	ces -1					
		З	Presentatio	ons and Inferen	ces -2					
	Mode of		Jury/Viva	lury/Viva						
	examination									
	Weightage		CA	MTE	ETE					
	Distribution		60%	0%	40%					
	Text book/s*		-							
	Other		Design secrets –Product 2 Lynn Haller, Chery							
	References		Cullen,Prod	duct Design & D	evelopment –Karl T Ulrich					

POs	PO	РО	PO	PSO	PSO	PSO	PSO						
COs	1	2	3	4	5	6	7	8	9	1	2	3	4
CO1	1	1	2	2	3	1		1	1	1	1	2	-
CO2	1	-	1	-	3	-	1	1		-	1	-	2
CO3	2	1	1	1	1	1	2	1	2	1	1	-	3

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CO4	1	2	1	2	1	-	1	2	1	-	2	3	-	
CO5	2	1	3	3	1	2	-	2	3	3	3	-	2]

1-Slight (Low) 2-Moderate (Medium)

3-Substantial (High)



		process to in subject.	spire as well a	as build understa	anding of the				
8	Outline syllabus					СО			
						Achievement			
	Unit 1	Sustainabl	e developme	nt Goals					
		a) Understa	anding the ma	aterials and thei	r	CO1, CO4			
		consequen	ces						
		b) Defining	sustainable (development-		CO1, CO4			
		c) the visio	n of UNDP			CO1, CO4			
	Unit 2	Sustainabl	Sustainable Businesses						
		a) Sustaina	a) Sustainable Business model Theory-						
		b) Challeng	ges for sustair	nability-		CO2, CO4			
		c) Respons	sibility & opp	ortunity-		CO2, CO4			
	Unit 3	Design for	sustainability	/					
		a) What is	Sustainable D	esign		CO3, CO4			
		b) Tools a	nd guiding as	pects towards	sustainable	CO3, CO4			
		design							
		c) Underst	anding Desigr	n when sustaina	ble	CO3, CO4			
	Unit 4	Roadmap	Roadmap to sustainability						
		a) Circular	vs. Linear de	sign process-		CO3, CO4			
		b) changes	needed to m	ove from linear	to circular	CO3, CO5			
		with exam	ples						
		c) Collabor	ation vs. solo	runs-		CO3, CO5			
	Unit 5	Case studi	es						
		a) Furnitur	e and home o	lecor companies	S	CO3, CO4			
		b) Creative	sources wor	king with brand	S	CO3, CO4			
		c) Synchro	nization of pa	rtners		CO3, CO5			
	Mode of	CA & End T	erm Jury						
	examination		1						
	Weightage	CA	MTE	ETE					
	Distribution	30%	20%	50%					
	Text book/s*	1. dow	1. download the book RESTART Sustainable						
		Bus	Business Model Innovation by using this link: https://link.springer.com/book/10/1007%2F978-						
		3-32	<u>3-319-91971-3</u>						
	Other	1. The	1. The Brundtland report, 1987						
	References	2. McL	2. McLennan, J. F. (2004). The philosophy of sustainable						
		desi	gn: The future o	<i>f architecture</i> . Ecot	one				
		pub	lishing.						



POs COs	P01	P02	PO3	P04	PO5	P06	P07	P08	60d	PSO1	PSO2	PSO3	PSO4	
CO1	2	1	2	3	1	2	2	1	1	1	2	1	2	
CO2	2	2	1	3	1	2	2	1	2	1	3	1	3	
CO3	1	2	3	1	2	3	1	2	1	1	2	1	2	
CO4	2	2	3	1	1	2	3	1	3	2	3	1	3	
CO5	1	2	3	1	2	3	1	2	1	3	2	-	1	
	3. https://i-d.vice.com/en_us/article/wjwn5w/if- fashion-is-going-to-clean-up-its-act-we-need-to- stop-talking-about-sustainability													

1-Slight (Low) 2-Moderate (Medium) 3-Substantial (High)

		S S	HARDA NIVERSITY
Sc	hool: SAP	Batch : 2020-2024	jone boenderres
Pro	gram: B.Des	Current Academic Year: 2021-2022	
Bra	nch:IPD	Semester: III	
1	Course Code	PDJ305	
2	Course Title	Design Semantics	
3	Credits	3	
4	Contact Hours (L-T-P)	1-0-2	
	Course Status	Compulsory	
5	Cours e Objective	 This course aims to develop an understanding in the students about how design is communicated through different senses of the humans and how they play an important role in effective function. The students are to be made aware of various design communication elements, e.g- line, curves, waves, colors, shadows, dots, stippling , composition , sequence , etc. The course aims at development of design communication skills in the students and bridging a gap between engineering and design 	
6	Course Outcomes	After the completion of the courses ,students will be able to : CO.1. Learn how design operates universally with different mindsets, culture and ethics. CO.2. Proper knowledge about how engineering is fused into design and how design is an integral part of engineering. CO.3 Define a universal language that communicates the user irrespective of cultural Differences. CO. Learn how information is being imparted with the help of Design in close combination to products. CO5: Proficienct in designing product to get rid of mental fatigue.	
7	Course Description		

						SHARDA				
			The cou	urse is designe	d to understand	Beyond Boundarie:				
			symbol	s & signs with	the tangible and					
			intangi	ble and the co	ncept universal					
			commu	inication to h	iman eves.					
8	Outline syllabus					СО				
						Achievement				
	Unit 1	Introduc	tion to T	Горіс		CO1, CO2				
		Design e	lements	and exercises	based on them					
		Design Ir	nfo grapl	hic						
		Presenta	itions an	d Discussions	on Connection am	nong				
		them								
	Unit 2	Design T	heories	and Elements		CO1				
		Design T	heories							
		Understa	Jnderstanding color, symbol and textures							
		Discussio	Discussions with relevant examples							
	Unit 3	Typogra	Typographies and their communication							
		Commur	nication	with typograp	hies and symbolism	n				
		Design n	notivatio	on and Instinct	S					
		Presenta	itions an	d Discussions	on how design					
		motivate	es							
	Unit 4	Visual co	ommuni	cation in mate	erials and symbols	CO1,CO4,				
		symbolis	m with t	textures, shap	es and form					
		Connect	ing, forn	n, aesthetics a	and meaning					
		Discussio	ons on p	roducts which	lack function or fo	orm				
	Unit 5	Design a	s a univ	ersal language	9	CO2,CO3,CO5				
		Design c	onnect i	ndifferent to d	culture					
		Cultural	diversity	and acceptar	ice in perception					
		Form, te	xture an	d color in diff	erent context/cultu	ure				
	Mode of	Jury/Viva	Э							
	examination									
	Weightage	CA		MTE	ETE					
	Distribution	<mark>60%</mark>		<mark>0%</mark>	<mark>40%</mark>					
	Text book/s*	-Designi	ng Brand	d Identity by A	lina Wheeler					
	Other	Thinking	with type	e by Allen Lupt	on					
	References									



POs	PO	PSO	PSO	PSO	PSO								
COs	1	2	3	4	5	6	7	8	9	1	2	3	4
CO	2	1	2	2	1	2	2	1	1	1	2	1	2
1													
CO	3	1	1	3	1	1	2	1	1	1	3	1	3
2													
CO	1	2	3	1	2	3	1	1	1	1	1	1	2
3													
CO4	1	1	2	1	1	2	3	1	2	2	1	1	1
CO5	2	3	2	3	3	2	1	3	2	2	3	3	1

1-Slight (Low) 2-Moderate (Medium)

3-Substantial (High)



Sch	ool: SAP	Batch : 2020-2024	
Prog	ram: B.Design	Current Academic Year: 2021-2022	
Bran	ch:Industrial &	Semester: III	
Prod	uct Design		
1	Course Code	PDJ301	
2	Course Title	Industrial & product Design studio-II (Product)	
3	Credits	12	
4	Contact Hours	0-4-8	
	(L-T-P)		
	Course Status	Compulsory	
5	Course Objective	 1-The students shall be able to gather real life issues and problems existed in the society and research on its viability and need for intervention. 2-It has been objectified to make students take projects and make them understand the complete processes from the basic sketch to the final prototype. 3-The students shall be able to understand the complex flow of intensive product parameters and current trend waving across the market. 4-The students shall be able to learn the documentation of the complete process and learn presentation techniques to pitch their ideas to the potential companies and clients. 	
6	Course Outcomes	After the completion of the courses ,students will be able to :CO.1 Understand the advanced level process and be able to justify their design and thinking with respect to the need of the market and the consumers.CO.2 Learn research techniques .CO3. Expertise in doing analysis for the potential viability and need for the projects.CO.4 Gather confidence of bringing an idea into a real working product and justify it in front of the jury at the end of the semester.CO.5 Problem solving on real time based projects.	



7	Course Descript	tion	The cours issues and solving wi It will incl crazy idea with vario	<u> </u>						
0	Outime synabus	>				Achievement				
	Unit 1		Identificati	on of problems	and Research	CO1,CO2				
		1	Researchin	g on problems a	nd issues					
		2	Background	d of the relevant	field					
		3	Identifying	the niche Area a	and Design Brief					
	Unit 2		Concept an	oncept and Visualisation						
		1	Brainstorm							
		2	Ideation th							
		3	Design Thir							
	Unit 3		Conceptua	Development		CO2,CO4				
		1	Developme	nt of forms and	processes					
		2	Material fir	alisation and te	chnology intervention					
		3	Finalisation	of forms and sp	pecifications					
	Unit 4		Model mak	ing and prototy	ping	CO3,CO5				
		1	Modelling i	n foam						
		2	Detailing of	^f Mock-ups and	prototyping					
		3	Painting an	d renderings						
	Unit 5		Finalisation	n and Presentati	ion	CO3,CO4,CO5				
		1	Detailing in	presentation						
		2	Compiling a	all the nuances						
	Mode of		Jury	ury						
	examination									
	Weightage		CA	CA MTE ETE						
	Distribution	ſ	60%							
	Text book/s*		-							
	Other		Design for	Change –Tim	n Brown,Paul Norman-Design					
	References		Methodolo	gy						

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POs	PO	PSO	PSO	PSO	PSO								
COs	1	2	3	4	5	6	7	8	9	1	2	3	4
CO1	2	1	2	2	1	1	1	1	1	1	1	2	2
CO2	3	1	1	2	1	1	2	1	1	1	1	2	3
CO3	1	2	3	1	1	1	3	1	1	1	1	1	2
CO4	1	1	2	1	1	1	1	-	2	1	2	1	1
CO5	3	-	3	1	2	2	1	2	3	3	-	1	2

1-Slight (Low) 2-Moderate (Medium) 3-Substantial (High)



Sch	ool: SAP	Batch : 2020-2024	
Prog	ram: B. Des	Current Academic Year: 2021-2022	
Bran	ich:IPD	Semester: IV	
1	Course Code	PDJ404	
2	Course Title	Materials and Processes - I	
3	Credits	3	
4	Contact Hours (L-T-P)	0-1-2	
	Course Status	Compulsory	
5	Course Objective	This course aims at providing knowledge to the students in various industrial manufacturing processes of different materials, e.g steel, ceramics, glass, etc and manufacturing of products from them After the completion of the courses ,students will be able	
		 to: CO.1. Learn common industrial processes& practises. CO.2. Explore & understand application of various materials in making a product. CO.3. Develop understanding of various usages of materials, their advantages and shortcoming, and techniques of their combination with other materials. CO4. Expertise in the S art of manipulating materials and also their behaviour with each other. CO5. Proficient in juxtaposition of multiple processes. 	
7	Course Description	The course is designed to give students exposure of various materials, their manufacturing processes, & practises and techniques.	
8	Outline syllabus		CO Achieve ment
	Unit 1	Introduction to Industrial Processes	CO1,CO2
	1	Research and study of Industrial Processes	
	2	Innovation and evolution on Industrial processes	
	3	Factory production	
	Unit 2	Case study-1	CO2,CO3



			1	St	tudy of a particular product(s) in terms of its											
				m	nanufa	ctu	rin	g and	applic	ation						
			2	Fa	actory	pro	odu	uction	of the	produ	ıct					
			3	Pa	ackaging of the products and processes											
Un	it 3			Ca	Case study-2									CO1, CO3		
			1	St	tudy o	fap	bar	ticula	r prod	uct(s)	in terr	ns of its	5			
				m	anufacturing and application											
			2	Fa	actory	pro	odu	uction	of the	produ	ıct					
				Pa	ackagi	ng c	of t	the pro	oducts	and p	roces	ses				
Un	it 4			Sł	heet n	neta	al p	oroces	ses						CO2, ,CO4	CO3
	1 Blanking, punching etc															
	2 Case study of sheet metal processes in application															
	3 Conclusion and inferences															
Un	it 5			Pl	Plastics as material									CO1,	CO4	
	1 Usage and types															
	2 Applications and specifications															
			3	Fι	Futuristic plastics and bio system											
Mo	ode of			Ju	Jury/Viva											
 exa	amina	tion														
We	eighta	ge		CA M			1TE		ETE							
 Dis	stribut	ion		60	60% 0% 40%											
 Te	xt boo	k/s*		-A	-A course in Worksop Technology-B.S. Raghuwanshi											
Ot	her															
Re	ferenc	es	r		1	1		n		n		T	T	T		
POs	PO	PO	P	0	РО	PC	C	PO	PO	PO	PO	PSO	PSO	PSO	PSO	
COs	1	2	З	3	4	5		6	7	8	9	1	2	3	4	
CO1	2	1	2	2	2	2		1	1	1	2	1	2	2	2	
CO2	3	1	1	L	2	3		-	2	1	3	1	1	2	3	
CO3	1	2	3	3	1	1		2	3	1	1	2	3	1	2	
CO4	2	1	-	-	2	3		-	1	-	1	-	3	-	1	
CO5	1	2	1	L	2	-		3	2	3		2	-	2	-	

1-Slight (Low) 2-Moderate (Medium)

3-Substantial (High)





School: SAP		Batch : 2020-24	
Program:		Current Academic Year: 2020	
B.	Design		
Br	anch: ID/IPD	Semester: IV	
1	Course Code	TIP 401	
2	Course Title	Trend and Forecasting	
3	Credits	2	
4	Contact	2-0-0	
	Hours		
	(L-T-P)		
	Course Status	Compulsory	
5	Course	 To make the students aware of the trends and 	
	Objective	forecast, and its impact on the products	
		development process.	
		 To provide basic fundamental knowledge about 	
		essential stages of research, as a vital part of any	
		design process.	
		 To build awareness about the current Fashion 	
		trends & challenges in product development.	
6	Course	After completion of this course, student will able to:	
	Outcomes	CO.1. Understand various design philosophies and ideas	
		behind various products and their design development	
		stages.	
		CO.2. Learn the evolution of design in several products	
		based on consumer preferences	
		CO.3. Analyze the product journey- from the making to display	
		CO.4. Conceptualize themes and boards based on	
		fashion seasons	
		CO.5. Identify consumerism and product demand based	
		on trend study	
		CO.6. Receive a holistic learning on picking up the color,	
		styles, materials, and designs of the products based on	
		discussed trend	
7	Course	In this course, the students will understand the product	
	Description	development process based on the need of the hour and	
		dynamic market, and will also learn about the factors	
		influencing those changes.	
8	Outline syllabus	5	СО
			Achievement
	Unit 1	Understanding and finding Trend	CO1,CO2
	1	Identifying Trend	

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			2	Tren	Trend research: Global Context										
			3	Tren	d resea	arch: Ir	ndian C	Context	t						
	Un	nit 2		Intro	ductio	on to fo	orecast	ting					CO2,C	D3,CO4	
			1	Fore	casting	, eleme	ents:								
				Mate	erials, (
			2	Fore	casting										
			3	Impl	ement										
		Need, Advantages and Limitations													
	Unit 3 Trend Analysis and Data Collection											CO2,C	03 <i>,</i> CO4		
			1	Iden	tifying	Consu	mers								
			2	Iden	tifying	Marke	t								
			3	Iden	tificatio	on of T	rend D)ata							
	Un	nit 4		Tren	d Mer	chandi	sing						CO4,C	D5,CO6	
			1	Tren	d data	analys	is and	applica	ations						
			2	Cons	umeri	sm and	l dema	ind							
			3	Prod	uct jou	ırney: l	Makin	g to Dis	stributi	ions					
	Un	nit 5		Inter	ior Tre	end Cy	cle						CO4,CO5,CO6		
			1	Unde	erstand	ding Ze	itgeist								
			2	Seas	ons in	Trends	i								
			3	Visua	al Mer	chandi	sing Tr	ends							
			4	Tren	d cycle	: Grap	hs								
	М	ode of	-	THEORY											
	exa	amina	tion				_								
	We	eighta	ge	СА			MTE			ETE					
	Dis	stribut	tion	30%			20%								
	Te	xt boc	ok/s*	The Design of Everyday Things by don norman											
				<u>Forecasting Methods And Applications</u> - <u>Spyros Makridakis</u> ,											
				Steven C Wheelwright, Rob J Hyndman											
				Forecasting: Applications And Methods- Francis X. Diebold											
				INEW Product Forecasting: An Applied Perspective- Kenneth B. Kahn, Martin Joseph, Alec Finney											
				 New Product Forecasting : An Applied Approach- Kahn 											
					Kenneth B.										
	Ot	her		The l	ean pro	duct pl	aybool	k by Da	n Olsen						
	References														
PC)s	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4	
CC)s														
CC)1	3	1	1	2	3	3	1	1	3	2	1	1	2	
CC)2	3	3	2	3	1	-	2		-	1			1	

											S U	HA]	RDA RSIT	Y
CO3	3	2	1	1	2	3	1		3	2			1	
CO4	3	3	1	1	3	2	2	-	1	1	-	-	-	
CO5	2	2	2	2	1	3	1	1	3	2	1	1	2	
CO6	3	2	-	2	3	-	1	1	3	3	1	-	1	

1-Slight (Low)

2-Moderate (Medium)

3-Substantial (High)

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Sch	ool: SAP	Batch : 2020-2024	m Beyong Boungaries
Pro	gram: B.Design	Current Academic Year: 2021-2022	
Bra	nch:IPD	Semester: 4	
1	Course Code	PDJ405	
2	Course Title	Research, Storytelling and Narratives	
3	Credits	3	
4	Contact Hours (L-T-P)	0-1-2	
	Course Status	Compulsory	
5	Course Objective	1-This course is to develop the data collecting skills in the students via Market Research.	
		2-The course aims to develop innovative skills in the field of Research and information. Collation of data, its representation etc.	
		3-The course aims to develop the sense of critical understanding and critical thinking with respect to information and its narration.	
6	Course Outcomes	After the completion of this course, student will be able to: CO.1 Construct research to collect data from different sources and categories them in to creative ideas. CO.2. Judge the information critically and analyze and represent the information with respect to users or consumers. CO.3. Develop skills in presenting data and bring in innovation approach to storytelling. CO4. Expertise in skill to engage audience along with the motive to educate, influence or guide them. CO5: Examine traditional narrative story processes, such three act structure.	

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							Beyond Boundaries
/	Course Descript	lon					
			The cou	rse is design			
			Innovati	ve skills in si	tudents in c	lata	
			collectio	n, analysis c			
			presenta		i and concil	usion with	
			respect	to audience:			
8	Outline syllabus	5			CO Achievement		
	Unit 1	Intro	duction to	o topic			CO3
	1	Instru	ctions on	how to crea	ate surveys	and	
		interv	view peop	le.			
	2	Deba	ing and D	Discussion			
	3	Public	: speaking	g Skills			
	Unit 2	Critic	al analysi	s of Informa	tion		CO3,CO1
	1	Bringi	ng in diffe				
		persp	ectives.				
	2	Analy	sis of data				
	3	Concl	usion				
	Unit 3	The A	rt of Stor	CO1,CO2,CO4,CO5			
	1	Medi	ums and s				
	2	Use o	f props ar	nd Gestures			
	3	Hand	moveme	nts and expr	essions		
	Unit 4	Docu	mentatio	n of Informa	CO2,CO3		
	1	comp	arison am	ong differei			
		repre	sentation	skills			
	2	Comp	iling data	and structu	ring		
	3	Eleme	ents of Re	search			
	Unit 5	Concl	usive and	l compilatio	n		CO2,CO5
	1	Infere	ences and	possible jus	tifications		
	2	Comp	iling diffe	rent types o	of researche	s	
	3	Differ	ent medi	ums of story	telling		
	Mode of	Jury /	Viva				
	examination			r	-1		
	Weightage	CA		MTE	ETE		
	Distribution	<mark>60%</mark>		<mark>0%</mark>	<mark>40%</mark>		
	Text book/s*	-					
	Other	The A	natomy of	Story: 22 Ste	ps to Becom	ning a Master	
	References	The S	torvtelling	Animal: How			
		Novel	by Jonatha				

												SH	AR VERS	DA
POs	РО	РО	РО	PO	PO	PO	РО	PO	PO	PSO	PSO	PSO	PSO	
COs	1	2	3	4	5	6	7	8	9	1	2	3	4	
CO1	2	1	2	2	1	1	1	1	1	1	1	2	2	
CO2	3	1	1	2	1	1	2	1	1	1	1	2	3	
CO3	1	2	3	1	1	1	3	1	1	1	1	1	2	
CO4	2	1	2	3	3	2	2	3	3	3	2	1	3	
CO5	3	1	2	1	2	3	2	1	2	1	2	1	2	

1-Slight (Low)

2-Moderate (Medium)

3-Substantial (High)


Sch	ool: SAP	Batch : 2020-2024	
Prog	ram: B.Design	Current Academic Year: 2019-20	
Bran	ch:Industrial&	Semester:IV	
Prod	luct Design		
1	Course Code	PDJ401	
2	Course Title	Industrial & product Design studio-III (Product)	
3	Credits	12	
4	Contact Hours	0-4-8	
	(L-T-P)		
	Course Status	Compulsory	
5	Course Objective	1-The students shall be able to gather real life issues and problems existed in the society and research on its viability and need for intervention.	
		2-It has been objectified to make students take projects and make them understand the complete processes from the basic sketch to the final prototype.	
		3-The students shall be able to do critical analysis of the need for their product and current trend waving across the market.	
		4-The students shall be able to learn the documentation of the complete process and learn presentation techniques to pitch their ideas to the potential companies and clients.	
6	Course Outcomes	After the completion of this course, student will be able to: CO.1. Learn to start looking at the commercial viability , prototyping and document the whole process and be able to justify their design and thinking with respect to the need of the market and the consumers. CO.2. Develop a learning in research techniques and do analysis for the potential viability and need for the projects. CO.3. Achieve confidence of bringing a idea into a real working product and justify it in front of the jury at the end of the semester	

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		CO.4 Dev								
		on real ti	me based projec	ts						
		CO5 – Ur	derstand the ap	proach of incorporating the						
		user frier	user friendliness of the product .							
7	Course Descriptio	n The cours	The course is designed to make students research for							
		issues an	d problems abou	It the society and do a problem						
		solving w	solving with their analytical and out of the box thinking.							
		It will inc	It will include various brainstorming sessions to bring							
		crazy ide	crazy ideas and then turn them into sensible products							
		with varie	with various developments to it.							
8	Outline syllabus				СО					
					Achievem					
					ent					
	Unit 1	Identificat	ion of problems	and Research	CO1,CO2					
	1	Researchin	g on problems a	nd issues						
	2	Backgroun	d of the relevant	: field						
	3	Identifying	the niche Area	and Design Brief						
	Unit 2	Concept a	Concept and Visualisation							
	1	Brainstorm	ning session and	Ideation						
	2	Ideation th	rough sketching	and Modelling						
	3	Design Thi	nking Exercises							
	Unit 3	Conceptua	l Development		CO3,CO5					
	1	Developme	ent of forms and	processes						
	2	Material fi	nalisation and te	chnology intervention						
	3	Finalisation	n of forms and sp	pecifications						
	Unit 4	Model ma	king and prototy	/ping	CO1,CO2,					
					CO3,CO4					
	1	Modelling	in foam							
	2	Detailing o	f Mockups and p	prototyping						
	3	Painting ar	d renderings							
	Unit 5	Finalisatio	n and Presentat	ion	CO1,CO2,					
					CO3,CO5					
	1	Detailing ir	Detailing in presentation							
	2	Compiling	Compiling all the nuances							
	3	Presentatio	Presentation of data equipped in different soft wares							
	Mode of	Jury								
	examination									
	Weightage	CA	MTE	ETE						
	Distribution	60%	0%	40%						
					1					



Text book/s*	-	
Other References	Residential Interior Design: A Guide To Planning Spaces Paperback - Maureen Mitton, <u>Courtney Nystuen</u> <u>www.housebeautiful.com</u> Sustainable residential interiors by anette stelmack,Debbie hindman and Kari Foster	

POs	PO	PO	PO	PO	РО	РО	PO	PO	PO	PSO	PSO	PSO	PSO
COs	1	2	3	4	5	6	7	8	9	1	2	3	4
CO1	2	1	2	2	1	2	1	2	2	1	1	2	2
CO2	3	1	1	2	1	3	1	1	2	1	1	2	3
CO3	1	2	3	1	1	1	2	3	1	1	1	1	2
CO4	1	1	2	1	1	1	1	2	1	1	1	1	1
CO5	2	1	3	2	1	2	3	2	1	2	1	2	1

2-Moderate (Medium)

3-Substantial (High



SEMESTER - V



Scho	ool: SAP	Batch : 2020-2024	
Prog	ram: B.Design	Current Academic Year: 2022-2023	
Bran	ich: IPD	Semester: V	
1	Course Code	PDJ506	
2	Course Title	Design Innovation	
3	Credits	3	
4	Contact Hours	0-1-2	
	(L-T-P)		
	Course Status	Compulsory	
5	Course Objective	1. To make students Understand the difference in	
		invention, Innovation and discovery.	
		2. To make students learn the art of Innovation in the	
		given environment and given material, spaces and	
		Organisation.	
		3. To make students Understand the Tools and Tips to	
		incorporate innovation through creative thinking and	
		brainstorming.	
		4. To make students learn the evolution of society and	
		study the innovation in human habitation, products	
		and experiences.	
6	Course	After completion of this course, students will able to:	
Ũ	Outcomes	CO.1. Learn to differentiate between innovation and	
		creativity and how to utilise it While Designing	
		Interiors, products Or experience for the end	
		consumer	
		CO 2 Learn Standard processes of developing and	
		funding now start uns what's the ideal	
		anvironment for the companies and how to start 9	
		environment for the companies and now to start &	
		run in any given society.	
		CO.3. Learn one can innovate with the materials and	
		resources at hand.	
		CO4. Understand the change involved with innovation	
		and how to bridge the gap between various	
		players in any new innovation.	
		CO5: identify and understand various advanced space	
		design techniques and concepts.	

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7	Course		The course	is targeted at ev	veryone who wants to know					
	Description		about deve							
			lowest envi							
			foundation	s of the innovat	ive product ecosystem.					
8	Outline syllabus	s				CO				
						Achievem				
						ent				
	Unit 1			Innovation in T	ransit Systems around	CO1,CO3,				
			1	the world		CO4				
		1	History of t	ransit system ar	ound the world					
		2	Innovation	and evolution in	n human transit					
		3	challenges	challenges in transit system and issues						
	Unit 2	S	CO1, CO2							
		1	community	behaviour and	mass transit in volumes					
		2	social beha							
		З	Case Study							
	Unit 3		Design inte	CO2,CO3						
		1	Design inte							
		2	concept							
		3	Concept de	velopment						
	Unit 4		Consumer	behaviour and i	reflex actions	CO2,CO4,				
						CO5				
		1	Prototypes	Using Foam & (Cardboard					
		2	Final Prese	ntation						
		3	Understand	ding innovation	in evolution of gadgets					
	Unit 5		Design inte	rventions and p	oossibilities in durables	CO1,CO2,				
						CO5				
		1	Changing h	uman behaviou	r and reflexes					
		2	Design Inte	rventions and c	oncept					
		3	Prototyping							
	Mode of		Jury/Practio							
	examination									
	Weightage		CA							
	Distribution		60%							
	Text book/s*		-							
	Other		Change by	design –Tim bro	wn					
	References		Innovation	by Design- Edga	ir Papke					



POs COs	P01	P02	PO3	P04	PO5	P06	P07	P08	60d	PSO1	PSO2	PSO3	PSO4
CO1	2	1	2	1	2	2	1	1	1	1	1	2	1
CO2	3	1	3	1	1	2	1	1	1	1	1	3	1
CO3	1	2	1	2	3	1	1	1	1	2	1	1	2
CO4	1	1	1	1	1	1	2	1	1	1	1	2	1
CO5	3	1	1	1	-	1	2	1	1	3	-	3	1



School: SAP		Batch : 2020-2024		
Due		Comment Academic Very 2020-24		
Prog	ram: B.Design	Current Academic Year: 2020-21		
Bran	Course Code	Semester: V		
1	Course Code	PDJ502		
2	Course litie	Design, Media & Technology		
3	Credits	3		
4	Contact Hours	0-1-2		
	(L-T-P)			
	Course Status	Compulsory		
5	Course Objective			
		1. This course aims to develop an understanding in the		
		students about how roles of Visual Interface, Social		
		Media, Multimedia.		
		2. The students are to be made aware of various design		
		tools that can be used to design interaction between user		
		and various media interfaces		
6	Course Outcomes	After completion of this course, students will able to:		
		CO.1. Learn skills and thought process related to		
		Multimedia Design.		
		CO.2. Hone skills into multimedia interface design.		
		CO.3. Become proficient to integrate design with media		
		and technology and understand design in various		
		context.		
		CO4. Develop understanding about the relevance of		
		graphics, Design and interaction in social media.		
		CO.5. Understand the inevitable threshold of digital into		
		product design.		
7	Course Description	The course is designed to instruct students in various		
		aspects of Interface Design, Media & Interface		
		technologies.		
8	Outline syllabus		CO	
			Achieve	
			ment	
	Unit 1	Introduction to design and media	CO1	
	1	Visual Interface design understanding.		
	2 Introduction to graphics in media			
	3	Styling in design in print media		
	Unit 2	Design Exercises on development of interface	CO1	



1	Understan	Inderstanding interfaces							
2	Wireframe	and modelling							
3	Interaction	and cognitive f	unctions						
Unit 3	Print Medi	a Technology		CO2,CO5					
1	Graphics a	nd printing							
2	Fonts, style	⁻ onts, styles, formatting guidelines in different print media							
3	Trend and	rend and Technology in printing techniques							
Unit 4	Social Med	Social Media							
1	Interfaces	n social Media a	ind cognition						
2	Influence c	f social media w	ith respect to Design						
3	Understan	Jnderstanding system and possibilities							
Unit 5	Electronic	Electronic Media and News Rooms							
1	Understan	Understanding graphics, colour and influence							
2	Technology	/ and system wit	h respect to design						
3	Compilatio	n of Data and pr	esentation						
Mode of	Jury/Viva								
examination									
Weightage	CA	MTE	ETE						
Distribution	<mark>60%</mark>	<mark>0%</mark>	<mark>40%</mark>						
Books/reference Digital Foundations: Introduction to Media Design with the Adobe Creative Cloud - Revised Edition- xtine burrough Michael Mandiberg									

POs	РО	PSO	PSO	PSO	PSO								
COs	1	2	3	4	5	6	7	8	9	1	2	3	4
CO1	2	1	2	1	2	2	1	1	1	1	1	2	1
CO2	3	1	3	1	1	2	1	1	1	1	1	3	1
CO3	1	2	1	2	3	1	1	1	1	1	1	1	2
CO4	2	1	2	1	3	2	2	3	2	3	1	2	1
CO5	3	1	2	3	1	3	1	2	1	1	2	2	3

2-Moderate (Medium)

3-Substantial (High



Scho	pol:	Batch : 2020-24							
Prog	gram:	B.Design Current Academic Yea	ar: 2022-23						
Brar	nch: Interior	Semester: V							
Desi	ign								
1	Course Code	PDJ504							
2	Course Title	Furniture Design							
3	Credits	4							
4	Contact	(0-2-2)							
	Hours								
	(L-T-P)								
	Course Type	Compulsory							
5	Course	1. Learn about all aspects of Furniture Design from brie	f history to the						
	Objective	various categories of furnitures, various manufactu	iring process involved						
		to adaptation of materials in different spaces.							
		2. The course aims at making the students absorb t	the elements and						
		principles in furniture design merchandising and	applying them in						
		their own designs.							
		3. To learn all the design process in context of furnitur	e with the relevance						
		of each elements of							
		Design approach.							
		4. Develop the understanding of the significance of forecasting and explore							
		new avenues in furniture design.							
6	Course	After completion of this course, students will able to							
	Outcomes	CO1. Learn various lexicons used in furniture design which	ch distinguishes						
		CO2 Linderstand the Ergonomics Anthronometry and P	Provemics in						
		Furniture	TOXETTICS III						
		CO3 Good grasp of practical preference in a space when choosing materials							
		on the basis of their behaviour.							
		CO4. Learn to design furniture while applying case studie	s and understanding						
		need of every human need.							
		CO5: Understand the overall transformation of furniture	design from						
_	•	traditional designs to contemporary							
/	Course	ine course is intended for students to learn and practice the making of furniture. The students to learn and practice the students are students to be a student to be a student student to be a student studen	tise all the aspects						
	Description	Integral in the making of furniture . They will develop	the indepth						
		Understanding of function/utility of furniture in relat	ion with form,						
_	CO Manaina								
ð		15	CO wiapping						
		Introduction	601.602						
	А	Ancient Egyptian to the pre-independence impact of							
		Furoneans on india							
<u> </u>			I						



В	Choose four	design mover	nents and design a furniture									
	piece from ea	ch era and w	riting characteristic on each									
	sketch.											
C	Design Discus	sion on Funct	ion, comfort and									
 11	anthropomet	us categories of furnitures .	<u> </u>									
Unit 2	Furniture se	egregations a	as per space	01,002,003								
-	utility/manu	itacturing										
A	Furniture Des	ign Principles										
В	Classification	Classification of furniture on the basis of										
	manufacturin											
C	Design projec	ct - To design	furnitures and accessories									
	in a given sp	ace.										
Unit 3	Concept and	Material Pl	anning	CO3,CO4,								
А	Class Presenta	ation with ini	tial design direction of									
	Furnitures and											
В	Class discussion	on on final dr	awings									
С	Final display											
Unit 4	Final design			CO1,CO4,CO5								
А	Virtual Mode											
В	Prototyping											
С	Material App											
Unit 5	Documentat	CO1,CO2,CO4,CO5										
A	Finalization of											
В	Final Docume	ntation of th	e products chosen.									
С	Pre-presenta	ation of the i	ury related to board to									
-	display furni	ture accesso	ries, jury discussion and									
	inference											
Mode of												
examination												
Weightage	CA	MTE	FTF									
Distribution	60%	0	40%									
Toyt book/c*	0070	0	U/U									
 Other	Eurpituro do	cian- An Intr	aduction to Dovelopment									
Deferences	Materia	Is and Manuf	acturing									
References	- Stuart Lars	on Furnitur	e design hy lim Postell									

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										S 2	Beyond	1 Bound	aries
POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
COs													
CO1	3	3	1	2	1	2	3	1	2	2	3	2	1
CO2	1	3	3	3	1	2	-	2	2	3	3	1	1
CO3	3	2	2	2	-	2	3	1	2	2	2	3	2
CO4	3	2	2	3	1	2	3	1	2	2	3	1	1
CO5	3	2	2	3	2	2	3	2	2	-	2	3	2

2-Moderate (Medium)

3-Substantial (High



Scho	ool: SAP	Batch : 2020-2024	
Prog	gram: B.Des	Current Academic Year: 2022-2023	
Bran	nch:IPD	Semester: V	
1	Course Code	PDJ505	
2	Course Title	Materials & Processes - II	
3	Credits	3	
4	Contact Hours	0-1-2	
	(L-T-P)		
	Course Status	Compulsory	
5	Course Objective	This course aims at providing knowledge to the students	
		in various industrial manufacturing processes of different	
		advanced materials, e.g plastics (injection moulding,	
		blow moulding, roto moulding, etc) , carbon fibres ,	
		nanotechnology, biomaterials etc.	
6	Course Outcomes	After completion of this course, students will able to:	
		CO.1. learn the skill explore understand application of	
		various advanced materials in making a product.	
		CO.2. Develop understanding of various usages of	
		advanced materials, then advantages and shortcomings,	
		CO 3 Learn various processes involved in the	
		manufacturing of products in small scale and big scale units	
		CO4. Discern the forecast of the futuristic materials and	
		their applications related to upcoming innovation in	
		products.	
		CO5. Develop the hierarchy of different stages of processes	
		as per the nature of product	
7	Course Description	The course is designed to give students exposure of	
		various advanced materials, their manufacturing	
		processes, & practises and techniques.	
8	Outline syllabus		CO
	Unit 1	Introduction to Industrial Processes	CO1
	1	Research and study of Industrial Processes	
	2	Innovation and evolution on Industrial processes	
	3	Factory production	
	Unit 2	Case study-1	CO2
	1	Study of a particular product(s) in terms of its	
		manufacturing and application	



	2	Factory pro	duction of the p	product						
	3	Packaging	of the products a	and processes						
Unit 3		Case study	-2		CO1,					
					CO3,CO5					
	1	Study of a	oarticular produ	ct(s) in terms of its						
		manufactu	nanufacturing and application							
	2	Factory pro	actory production of the product							
		Packaging	ackaging of the products and processes							
Unit 4		Advanced	Material and pr	ocesses	CO3					
	1	Blanking, p	lanking, punching etc							
	2	Case study	ase study of sheet metal processes in application							
	3	Conclusion	and inferences							
Unit 5		Sustainable	e materials		CO1,CO5					
	1	Usage and	types							
	2	Sustainable	e packaging and	materials						
	3	Biodegrada	ble plastic and	oure metals						
		Jury/Viva								
Weightage		CA	MTE	ETE						
Distribution		60%	0%	40%						
Text book/s*		Manufactu								
		manufactu								
Other										
References										

2-Moderate (Medium)

3-Substantial (High

POs	РО	PO	PO	РО	PO	РО	PO	PO	PO	PSO	PSO	PSO	PSO
COs	1	2	3	4	5	6	7	8	9	1	2	3	4
CO1	2	1	2	2	1	1	1	1	2	1	2	2	1
CO2	1	1	1	2	3	1	1	1	1	1	1	2	1
CO3	2	1	3	1	2	1	1	1	1	1	2	1	2
CO4	2	1	3	2	1	3	1	2	1	1	2	1	3
CO5	2	3	2	1	2	3	2	3	1	3	1	2	3

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Scho	ool: SAP	Batch : 2020-2024					
Prog	ram: B.Design	Current Academic Year: 2022-2023					
Bran	ch:IPD	Semester: V					
1	Course Code	PDJ503					
2	Course Title	Digital -IV (Rhino & 3ds Max)					
3	Credits	3					
4	Contact Hours (L-T-P)	0-1-2					
	Course Status	Compulsory					
5	Course Objective Course Outcomes	 1-Interact using terminology relevant to product modelling and animation 2-2d Splines, shapes and compound objects 3-Use 3D software to create surface and parametric solid models. 4Apply maps and materials to 3D models and meshes 5-Simulation and effects 6-Setup a 3D scene including cameras and light 7-Render 3D scenes and animation Rendering with vray After completion of this course, students will able to: CO.1. learn Advance 3d software's CO.2. Grasp the concept of nurbs modelling. CO.3. Ability to create complex objects and their detailing in 3d along with the assembly CO.4. Integrate different components of products and render them in suitable rendering engines. CO5. Develop good visualization the product as commercially perceived model. 					
7	Course Description	This Program will lead students to 3D modelling and animation by addressing parametric assembly modelling, time and motion analysis, surface texturing, mapping, lighting, colour as necessary when creating computer renders, animation for marketing and manufacturing purposes.					
	Unit 1	Overview of 3Dsmax					
	1	Introduction to user interface, basic tools and geometry					
	2	Learning basic file exporting and saving.					
	3	Introduction to Large tool set.					
	Unit 2	Material application & Texturing and lighting					
	1	Working with Bitmaps.					



					2 Cre	eating r	new m	aterials	and th	neir app	lication.			
					3 Rei	ndering	g with [.]	texture	es.					
		Unit	: 3		Int	roduct	ion to	Basic t	ools ar	nd Plugi	ns.			CO2,CO4
					1 Ge	tting fa	miliar	with B	asic an	d Advan	ced plu	gins.		
					2 Wo	orking v	with pa	aramet	ers inv	olved.				
					3 Eff	ective a	applica	ition in	Mode	lling .				
		Unit	: 4		Ad	vanced	l Comr	nands	and pr	ocesses	•			CO1, CO3,CO4 ,CO5
					1 Ge	neratin	ng sect	ions an	d Eleva	ations.				
					2 Wo	orking v	with sc	ene se	ttings a	and cam	era.			
					3 Ma	aterial a	applica	tion us	ing uv	mappin	g.			
		Unit	: 5		Ad	vance	d Moo	delling						CO1,CO2 ,CO5
					1 Re	nderin	g eng	ines						
					2 An	imatio	n rela	ted to	produ	icts and	lassem	bly		
					3 Re	vision	of all t	the too	ols					
		Mod	le of		Jur	ry/Prac	ctical/	Viva						
		exar	ninatio	on										
		Wei	ghtage	ē	CA	L.	M	ГΕ		ETE				
	-	Dist	ributio	n	60	%	0%	, D		40%				
		Text	book	/s*	Au	todes	k 3DS	max 20)20 – I	Pradeep	o mamg	gain, Au	todesk	
					3d	S max	BIBLE	by Ke	ly Mu	rdock				
		Othe	er											
		Refe	erence	S										
POs	PO	PO	PO	PO	PO	PO	PO	PO	PO	PSO	PSO	PSO	PSO	
COS	1	2	3	4	5	6	/	8	9	1	2	3	4	
01	1	1	2	2	1	1	1	1	2	1	2	2	1	
CO2	1	1	1	2	3	1	1	1	1	1	1	2	1	
CO3	1	1	1	1	2	1	1	1	1	1	1	1	1	
CO4	2	1	3	2	1	3	1	2	1	1	2	1	3	
CO5	1	3	1	2	1	1	2	1	1	-	2	1	-	



Scho	ol: SAP	Batch : 2020-2024 UNIVERSITY									
Pro g	gram: B.Design	Current Academic Year: 2022-2023	oundaries								
Bran	ch: Industrial&	Semester: V									
Prod	luct Design										
2	Course Code	PDJ501									
3	Course Title	Industrial &product Design studio-IV									
4	Credits	12									
	Contact Hours	0-4-8									
	(L-T-P)										
5	Course Status										
6	Course Objective										
		1-They will be able to complex problems and research on									
		its viability and need for intervention.									
		2-It has been designed to make students take intensive									
		projects and make them understand the complete processes									
		from the basic sketch to the final prototype.									
		3-To equip the students to be able to shall be able to do the									
		critical analysis of the need for their product and current									
		To take students throughout the journey of design process									
		and implementation									
7	Course	After completion of this course, students will able to:									
	Outcomes	CO.1. Learn the art of conducting a detailed research and									
		then understand the problem with an unbiased thinking.									
		CO.2. Understand research techniques and do analysis for									
		the potential viability and need for the projects.									
		CO.3. Learn document the entire process along with the									
		progress in mock-ups and prototypes for the most									
		probable solution for the same.									
		CO.4 Train themselves to real problem solving on real									
		time based projects.									
		CO5. Polish their skill in seeing the product in the light of									
		entire design process.									
8	Course	Understanding the product function and response									
	Description	mapping and its significance .Pros and cons with									
		structural limitation, ergonomic & aesthetic aspects are									
		discussed in the design and construction respecting the									
		constraints of production and consumer usability									
	Outline syllabus		СО								
	2 2 2 2 2 2 3 7 1 3 7 1 2 3 7 1 2 3 7 1 3		Achievem								
			ent								
L			-								



Unit 1	Identificat	ion of problems	and Research	CO1,CO2,					
				CO3					
-	1 Researchin	g on problems c	n						
	2 Backgroun	d of the relevant	field						
	3 Identifying	the niche Area a	and Design Brief						
Unit 2	Concept a	nd Visualisation		CO1,CO2					
	1 Brainstorm	ning session and	Ideation						
	2 Ideation th	rough sketching	and Modelling						
	3 Design Thi	nking Exercises							
Unit 3	Conceptua	l Development		CO1,CO2,					
				CO4,CO5					
	1 Developm	ent of forms and	processes						
	2 Material fi	nalisation and te	chnology intervention						
	3 Finalisatio	n of forms and s	pecifications						
Unit 4	Model ma	Model making and prototyping							
	1 Modelling	Aodelling in foam							
	2 Detailing o								
	3 Painting ar	nd renderings							
Unit 5	Finalisatio	Finalisation and Presentation							
				CO3,CO5					
	1 Detailing in	n presentation							
	2 Compiling	all the nuances							
	3 Presentati	on of data equip	pped in different soft wares						
Mode of	JURY	JURY							
examination									
Weightage	Sub unit - a	a, b and c detaile	ed in Instructional Plan						
Distribution									
	Jury								
	CA	MTE	ETE						
	60%	0%	40%						
Text book/s*	The Design	of Everyday Things	by Don Norman,						
Other	her The Art of Innovation by Tom Kelley, Change by design by Tim								
References	Brown								



												- C - S	Beyo
POs	PO	PSO	PSO	PSO	PSO								
COs	1	2	3	4	5	6	7	8	9	1	2	3	4
CO1	2	1	2	-	1	1	1	1	1	1	1	2	2
CO2	3	1	-	2	1	-	2	1	1	1	-	2	3
CO3	1	2	3	1	1	1	3	1	1	1	1	1	2
CO4	1	-	-	3	-	2	-	-	1	-	1	2	-
CO5	2	1	2	1	2	1	1	2	1	2	2	1	2

2-Moderate (Medium)

3-Substantial (High)



SEMESTER 6



Scho	ool: SAP	Batch : 2020-2024	
Prog	ram: B. Design	Current Academic Year: 2023-2024	
Bran	ich: IPD	Semester:VI	
1	Course Code	PDJ602	
2	Course Title	Product Branding and Identity	
3	Credits	3	
4	Contact Hours	0-1-2	
	(L-T-P)		
	Course Status	Compulsory	
5	Course Objective	1. Students will build career and communication skills in	
		research/communication, project management and	
		teamwork, design and profession print production in	
		the field of graphic art communication using graphic	
		design software.	
		2. Students will learn how to develop a marketing plan	
		and how to build the brand management network that	
		supports it.	
		3. Students will create several projects using Adobe suit,	
		including Photoshop, Illustrator, InDesign, CorelDraw	
		and more, to create illustrations templates and print	
		materials. Students will review and refine content.	
		generate ready to print materials to build their	
		portfolio.	
		4 Main skills to be illustrated are: interview and address	
		questions and design for diverse audience &	
		requirements	
		5 Critical thinking that helps to establish and develop a	
		hrand	
		6 Design process and effective communication	
		7. Understanding and analysing teammates in a shared	
		onvironment	
		Creating a brand identity system	
		o. Creating a brand identity system.	
6	Course	After completion of this course, students will able to:	
	Outcomes	CO.1. Understand the several concepts which underpin	
		visual and graphic design.	
1			

				RDA
			CO.2. Learn different ways to create brand identity	
			products, such as logos, posters, advertisement	
			design and campaigns, greeting cards and others	
			that will be beneficial for personal or commercial	
			publishing.	
			CO 3 Understand what defines a product from others or	
			sets it apart	
			CO 4 Learn how and where to formulate brand strategy	
			CO.4. Learn now and where to formulate brand strategy,	
			consumer brief and product plan.	
			CO.5. Expertise in digital design and printing.	
7	Course			
	Description		Brand Identity Design includes the development of brand	
			identity design, theory and practice. A brand is	
			represented in a structure of physical tangible things	
			which drive the brands acknowledgement. Usually, such	
			products should have a clear identity that distinguishes	
			them or enables them to stand out of the pack of that on	
			the market brands.	
			This course focus is on learning brand strategy and what it	
			takes to be very unique. By learning how to design	
			projects like logos, print & digital advertising, documents,	
			business card that promote and reinforce the brand with	
0	Quitting and a hour		the assistance of multiple graphical application.	60
8	Outline syllabus	5		CO
				Achieven
	Unit 1		Introduction to Branding	
		1	Introduction to the course. requisites and learning	
			methods	
		2	Concept of brand merchandise- Use of product design	
			to tell a brand's story	
		3	Brand identity & it's elements, Consumer and their	
			needs	
	Unit 2		Case study	CO1,CO3,
				CO2
		1	Identify brand positioning statement	
		2	Study the brand story & storytelling method	
		3	Study the existing brand merchandise & future	CO6
			strategies- Build a visual case study	



		Unit	3		Pro	duct 8	k Tren	d stud	у					CO2,CO3
				1	a. Io	lentify	, prodi	uct cat	egori	es to de	sign- Bı	uild a pi	roduct	
					plar	ו								
				2	b. P	roduc	t trend	d study	/- buil	d trend	report			
				3	с. Р	roduct	: categ	gory st	udy- c	create ke	ey desig	gn elem	ents	
					libra	ary								
		Unit	4		Des	ign De	evelop	ment						CO3,CO4, CO5
				1	Dev	velop l	key co	ncepts	5					
				2	Dev	velop	concep	ots inte	o fina	l design:	5			
				3	Edi	t to fir	nalise							
		Unit	5		Fina	alisatio	on							CO4,CO5, CO6
				1	For	mat								
				2	Rea	align								
				3	Edi	t to co	mpile	prese	ntatio	n				
		Mode	e of		Jury	/Pract	tical/V	'iva						
		exam	inatio	n			-							
		Weig	htage		CA		MT	E		ETE				
		Distri	butior	<u>ו</u>	60%	/ D	0%			40%				
		Text	book/s	S*	- C	reating	a Brar	nd Iden	tity: A	Guide fo	or Desig	ners		
		Othe	r											
D Oa		Refer	ences											
PUS	1	2	2	РО 1	РО 5	PU 6	7	PU o	0	1	250	2	PSU 1	
CO1	2	1	2	4	ر 1	1	/	0	1	1	2 1	2	4	
01	2	-	2		1	-	-	-	-	-		2	2	
CO2	3	1	-	2	1	-	2	1	1	1	-	2	3	
603	1	2	3	1	1	1	3	1	1	1	1	1	2	
CO4	1	2	-	3	-	2	3	2	1	-	1	1	2	
CO5	2	3	2	3	3	2	1	2	3	3	1	2	3	
CO6	-	-	-	3	2	-	2	-	2	-	2	3	1	

Slight (Low) 2-Moderate (Medium) 3-Substantial (High)







Scho	ol: SAP	Batch : 2020-2024	
Prog	ram: B.Des	Current Academic Year: 2022-2023	
Bran	ch:IPD	Semester:6	
1	Course Code	PDJ603	
2	Course Title	Manufacturing & Assembly	
3	Credits	3	
4	Contact Hours	1-1-1	
	(L-T-P)		
	Course Status	Compulsory	
5	Course Objective	1. The course shall be able to introduce student	
		to various kind of assembly systems that are	
		prevalent in the industry, e.g- assembly line	
		manufacturing.	
		2. The course shall aim at developing	
		understanding among students about joinery	
		techniques employed to join various parts and	
		components of products.	
6	Course Outcomes	After completion of this course, students will able to:	
		CO.1. Familiar with common industrial assembly systems	
		& Joinery practises.	
		to make final products	
		CO3 Understand various manufacturing process of	
		products in mega and micro factories	
		CO4 Learn assembly of components of various products	
		in Design.	
		CO5. Prioritize the processes and assembly to efficiently	
		use time and performance.	
7	Course Description	The course is designed to give students exposure of	
		assembly processes & practises and techniques.	
8	Outline syllabus		CO
			Achieve
			ment
	Unit 1	Introduction to Manufacturing processes	CO1,CO5
	1	Basic Assembly and the principles	
	2	Heirarchy of assemblage	
	3	Equipment and tools used in Processes	
	Unit 2	Classification of assembly	CO1,CO2



	1	Literature s	study and their la	ab application	
	2	Factory visi	t		
	3	Factory visi	t complilation re	eport	
Unit 3		Common ir	ndustrial challer	ges and resolution	CO2,CO3
	1	Consumer	products		
	2	Heavy mac	hine products		
	3	Presentatio	on		
Unit 4		Assembly			CO1,CO4
	1	Understand	ding Assembly li	าย	
	2	Processes i	nvolved in asser	nbly of small products	
	3	Documenta	ation and presen	tation	
Unit 5		Compilatio	n and presentat	ion	CO1,CO5
	1	Compilation	n and discussion		
	2	Class intern	nal Juries-1		
	3	Class intern	nal Juries-2		
Mode of		Jury/Viva			
examination			1		
Weightage		CA	MTE	ETE	
Distribution		<mark>60%</mark>	<mark>0%</mark>	<mark>40%</mark>	
Text book/s*		_			
Other		MANUFACT	URING PROCES	S BY O.P.KHANNA, Design for	
References		manufactu	ring and asseml	bly by O.Molloy,S.Tilley and E.A	
		warman	5	, , ,, ,, ,, ,, ,,	

POs	РО	PSO	PSO	PSO	PSO								
COs	1	2	3	4	5	6	7	8	9	1	2	3	4
CO1	2	2	1	1	2	1	1	1	1	2	1	2	2
CO2	1	2	3	1	1	1	2	1	1	2	1	2	3
CO3	1	1	2	1	1	1	3	1	1	1	1	1	2
CO4	1	-	1	2	1	2	1	1	2	1	1	1	1
CO5	2	1	3	1	2	2	1	1	2	2	3	2	1

2-Moderate (Medium)

3-Substantial (High)



School: SAP		Batch : 2020-2024	
Prog	ram: B.Design	Current Academic Year:2022-2023	
Bran	ch:Industrial &	Semester: VI	
Prod	uct Design		
1	Course Code	PDJ604	
2	Course Title	Industrial & product Design studio-V	
3	Credits	12	
4	Contact Hours (L-T-P)	0-4-8	
	Course Status	Compulsory	
5	Course Objective	 Student be able to professionally engage themselves in designing prime mode of transportation and design different types of vehicles, e.g.; bike, car, bus, yacht, aeroplane and transportation related solutions. Individual become capable of reconciling aspects of design, strategy, aerodynamics, viability of production and aesthetics. The whole type of designer needs to have a good awareness of both the product and the features the customer is looking for, so that he can have a clear view of the relationship between design, development, innovation, marketing and trade criteria such as the popular trend as well as the economic structure against its operation 	
6	Course Outcomes	 Afet the completion of the course ,the students would be able to : CO.1. Learn to describe and draw on insights into current experience in the field. Compares to the dynamic issues and circumstances found in professional practice. CO.2. Implement ideas using creative Speech and Professional technical skills to overcome the company's planned innovative challenges 	

			RDA
		 CO.3. Take evaluations in the field of Transportation Design, guided by related technical, social and ethical concerns and use them to develop a concept for the next level project. CO4. Individual be able to recognise the need for further growth of knowledge and skills, and take ownership of independent learning. CO5. Design the product in entirety with respect to design and packaging as well. 	
7	Course Description	The course is divided into 3 parts in which current practice and work-related circumstances are discussed through the interpretation, review, discussion and experience of the realistic participation in professional design context. Practical experience is objectively contrasted with the design theory and throughout the time the student focus on their experiences. Direct mentoring and inspections assist the generation at the end of the course of a written report submission. In the Transport Design module, instruction focused on written assignments directs the student in the process of developing a plan for the thesis project. 1. Premature Reflections: The First stage consists of developing awareness around design practice and understanding it. Observations regarding organizational culture, personality, processes, tasks and practices encountered in the workplaces are collected in a written report and used as a personal reflection on their contribution to the student's actual creative task during the early stages. 2. Practice and Theory: The student can develop competencies and skills during this step of the course by doing design research and incorporating more perspectives from the course research and from the design experience. The consequence is a second piece	

				RDA
			3. Future Practice:	
			The final phase of the project is devoted to	
			completing the company's practice work and at	
			the same time focusing on the future of the field	
			of transportation design and the role of	
			designers in the industry and society. In the	
			uncoming thesis project the student's own	
			beliefs and motivation will then beln define and	
			convoy expectation and wishes for both	
			convey expectation and wishes for both	
			professional and relevant growth	
8	Outline syllabus			СО
				Achievem
				ent
	Unit 1		Identification of problems and Research	CO1,CO2
		1 (Complex problems and global research	
		2	Existing issues connected to the product and intangible	
		1	approach	
		3	Identifying the niche Area and Design Brief	601.000
	Unit 2	1	Concept and Visualisation	01,002
	-		Brainstorming session and ideation	
	4	۲ ۲	viability	
		2	Viduliity Design thinking hubble diagrams	
	Linit 3	, , ,	Concentual Development	CO3 CO5
		1	Development of forms and processes	003,005
	-	2	Material finalisation and technology intervention	
		3	Finalisation of forms and specifications	
	Unit 4		Model making and prototyping	CO1.CO2.
				CO3,CO4
		1	Modelling in materials like card board, Foam, MDF etc	,
	2	2	Detailing of Mock-ups and prototyping	
	3	3	Painting and renderings	
	Unit 5		Finalisation and Presentation	CO1,CO2,
				CO4,CO5
		1	Concept sheet with layers of detailing	
		2	Compilation of stories formed during fabrication	
		3	Presentation of Document along with virtual Model	
	Mode of	.	Jury	
	examination			



Weightage	CA	MTE	ETE	
Distribution	60%	0%	40%	
Text book/s*	-			
Other	The desigr	n for everyday	thing-Don Norman, Design for	
References	change –Ti	m Brown		

POs COs	P01	P02	PO3	P04	PO5	P06	P07	P08	60d	PSO1	PSO2	PSO3	PSO4
CO1	2	2	2	1	2	1	1	1	1	2	1	2	2
CO2	3	3	2	2	2	2	2	1	2	2	1	2	3
CO3	2	2	3	1	1	1	3	1	3	1	1	1	2
CO4	2	2	2	2	2	2	2	2	2	1	2	2	1
CO5	-	-	-	-	2	-	-	1	2	1	1	3	3



School: SAP	Batch : 2020-2024								
Program: B.Design	Current Academic Year: 2022-2023								
Branch:Common	emester: VI								
L Course Code	PDJ603								
2 Course Title	Applied ergonomics and sensory awareness								
3 Credits	β								
Contact Hours	0-1-2								
L-T-P)									
Course Type	Compulsory								
S Course Objective	 To make students learn about the ergonomics related to products. The students will develop a better sense of understanding of interaction of humans with machines and how it can be made more interactive and easier. The students shall understand the basics of user interface and experience design involved in the field of product design. To study and understand the relevance of electronics involved in field of design. 								
5 Course Dutcomes	After the completion of the course ,students will be able to : CO1 Learn to connect machines with humans more efficiently and productively. CO2 Understand the technology involved in the electronics art of the technology to create more efficient user experience. CO3 Innovate better in the field of interactive digital products CO4 Create products more human friendly and intuitive to human nature. CO5. Learn and Identify the adaptability of consumers in today's social environment.								
7 Course	The course is intended to give students a glimpse of user interface and user								
Description	experience with the basics of technology involved in creating digital products. They shall also be able to understand the ergonomics related in tangible products or services.								
3 Dutline syllabus	L CO Mapping								
U/SAP/B. Desian	-IPD 63								

		s	SHARDA
Jnit 1		Inderstanding Ergonomics in products	C01,CO2,CO4
	1	Understanding usability of products	
	2	Interaction of products with respect to	
		interface	
	3	Exercises on product usability	
Jnit 2		Inderstanding human Anatomy with respect to	C01,CO2
		products	
	1	luman anatomy and measurements	
	2	Anthropometric study	
	3	Jnderstanding human interaction	
Unit 3		Case Study -1	CO1,CO2,CO3
	1	Taking various products and their analysis	
	2	Jnderstanding human cognition	
	3	Discussion and presentations -1	
Jnit 4		Case Study -2	C01,CO2,CO3
A		Taking various products and their analysis	
В		Relation of products with human anatomy.	
-		Discussion and presentations -1	
Jnit 5		Designing a well ergonomic based product regarding a	CO3,CO4,CO5
		problem	
	1	Concept and brainstorming	
	2	Concept Development	
	3	resentations and Discussions / Internal Jury	

				SHARDA UNIVERSITY
Mode of	Theory			
examination				
Weightage	CA	МТЕ	ΤE	
Distribution	30%	20%	50%	
Text book/s*	Contemporary Anderson, intr	vergonomics a oduction to er		
Other References				

POs	PO	PSO	PSO	PSO	PSO								
COs	1	2	3	4	5	6	7	8	9	1	2	3	4
CO1	1		2	1	2	2	1	2	2	1	2	2	1
CO2	1	2	3		2	3	1	2	3	1		3	1
CO3	1	1	-	1	1	2	1	-	2	-	1	2	1
CO4	-	1	-	2	-	2	1	2	3		2	1	-
CO5	1	2	-	1	-	3		1	2	3	-	-	2

- 1. Slight (Low)
- 2. Moderate (Medium)
- 3. Substantial (High)



School: SAP		Batch : 2020-2024						
Program: B.Des		Current Academic Year:						
Branch: IPD		Semester: VI						
1	Course Code	PDJ607						
2	Course Title	Digital - V (Rhino & solid works)						
3	Credits	3						
4	Contact Hours (L-T-P)	0-1-2						
	Course Status	Compulsory						
5	Course Objective	 Interact using terminology relevant to product modelling and animation 2d Splines, shapes and compound objects Use 3D software to create surface and parametric solid models. Apply maps and materials to 3D models and meshes Simulation and effects Setup a 3D scene including cameras and light 						
		7. Render 3D scenes and animation						
		8. Rendering with vray						
6	Course Outcomes	After completion of the course , the students will be able to: CO.1. Learn Advance 3d software like solidworks in compliance for Industrial production. CO.2. Able to make 3ds of various components of engines and arts in sync with manufacturing processes. CO.3. Create complex objects and their detailing in 3d along with the assembly in solidworks CO.4. Integrate different components of products and render them in suitable rendering engines. CO5. Able to understand the advanced use of the advanced tools for better communication.						
7	Course Description	This Program will lead students to 3D modelling and animation by addressing parametric assembly modelling, time and motion analysis, surface texturing, mapping, lighting, colour as necessary when creating computer						

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		renders, animation for marketing and manufacturing												
				pı	purposes.									
•	0.11		- la										60	
8	Outin	he syli	abus											CU Achiovo
														Achieve
	L Init '	1		۸d	Advanced Modelling in Phino									
	Unit	L	1	Rac	avanced ividdelling in Knino									01,002
			<u>ר</u> ז	Ling	sasic tools for geometric snapes									
			2			tod to		ietiyi irf			11115			
	Linit '	2	5	Sur	face		ling							CO2 CO4
	Onit	_	1	Sur	face n	nodell	inσ							02,004
			2	Imr	ortan	re of	nurhs	mode	lling a	nd thei	r releva	ance		
			2	Toc	ols rela	ted to		nlex si	irface		TICICV			
	Unit	3		Adv	ance		lelling		arrace	5.				
	Unit	-	1	Rer	derin	g in Rl	nino							
			2	Intr	oduct	ion to	grass	hopp	er					
		3 Rendering in various contexts												
	Unit	4		Intr	Introduction to Solid works									CO1.
														, CO3,CO5
	1 Basic tools in solid works and geometry													
			2	Ass	embly	of dif	ferent	t com	oonen	ts				
	3 Colour, texture and compatibility with machines in													
				ind	industry.									
	Unit	5		٨d	Advanced Modelling									CO1,CO2
														,CO5
			1	Rer	Rendering in solidworks									
			2	Intr	Introduction to grass hopper									
			3	Rendering in various contexts										
	Mode of Jury/Practical/Viva													
	examination													
	WeightageCAMTEETE													
	Distribution 60% 0% 40%													
	Text book/s* -													
	Other Machine simulating using Solid works-Kuang							luang F	luang c					
	Reter	ences Kninoceros 3D excercises-sachidanand Jha												
POs	P						PSO							
COS		2	3	4	5	6	/	8	9		2	3	4	
CO1	1 2	1	1	1	ר ר	2	1	2	1	ר ר	1		1	-
01									1	J				
] S] ប្រ		RDA RSITY
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CO2	2	1	-	1	1	-	3	2	-		3	-	1	
CO3	1	1	2	1	1	1	2	1	-	1	-	1	1	
CO4	1	-	1	-	2	3	-	2	1	-	3	-	3	
CO5	2	1	2	1	3	1	-	3	2	2	-	2	2	



School: SAP		Batch : 2020-24					
Prog	gram:	Current Academic Year	: 2020 - 21				
M.D	esign						
Brar	nch:Common	Semester: VI					
1	Course Code	IDJ601					
2	Course Title	Research & Methodology					
3	Credits	4					
4	Contact	0-2-2					
	Hours						
	(L-T-P)						
	Course Type	Compulsory					
5	Course Objective	The focus of this course is not on mastery of statistic to use research in the Design environment.	cs but on the ability				
6	Course Outcomes	After completion of this course, student will able to: CO1:Develop a hypothesis, a research problem and related questin CO2: Frame the problem with the correct research methodology CO3:Collect accurate data to addresses the research problem CO4: Use the data to make decisions CO5: Create a effective research proposals CO6: analyse the data collected from various sources.					
7	Course Description	To develop an understanding among students about important concepts of research design, data collecti interpretative analysis, and final report presentatior	t an overview of the on, statistical and n.				
8	Outline syllabu	S	CO Mapping				
	Unit 1	INTRODUCTION	CO1, CO2				
	A	Foundations of Research: Meaning, Objectives, Motivation, Utility					
	В	Concept of theory, empiricism, deductive and inductive theory					
	C	Characteristics of scientific method – Understanding the language of research – Concept, Construct, Definition, Variable. Research Process					
	Unit 2	PROBLEM IDENTIFICATION AND HYPOTHESIS GENERATION	CO1, CO3				
	A	Problem Identification & Formulation and Measurement Issues					
	В	Hypothesis – Qualities of a good Hypothesis –Null Hypothesis & Alternative Hypothesis.					
	С	Hypothesis Testing – Logic & Importance					

			<u> </u>	SHARDA UNIVERSITY					
Unit 3	RESEARCH DE	SIGN		CO2,CO3,CO4,CO5,					
A	Research Des Research – Fe	ign: Concept eatures of a g	and Importance in good research design						
В	Exploratory R uses, Descript and uses. Independent	Research Des tive Research Experimenta & Dependen	ign – concept, types and Designs–concept, types Design: Concept of t variables.						
С	Qualitative and research – (measurement and Merging	nd Quantitat Quantitative t, causality, g the two app	ive Research: Qualitative research – Concept of generalization, replication roaches.						
Unit 4	SAMPLING			CO2,CO3 CO4,CO5,CO6					
A	Measuremen measured? Pi Validity and F – Nominal, O	t: Concept o roblems in m Reliability an rdinal, Interv	f measurement– what is easurement in research – d Levels of measurement al, Ratio.						
В	Sampling: Concepts of Statistical Population, Sample, Sampling Frame, Sampling Error, Sample Size, Non Response. Characteristics of a good sample. Probability Sample – Simple Random Sample, Systematic Sample, Stratified Random								
С	Determining consideration	size of the sa	mple – Practical g and sample size						
Unit 5	DATA ANALYS	SIS AND INTE	RPRITATION	CO3,CO4, CO5,CO6					
A	Data Analysis analysis (freq percentages	: Data Prepa uency tables	ration – Univariate , bar charts, pie charts,						
В	Bivariate Ana square test in association.	lysis – Cross Icluding testi	tabulations and Chi- ng hypothesis of						
С									
Mode of examination	Jury	<u> </u>							
Weightage	CA	MTE	ETE						
Distribution	60%		40%						



		 	0 0 0	 1 1 6 3
Text book/s*	1.Research Methodology – C. R. Kothari			
	2. Business Research Methods – Donald Cooper &			
	Pamela Schindler, TMGH, 9th edition.			
	3. Business Research Methods – Alan Bryman &			
	Emma Bell, Oxford University Press.			
Other				
References				

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
COs													
CO1	2	3	-	3	-	2	2	-	2	3	2	3	3
CO2	3	-	3	-	2	2	1	-	3	2	3	2	2
CO3	2	3	-	3	-	2	2	1	-	3	2	-	2
CO4	1	2	3	-	2	2	1	-	3	2	3	2	2
CO5	3	2	2	-	2	2	1	-	2	-	2	2	1
CO6	-	2	2	1	-	2	2	1	-	2	2	3	-

2-Moderate (Medium)



SEMESTER VII

		SHA	ARDA
Bra	nch: IPD	Semester:VII 🚺 UNIV	ERSITY
1	Course Code	TIP701	
2	Course Title	Intellectual Property Rights	
3	Credits	3	
4	Contact Hours (L-T-P)	3-0-0	
	Course Status	Compulsory	
5	Course Objective	 Introducing important aspects of intellectual property rights to students who will pay a key role in the creation and development of creative industrial projects. Spread patent information, patent laws in India and overseas, and details of registration. Publicizing information about copy rights and their associated rights and aspects of registration. Propagating data on trademarks and elements with registration. Collate technical understanding on design, regional acknowledgement, new design protection and ways of registration. Latest trends in IPR and Government measures to promote IPR. 	
6	Course Outcomes	After completion of this course, student will able to: CO.1. Understand the basic Concept of Intellectual Property Right CO2: Criteria for obtaining patent & elements of patentability (Novelty, Inventive steps, Utility) CO3: Copyright Registration methods & Nature of Copyright (Sentence construction, Creative work) CO4: Concept of trademark (Various types of tags, brand names, badges, signature, logo, product mark, recognition tags) CO5: Understand the Industrial Application (Non patentable subjects, Eligibility to patent). CO6: Process of patenting and acts involved (sanctions & Penalties Copyright procedure).	
7	Course		
	Description	This program covers the legal strategy relevant to intellectual property and innovation for early stage Design project. The development cycle of the Design start-ups	

		SHA UNIV	RDA
		from invention and early evaluation, through incorporation and product creation, across production and massive funding. The structure for evaluating the legal strategy of intellectual property and innovation behind the development and implementation of a successful & quantifiable business plan. Via this approach, this program will clearly provide a summary of multiple areas substantive law, that include patent, copyright, trademark, trade secret, contract, competition, marketing, advertisement, incorporation and capital. This program aims to define and examine the technical information that is used to protect and create open standards.	
8	Outline syllabus		CO Achievem ent
	Unit 1	Introduction to IPR	CO3
		Copyrights , patents , ID rights	
		2 Differences and similarities	
		3 Applications	
	Unit 2	Understanding Design protection	CO2
		I IPR famous cases and conflicts	
		2 To write the cases technically	
		B Design Rights	
	Unit 3	Understanding Trademarks	
		Relevance of trademarks	
		2 Usage and its limitations	
		Presentations and Discussions	
	Unit 4	Famous cases and suites	CO1,CO2
		Yamaha and TVS IPR Case	
		2 Apple and Samsung case	
		B Comparison and discussion	
	Unit 5	Possibilities in IPR	CO4, CO5,CO6
		Patenting process	
		2 Filing in IPR	
		Formalities, requirements and costing involved	
	Mode of examination	Theory	
		CA MTE ETE	



Weightage	30%	20%	50%						
Distribution									
Text book/s*	-								
Other	Intellectua	Intellectual Propert Rights in India-Lexis Nexis							
References									

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
COs													
CO1	1	1	2	2	1	3	1	1	2	1	-	2	2
CO2	3	1	-	-	1	1	2	1	1	-	-	2	3
CO3	1	2	3	1	2	-	3	-	-	1	1	1	2
CO4	2	1	1	2	1	-	1	2	3	1	1	2	2
CO5	1	2	3	1	3	-	1	-	3	-	-	1	3
CO6	3	2	2	1	-	2	2	3	-	3	2	2	1

2-Moderate (Medium)



		Batch : 2020-2024	
Pro	gram: B.Des	Current Academic Year: 2021	
Bra	nch:IPD	Semester: VII	
1	Course Code		
2	Course Title	Indian Arts and Crafts in Design Industry	
3	Credits	3	
4	Contact Hours	0-1-2	
	(L-T-P)		
	Course Status	Compulsory	
5	Course Objective		
		1-This course is to develop to engage students	
		of design in uplifting Indian arts and crafts.	
		2-The course aims to help the diminishing art	
		and Craft Industry by successful collaboration	
		of Designers with the craftsmen of the country	
		3-The course aims create a win-win situation	
		for both the designers and Craftsmen for their	
		sustenance and bring life back to the old	
		traditional craft sector of the country	
6	Course Outcomes	The students will be able to:	
		CO.1.Gather various old traditional crafts of	
		the country and interact with them, their	
		lifestyle and skills they possess.	
		CO.2.Collaborate with the craftsmen and	
		utilize their untapped skills for creating	
		products catering to modern world	
		problems.	
		CO.3. Understand existing businesses and	
		their successful operation which are	
		engaged with the craft sector of the country	
		CO.4 Intervene in various craft sectors as per	
		their capabilities and enhance their craft	
		skills, process or production.	
		CO.5.Uplift crafts as a business and tradition	
		and help the society at large to sustain the	
		diminishing craft sector	

		SI SI	HARDA
		CO.6.Create a successful business model for	
		craftsmen and espouse them to scale the	
		businesses.	
7	Course Descripti	on	
		The course is designed to bring in senses of	
		responsibility in the students design to uplift	
		the craft industry and collaborate with the	
		craft industry to solve real life modern	
		problems	
8	Outline syllabus		СО
			Achievement
	Unit 1	Introduction to Arts, Craft and Tradition	CO1
	A	Learning Traditional Art forms and Crafts	
	В	Understanding arts and history associated with it	
	С	Documentation of arts and tradition as art of the	
		culture	
	Unit 2	Understanding craftsmen, craft, skills and Lifestyle	CO1,CO2
	Α	Documentation of Crafts and Identifying Areas of	
		Intervention for Designers	
	В	Understanding skills and the process.	
	С	Understanding Lifestyle of Craftsmen and their	
		potential and Limitations	
	Unit 3	The Design Intervention.	CO3,CO4
	А	Documentation of possible areas of Intervention	
	В	Brainstorming over skills, process, production etc	
<u> </u>	С	Identifying the Niche and brainstorm over ideas and	
		plan	
	Unit 4	Design and Development and market strategy.	CO6
	А	Development of Design, products or range	
	В	Understanding Audience, Market and range	
	С	Developing a market strategy and area of expertise.	
	Unit 5	Sales, Marketing and Sustainable system	CO5,CO6
	А	Learns all the other aspects to launch, market and creating	
		a sustainable business around it.	
	В	Creating a platform or system of Design, production,	
L		market and logistics.	
	C	Learning Automation In business and creative Industry	



Mode of	Jury /Viva					
examination						
Weightage	CA	MTE	ETE			
Distribution	<mark>60%</mark>	<mark>0%</mark>	<mark>40%</mark>			
Text book/s*	-					
Other	Exploring the Craft					
References	–E.B Havell					

POs COs	P01	PO2	PO3	PO4	PO5	P06	P07	PO8	60d	PSO1	PSO2	PSO3	PSO4
CO1	2	2	2	1	2	1	1	1	1	2	1	2	2
CO2	S	3	2	2	2	2	2	1	2	2	1	2	3
CO3	2	2	3	1	1	1	3	1	3	1	1	1	2
CO4	2	2	2	2	2	2	2	2	2	1	2	2	1
CO5	-	-	-	-	2	-	-	1	2	1	1	3	3
CO6	-	-	3	-	1	-	-	1	3	1	2	3	3



Scho	ool: SAP	Batch : 2020-2024	
Prog	ram: B.Design	Current Academic Year: 2023-2024	
Bran	ch: Industrial &	Semester :VII	
Proc	luct Design		
1	Course Code	PDJ702	
2	Course Title	Industrial & product Design studio-VI (Product)	
3	Credits	12	
4	Contact Hours (L-T-P)	0-4-8	
	Course Status	Compulsory	
5	Course Objective	 The students shall be able to gather real life issues and problems existed in the society and research on its viability and need for intervention. It has been objectified to make students take projects and make them understand the complete processes from the basic sketch to the final prototype. Critical analysis of the need for their product and current trend waving across the market. Learn the documentation of the complete process and learn presentation techniques to pitch their ideas to the potential companies and clients. Harmonize product design by digital interfaces. 	
6	Course Outcomes	After the completion of the course ,the students will be CO.1. Research on real life problems and their documentation. CO.2. Explore innovative solutions for the products relevant to industries CO.3. stylise the existing products with respect to brand guidelines and their design elements. CO.4 Real problem solving on real time based projects. CO.5 Able to practically simulate in the research mapping to filter out the commercial product.	



7	Course Description									
	•	The cours	e is designed to	make students research for						
		issues and								
		solving w								
		It will incl								
		crazy idea								
		with vario								
8	Outline syllabus		СО							
					Achievem					
					ent					
	Unit 1	Identificati	Identification of problems and Research							
	1	Researchin	g on problems a	ind issues						
	2 Background of the relevant field									
	3	Identifying	the niche Area	and Design Brief						
	Unit 2	Concept ar	nd Visualisation		CO1, CO2					
	1 Brainstorming session and Ideation									
	2 Ideation through sketching and Modelling									
	3	Design Thir								
	Unit 3	Conceptual Development								
	1	Developme	ent of forms and	processes						
	2	Material fir	nalisation and te	chnology intervention						
	3	Finalisatior								
	Unit 4	Model mal	CO1,							
					CO2,CO3,					
					CO4					
	1	Modelling	in foam							
	2	Detailing o	f Mock-ups and	prototyping						
	3	Painting an	d renderings							
	Unit 5	Finalisatio	n and Presentat	ion	CO1, CO5					
	1	Detailing in	presentation							
	2	Compiling	all the nuances							
	3	3 Presentation of data equipped in different soft wares								
	Mode of	Jury								
	examination									
	Weightage	CA								
	Distribution	60% 0% 40%								
	Text book/s* -									
	Other	Change wit								
	References									



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PO1	Ρ	PO	PO	PO	PO	PO	PO	PO	PSO	PSO	PSO	PSO
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	2											
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3	1	3	1	1	2	1	2	1	1	1	3	1
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3	-	1	2	2	1	1	-	1	3	-	-	2
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2-Moderate (Medium)

		SF UN	IARDA
Scho	ool: SAP	Batch : 2020-24	
Prog	ram: B.Design	Current Academic Year: 2019-20	
Brar	nch: IPD	Semester: VII	
1	Course Code	JIP711	
2	Course Title	Portfolio	
3	Credits	3	
4	Contact Hours	3(0-1-2)	
		Compulson	
5	Course Status	The subject sime to develop contemporary perticitie	
		practices and enables students to create portfolios that serve as both evolving collections of creative solutions to design problems and evidence of their abilities to visually relay messages. It teaches to how to create not just a collection of design work but a unique marketing tool for a successful design career.	
6	Course Outcomes	After completion of this course, student will able to: CO1: Understand the methods to present their designs, skill sets, and creativity CO2: Focus on both Logical and Creative Design Solutions CO3: Develop a Portfolio including entire concept and final design CO4: Familiarize with different Layouts , and other methods of presentation in detail as per the Industry standards CO5: Present the work in a systematic, sequential and logical manner.	
7	Course Description	This course will introduce the students with various techniques of presenting their works from concept to Finished Products.	
8	Outline syllabus		CO Achievement
	Unit 1	The Portfolio : Introduction	
		1a.Understanding the meaning and Need of Portfolio Development	CO1
		1b.The Design Sketch: Exploring the History of Style	CO1
		1c.Collection of works done in previous years	CO1
<u> </u>	Unit 2	Organizing and Content Development	
		2a.Building up a Profile/Resume based on your skill and current market trends	CO1



																oundar	165
					2b.Cur	D.Curation of Works and creating Storage Bank to upport the Portfolio development											
					suppor			rttoll	o deve		ent		of the o		<u> </u>	<u></u>	
					2c. The	Desi	ign J	Journ			ep the	WORKS	of the)2	
					past ar		ippo din a			Deve	lopme	nt					
	Ur	111 3				stand		g the	Narke	et/Cus	tomer		+ 10 0		<u> </u>	<u></u>	
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	Ur	nit 5			Presen	tatio	5 1 10 5 n 8	Lav	outs		0000						
					Lavout	ing c	of no	ortfol	io and	l also i	n Digit	al form	at for		CO4		
					device	s											
					5b.Und	lerst	and	ling P	latfor	ms to s	showc	ase woi	rks		CC)4	
					5c.The Portfolio Projects										CC)4,CO5	
	M	ode of															
	ex	amina	tion														
	W	eight a	age		CA MTE					ETE							
	Di	stribut	ion		60% 0% 40%												
	Те	xt boo	k/s*														
	Ot	her			1.												
	Re	ferenc	ces			_			-				-				
	POs	PO1	PO2	PC	93 PO4	PO	5	PO6	PO7	PO8	PO9	PSO1	PSO2	PS	03	PSO4	
	COs																
	CO1	2	1	2	2	1		1	2	1	3	2	1		2	2	
ľ	CO2	3	1	1	. 2	3		-	2	2	1	1	2	2	2	3	
ľ	CO3 3 2				1	1		3	3	1	1	3	2	:	1	2	
	CO4	2	2	1	. 2	1		1	1	2	3	1	2	2	2	2	
	CO5	-	-	1	. –	1		1	1	3	1	1	-	1	1	2	
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2-Moderate (Medium)



Scho	ool: SAP	Batch : 2020-24								
Prog	gram:	Current Academic Year: 2020-21								
B. D	esign									
Bran	nch: Common	Semester: VII								
1	Course Code	JIP710								
2	Course Title	Dissertation								
3	Credits	6								
4	Contact	0-2-4								
	Hours									
	(L-T-P)									
	Course Type	Compulsory								
5	Course	The need of this supplementary subject is to make the students to do								
	Objective	the research work lingering about the Practices, technology, Traits and								
		To stimulate art appreciation and development of aesthetic								
		sense.								
		Io introduce vernacular art and craft forms.								
		 To introduce a sense of exploration, research and 								
		documentation.								
6	Course	After completion of this course, student will able to:								
	Outcomes	CO1: Develop a hypothesis, a research problem and related questions								
		CO2: Frame the problem with the correct research methodology								
		CO3: Collect accurate data to addresses the research problem								
		CO4: Use the data to make decisions								
		COS: Create an effective research proposals								
7	Courso	COD: Evaluating the issues of lighting in a particular space.								
'	Description	may be historic or contemporary								
	Description	The Topics to be taken will be from the following Field:-								
		 Particular Art / Craft form belonging to a specific region / period. 								
		 School of thought in India/ abroad 								
		 The effect of artwork in the interior of any real Project 								
		Any Art Movement and its offects on interior design of then are								
		• Any Art Movement and its effects of interior design of their era.								
		• Effect of any new design and its interior in any old campus (i.e. a								
		new coffee house in Sharda campus)								
		 Viability study of any new technology on interiors (i.e. 								
		naturalistic lighting for user wellbeing)								
		 Analysis of different interior styles/ theme on a single Project 								
		(i.e. Fast Casual, Family Style, Fine Dining, Café or Bistro, Fast								
1	1									

		<u>.</u>	SHARDA UNIVERSITY							
		Food, Food Truck, Restaurant Buffet, Pop-Up	Restaurant styles/							
		design themes and analysis of the overall final look of the								
		restaurant)								
		 Research works about any practicing interior designer's life, 								
		works and philosophy.								
		 Research about the relation of the different r 	performing art							
		forms and their relations/ effects on interior	design (i e							
		Choreography and interior design: using perf	ormance							
		to recipie and interior design, using per	ormance							
	A . H	terminology to describe interior experience.)								
8	Outline syllabu		CO Mapping							
	Unit 1	INTRODUCTION	CO1, CO2							
	A	Foundations of Dissertation: Meaning, Objectives,								
	6	Motivation, Utility								
	В	Need of the Dissertation								
	C	Characteristics of scientific method for								
		dissertation– Understanding the language of								
		dissertation research – Concept, Construct,								
		Definition, Variable. Research Process	601 602							
	Unit 2	PROBLEM IDENTIFICATION AND HYPOTHESIS	CO1, CO3							
	^	Broblem Identification & Formulation and Issues								
	A	Study identification or Uppethosic								
	В	Study Identification of Hypothesis								
		APPROVAL OF THE DISSERTATION TOPIC	02,003,004,005,							
	A D	Studying and data collection of various aspects of								
	D	the dissertation study.								
	С	Collected data analysis for the sake of dissertation								
		topic approval								
	Unit 4	FRAMING THE DISSERTATION/ PREPARATION OF	CO2,CO3							
		REPORT	CO4,CO5,CO6							
	А	Framing the Dissertation Chapters								
	В	Identifying the chapters of study								
	С	Study the different styles of Report Writing – APA								
		Style, Chicago Style etc.								
		Referencing and bibliography								
		Footnotes and citations								
	Unit 5	DATA ANALYSIS AND INTERPRITATION	CO3,CO4,							
		DISSERTATION CONCLUSION	CO5,CO6							

			4	SHARDA UNIVERSITY				
А	Finalization	of Data Analy	vsis: Data Preparation –					
	for putting t	hese in the d	issertation report					
В	Bivariate An	alysis – Cross	tabulations and Chi-					
	square test i	ncluding test	ing hypothesis of					
	dissertation							
С	Interpretatio	on of hypothe	esis and conclusion					
	through Effe	ctive report	writing.					
Mode of	Viva voce							
examination								
Weightage	CA	MTE	ETE					
Distribution	30%	20%	50%					
Text book/s*	1. Research	Methodology	/ – C.R. Kothari					
	2. Business F	Research Met	thods – Donald Cooper &					
	Pamela Schi	Pamela Schindler, TMGH, 9th edition.						
	3. Business F	Research Met	thods – Alan Bryman &					
	Emma Bell, (Oxford Unive	rsity Press.					
Other								
References								

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4
COs													
CO1	2	3		3		2	2		2	3	2	3	3
CO2	3		3		2	2	1		3	2	3	2	2
CO3	2	3		3		2	2	1		3	2	-	2
CO4	1	2	3		2	2	1		3	2	3	2	2
CO5	3	2	2		2	2	1		2		2	2	1
CO6		2	2	1		2	2	1		2	2	3	

2-Moderate (Medium)



SEMESTER VIII



Scho	ool: SAP	Batch : 2020-2024								
Prog B.DE	gram: ESIGN	Current Academic Year: 2020								
Brar	nch: Interior	Semester: VIII								
Desi	ign									
1	Course Code	PDJ801								
2	Course Title	Graduation Project								
3	Credits	12								
4	Contact	0-4-8								
	Hours									
	(L-T-P)									
	Course Type	Compulsory								
5	Course	To provides student the opportunity to propose and	manage a faculty							
	Objective	approved self-initiated design project with appropria	ite focus, inquiry,							
	-	documentation, execution and presentation								
6	Course	The student will be able to :								
	Outcomes	CO1. Understand the complete an in-depth conceptua	lization and							
		presentation.	ning docign and							
		whole design process involves								
		CO3. Learn research methods. innovation. code compliance.								
		sustainability services & Estimation etc	pliance,							
		CO4 . Will be able to Gauge and imbibe the prevalent	trends and							
		forecast								
		CO5. Understand the complexity and coordination between	en Concept & Final							
		presentation.								
7	Course	Students in this course advance their design skills to	Students in this course advance their design skills to meet the challenge							
	Description	of a complex project. Selecting both client and project	ct, students							
		complete an in-depth precedent study, code and bui	lding analysis, user							
		assessment, programming, conceptualization and pro	esentation.							
8	Outline syllabu	IS	CO Mapping							
	Unit 1	Design Brief	CO1,CO2							
	А	Introduction to the project along with preparation								
		of its requirements and related components, user								
		preferences, user profile								
	B Preparation of requirements in terms of product									
		Intervention of the need of the sustant its								
	C Identification of the need of the project, its									
		benefits and expected outcomes for laying a better								
	Unit 2	Research/Case study/Forecast/Product analysis	C01.C02							
L		nessaring case stady, i or clast, i rodatt analysis	001,002							

				SHARDA UNIVERSITY
А	Investigation	of the topic-re	elated information,	
	technical terr	ninology, guid	lelines, learning from	
	the past tren	ds and forecas	sting the futuristic	
	approach			
В	Study of exist	ing subject-re		
	shortcomings	s, potentials, a	rea programs etc. For	
	formation of	a more sound	itinerary for the new	
	project			
С	Examining th	e Product area	a, its	
	competition,	differentian in	design and market	
Unit 3	Conceptual d	lesign		CO1,CO2,CO3
А	Spatial plann	ing and zoning	g for a better	
	understandin	g of inter-con	nection of spaces	
В	Working out	the functional	aspects, circulation,	
	overall flow o	of activities fro	om the entrance to all	
	the connecte	d spaces, dire	ctly or indirectly	
С	Figurative pla	nning showin	g basic components of	
	design and p	reliminary spe	cifications.	
Unit 4	Design Devel	opment		CO1,CO2,CO3,CO4
А	Detailed plan	s with worked	l out specifications,	
	material with	dimensions		
В	Plans of vario	ous services su	ch electrical, plumbing,	
	RCPs, lighting	g design, HVAC	Cetc.	
С	Estimation of	the project.		
Unit 5	Final present	ation		CO1,CO2, CO3 CO4
А	Presentation	design drawir	igs with colour codes.	
	complete wit	h relevant tex	tures. hatch. line	
	weights, dim	ensions and no	omenclature	
В	Three dimens	sional views of	f spaces and well-	
_	rendered ele	vations. sectio	ons and other relevant	
	drawings.	,		
С	Three-dimen			
	showing over	all flow explai		
	scheme in de			
Mode of	Jury			
examination	,			
Weightage	CA	MTE	ETE	
Distribution	60%	0%	40%	
Text book/s*				



										-	в	eyono a	oundar	1.6
Other														
References														
POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	PSO4	
COs														
C01	2	1	2	2	1	1	2	1	3	2	1	2	2	
CO2	3	1	1	2	3	-	2	2	1	1	2	2	3	
CO3	3	2	3	-	1	3	3	1	1	3	2	1	2	
CO4	2	2	1	2	1	1	1	2	3	1	2	2	2	
CO5	1	3	2	3	2	-	2	1	2	3	-	2	-	1



Scho	ol: SAP	Batch : 2020-2024	
Prog	ram: B.Design	Current Academic Year: 2023-2024	
Bran	ch: Industrial &	Semester :VIII	
Prod	uct Design		
1	Course Code	PDJ802	
2	Course Title	INTERNSHIP	
3	Credits	10 (NGPA)	
4	Contact Hours	0-2-8	
	(L-I-P)	Compulsory	
5	Course Objective		
5		 To get an industry and market exposure. To become industry oriented and learn to work under peer pressure of deadline and quality work. Develop the entrepreneur skills 	
6	Course Outcomes	The students will be able to	
		 CO.1. Work under real life projects with existing design companies. CO.2. Explain the importance of product creation and plans and use a more conventional methods of handling concepts and criteria, use creative sketching tactics to convey ideas, schedule, execute and present a design project. CO.3. Involved in the entire process for initiation to the execution of the projects. CO4. Get real time exposure from the industry. CO5. Understand the detailing art of the projects along with the entrepreurship skills. 	
7	Course Description	The course is designed to make students research for issues and problems about the society and do a problem	

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		solving with their analytical and out of the box thinking.							
		It will include	It will include various brainstorming sessions to bring						
		crazy ideas an	crazy ideas and then turn them into sensible products						
		with various d	with various developments to it.						
8	Outline syllabus					СО			
						Achievem			
						ent			
	Unit 1	Internship	Internship						
			CO2,						
			CO3, CO4						
	Unit 2								
	Unit 3	Internship							
	Unit 4	Internship							
	Unit 5	Internship repo							
	Mode of examination	Jury							
	Weightage Distribution	CA		MTE	ETE				
		60%		0%	40%				
	Text book/s*	-		1	1				
	Other								
	References								

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO 1	PSO 2	PSO 3	PSO 4
COs													
CO1	-	-	2	2	1	2	3	2	3	3	3	3	3
CO2	-	-	2	2	2		3	2	2	3	2	3	3
CO3	-	2	1	2	2	2	-	-	3	2	3	2	2
CO4		1	3		1	2			3	1	2	1	1
CO5	-	2	2	2	2		3	2	2	3	2	3	2

1-Slight (Low) 2-Moderate (Medium) 3-Substantial (High)

