

Pimpri Chinchwad Education Trust's

Pimpri Chinchwad University

SCHOOL OF DESIGN

(Established under Maharashtra Act No V of 2023) Sate, Pune - 412 106. Maharashtra, India

MASTER'S OF DESIGN (ISD)



EFFECTIVE FROM 2024-25 ACADEMIC YEAR



Pimpri Chinchwad Education Trust's

Pimpri Chinchwad University

Sate, Pune - 412106

Curriculum Structure

Master's of Design (ISD)

Pune Design School



Effective from Academic Year 2024-25



Program Structure

Preamble:

India has a long history of welcoming visitors with open arms, making it recognised as a typically hospitable nation. Hospitality is known to be the very essence of India. The hospitality sector offers a wide range of professional options at different levels and requires a variety of talents, and it makes a considerable contribution to the economies of India and many other nations.

The goal of Pimpri Chinchwad University's Bachelor of Design is to provide students with a solid intellectual foundation. Their ability to develop strategic business insight, make moral decisions, and adopt a sustainable worldview is empowered by the curriculum. In essence, the programme aims to create leaders who can proactively implement business strategies that pursue the economic well-being of all stakeholders while considering the welfare of the people and impact on the planet. The foundational information and abilities offered in this undergraduate degree programme are crucial for students to succeed in creative roles and be responsible citizens in the future. A key component of the curriculum is the student's holistic development. The B.Des program is Ideal for students who wish to start a career in Design, management, or entrepreneurship soon after graduation.

Vision and Mission of Programme:

Vision

The vision of the Pune Design School is to be recognized for leadership in the discipline and the profession by advancing design excellence in an evolving global ecosystem, promoting human values and well being, and inculcating responsibility to society, the environment, and the profession.

Mission

- To offer future leaders with academic and research excellence to succeed in today's dynamic Design Environment as successful managers and entrepreneurs.
- To Improve and Enhance the Educational Experience.
- To Cultivate a Culture of Research, Scholarship and Creative Activities
- To Grow a Comprehensive and Balanced Student community and Faculty
- To Advance Industry, Professional, Community and University Partners



Programme Educational Objectives:

- 1. Develop research methodologies to investigate and identify design focused interventions.
- 2. Develop critical thinking and ability to create innovative solutions.
- 3. Exhibit proficiency in practices that employ media, materials & emerging technologies.
- 4. Ability to demonstrate digital & analogue competence to present ideas.
- 5. Develop entrepreneurial approach to create strategic design solutions.





Programme Outcomes (POs):

The Graduates will be able to:

- 1. Critical & Design Thinking: Capacity to apply and effectively problem-solve in an unstructured, unfamiliar and complex context.
- Emerging Technology Practice: Demonstrate curiosity and intention of practice in the domain of emerging technologies that engender innovation in the industry.
- 3. Strategic Design Disposition: Illustrate critical understanding of impact of design interventions on micro & macro environments.
- 4. Entrepreneurial Attitude: Display of professionalism, enterprise, teamwork and collaboration as an approach and attitude towards entrepreneurship.

Programme Specific Outcomes (PSOs):

- Using a structured thought process and design development process, ability to design Products that create business value, serve individual
 and societal needs while considering environmental impact
- 2. Ability to create innovative solutions which are desirable to the user, technically feasible and commercially viable.
- 3. Ability to develop concepts through cycles of research and concept progression while integrating all relevant issues in a given context through several stages of design development and form building.
- 4. Ability to work in a professional manner with the knowledge of design management in a collaborative, team environment, honoring timelines and ethical considerations.



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Curriculum Framework for M. Des (2 years)

Sr. No.	Type of course	Abbreviations
1	Major	MAJ
4	Ability Enhancement Courses	AEC
5	Open Electives	OE
7	Summer Internship	INTR
9	Project	PROJ

Sr. No.	Type of course	No. of Courses	Total Credits		
	-51		No	%	
1	Major	17	47	55.95	
2	Open Electives	3	9	10.71	
3	Ability Enhancement Courses	1	2	2.38	
4	Project	4	23	27.38	
5	Internship	1	3	3.57	
	Total	22	84	100.0	



COURSE DISTRIBUTION: SEMESTER WISE

Sr.	Tyme of source	Courses							
No.	Type of course	1	2	3	4				
1	Major	6	3	3	1	13			
2	Open Electives	1	1	1	0	3			
3	Ability Enhancement Courses	0	0	1	0	1			
4	Project	1	1	1	1	4			
5	Internship	0	1	0	0	1			
	Total					22			



Program Structure of M.Des Interior and Space Design

Pattern 2024

Semester I

WEF: A.Y. 2024-25

Course Code	Course Name	Course Type		Teachi	ng Schen	ne		Assessmen Scheme		
			Th	Prac	Tut	Credit	Hrs	CI A	ES A	Total
PMDFD101	FUNDAMENTALS OF DESIGN	MAJ	2	1	-	3	<u> </u>	40	60	100
PMDFD102	DESIGN THINKING AND INNOVATION	MAJ	1	1	2	2	3	40	60	100
PMDFD103	INTRODUCTION TO DESIGN RESEARCH	MAJ	1	1	2	2	3	40	60	100
PMDISD101	DRAFTING TECHNIQUES	MAJ	2	2	<u> </u>	4	5	40	60	100
PMDISD102	DESIGN STUDIO - I	PROJ	1	2	+	3	5	40	60	100
PMDISD103	BASICS OF FURNITURE AND SPACE	MAJ	1	1	-	2	5	40	60	100
PMDISD104	HUMAN ERGONOMICS	MAJ	1	1	•	2	5	40	60	100
PMDISD105	OE-I	OE	1	2		3	5	40	60	100
				-		21	35	320	480	800

PMDISD105	OPEN ELECTIVE COURSE I Options
PMDISD105A	Clay
PMDISD105B	Bamboo



Course Code	Course Name	Course T	Гуре	Teaching So		cheme		Assessmer Scheme		
			Th	Prac	Tut	Credit	Hrs	CIA	ESA	Tota
PMDISD106	ESTIMATING & COSTING	MAJ	2	0	-	2	2	40	60	100
PMDISD107	INTERIOR MATERIALS & SPECIFICATION	MAJ	2	2	-	4	6	40	60	100
PMDISD108	FURNITURE & FURNISHINGS	MAJ	2	2		4	6	40	60	100
PMDISD109	Design Studio -II	PROJ	2	3	-	5	8	40	60	100
PMDISD110	OE II	OE	1	2	-	3	5	40	60	100
PMDISD111	SUMMER INTERNSHIP	INTR	3	0	-	3	3	40	60	100
						21	30	240	360	600

PMDISD110	OPEN ELECTIVE COURSE II Options
PMDISD110A	Retail and Exhibition Design
PMDISD110B	Lighting Design

Exit Policy: For students exiting after 1st year of M.Des will receive Post Graduate Diploma in Interior and space design after successful completion of Summer Internship Project of 4 credits

PMDISD111	SUMMER INTERNSHIP	INTR	3	0	0	3	0		100



		Course								
Course Code	Course Name	Type	-	Teaching	Schen	ie –	+	Assesment S		Scheme
			Th	Prac	Tut	Credit	Hrs	CI A	ES A	Total
PMDISD201	INTERIOR LIGHTING & ACOUSTICS	MAJ	2	2	-	4	6	40	60	100
PMDISD202	WORKING DRAWINGS	MAJ	2	2	150	4	6	40	60	100
PMDISD203	INTERIOR SERVICES	MAJ	2	1	21	3	4	40	60	100
PMDISD204	Design Studio-III	PROJ	2	3	-	5	8	40	60	100
PMDISD205	OE III	OE	1	2		3	5	40	60	100
PMDFD104	Portfolio Making	AEC	2	0	-	2	2	40	60	100
						21	31	240	360	600

PMDISD205	OPEN ELECTIVE COURSE III Options
PMDISD205A	Design Management
PMDISD205B	Crafts of India

		Semester	IV							
Course Code	Course Name	Course Type	Teaching Scheme					Assesment Schen		
			Th	Prac	Tut	Credit	Hrs	CI A	ES A	Total
PMDISD206	Post Graduation Project/Internship	PROJ	5	5	0	10	0	120	180	300
PMDISD207	Dissertation	MAJ	5	6	0	11	0	120	180	300
						21	0	240	360	600



Name of the Program: M.Des				Semester : 1	50	Level: PG			
100000000000000000000000000000000000000		FUNDAMENTALS OF DESIGN		Course Cod	Course Code/ Course Type		PMDFD101		
Course Pa	attern	2024		Version		1.0			
Teaching	Scheme). 		Assessment Schem	e		
Theory	Practical	Tutorial	Total Credits	Hours	CIA (Continuous Internal Assessment)	ESA (End Semester Assessment)	Practical/O ral		
2	1	-	3	4	40	60			
Pre-Requisite: Course Objectives (CO):				1. To de 2. To de Design 3. The ol design the de 4. Use voin 2D propo 5. To be and ha attribu	velop an interest velop an understant that plays a Vitable to under compositions and a compositions are sign is good or not arious visual elem with balance, hard tions, etc. able to use radii armony of forms at the sign is good or not arious visual elem with balance, hard tions, etc.	erstand the fundamed learn why a particular of the create good mony, a good sension anipulation, form to communicate into	entals of Good cular aspect of d compositions e of integration, angible		
Course L	earning Outco	omes (CLO):		1. In Sin 2. cre see De 3. Cr ap 4. As wo	nagine, and createmplification, Manate, understand actions using these esign. eate personally signlying basic designsess, evaluate, apork.	urse, Students will be transitions of 2-D nipulation, etc. and express new for basic fundamental gnificant works of gn concepts and tecopreciate, and respectations to design p	forms by rms/cross- I exercises in design by chniques.		



Descriptors/Topics	CLO	Hours
UNIT I		
Introduction: Basics of Design, Principles of Design	CLO 1	6
UNIT II		
Design & Storytelling : Elements, 2D Composition	CLO 2	6
UNIT III		
Design Culture: Arts and Crafts, Global Design	CLO 3	6
UNIT IV		
Human Centered Approach : Themes & Design Rules – Visual	CLO 4	6
Communication		
UNIT V		
Design & Critical Thinking: 10 Rules for Good Design	CLO 5	6
Total		30

Assignment Number	Assignment Title	Week Number	Details	CLO	Hours
1	Textures and patterns	4,5,6	volume, surface, movement	CLO 2	10
2	Typography	7,8,9	shape, form and structure	CLO 3	10
3	2D composition	10,11,12	hierarchy, order; and spatial movement	CLO 4	10
			Total	37	30



Text Book / Reference Books:

- 1. Geometry of Design 2005 by Kimberly Elam
- 2. Principles of Three Dimensional Design 2006 by Stephen Luccking

- Online Resources/E-Learning Resources
 1. https://paperform.co/blog/principles-of-design/
- 2. https://teaching.ellenmueller.com/3d-design/resources/elements-principles-of-design/





Name of the Program: M.Des			Semester: 1		Level: PG			
		Design Thinking and Innovation		Course Code/ Course Type		PMDFD102		
Course Pa	ıttern	2024		Version		1.0		
Teaching	Scheme	% ⁻		27		Assessment Schem	e	
Theory	Practical	Tutorial	Total Credits	Hours	CIA (Continuous Internal Assessment)	ESA (End Semester Assessment)	Practical/0 ral	
1	1	-	2	3	40	60	Jo e s	
				thinkii 3. Apply paralle 4. Apply 5. Use D Skills	ng sessions both critical thin el to solve problet some design thin esign Thinking in	nking concepts to tl n the Workplace, D	inking in	
Course Le	earning Outco	mes (CLO):		1. have approper appr	plied in a wide ra rsonal to the glob restigate and thin oblems and opportiate an attitude on king welop visual literating	of how design thinl ange of contexts, fro al k creatively about	om the design design to explain	



Descriptors/Topics	CLO	Hours
UNIT I		
Design Thinking Overview: What Is Different About Design thinking?, Exercise: Design Thinking in the Workplace, Design Thinking Skills, Exercise: Design Thinking Skills, Design Thinking Mindset, Principles of Design Thinking, Exercise: Design Thinking Principles	CLO 1	3
UNIT II		
General Approaches to Design Thinking: The Basis for Design Thinking, Design Thinking Frameworks, Exercise: Build a Design Thinking Framework, The Design Thinking Team, What Constitutes a Design Thinking Team?, Exercise: Create a Design Thinking Team , Design Thinking Workshops and Meetings	CLO 2	3
UNIT III		
A Design Thinking Approach in Stages: Apply the Design Thinking Frameworks, Class Exercise: Review the Case Study, Empathize with the Customers and/or Users, Exercise: Engage the Customer /User, Define the Problem, Exercise: Review and Follow-Up, Exercise: Define the Point of View, Ideate, Exercise: Develop Potential Solutions, Exercise: Feedback on the Solutions, Prototype Alternate Solutions, Exercise: Create a Prototype of the Solution Exercise: Review the Prototype and Gain Feedback, Test the Solutions	CLO 3	3
UNIT IV		
Design Thinking Techniques: Listening and Empathizing Techniques, Engagement, Exercise: Ask the Right Questions, Observation, Exercise: Setting Up the Observation, Showing, Empathy, Define and Ideation Techniques, Unpacking, Exercise: Unpack to the Wall, Personas, Exercise: Create Personas for the Case Study, Pattern Recognition and Connecting the Dots, Prototype and Test Techniques, Types of Prototypes Exercise: Revise Franken Prototype to Refined Prototype Forms of Testing in Design Thinking, Exercise: Prepare and A / B Test of the Prototype	CLO 4	3
UNIT V General Design Thinking Practices: Visualization Techniques and Diagrams, Use of	CLO 5	3
Diagrams and Maps in Design Thinking, Exercise: Create an Empathy Map, Story Telling Techniques, Story Telling Throughout the Design Thinking Process, Improvisation, Exercise: Tell a Story, Scenarios Exercise: Create a Set of Scenarios for the Case Study, K-Scripts, Exercise: Create a Set of K-Scripts for the Case Study	CLOS	J
	I	1



Activity Plan

Assignment Number	Assignment Title	Week Number	Details	CLO	Hours
1	General Approaches	4,5,6	Build a Design Thinking Framework	CLO 2	10
2	Approach in Stages	7,8,9	Define the Point of View, Ideate, Exercise: Develop Potential Solutions,	CLO 3	10
3	Design Thinking Practices	10,11,12	Create an Empathy Map, Story Telling Techniques, Story Telling Throughout the Design Thinking Process, Improvisation	CLO 4	10
			Total		30

<u>Learning resources</u> <u>Textbooks / Reference Books:</u>

- Change by Design: How Design Thinking Transforms Organizations and Inspires Innovation, by Tim Brown
- The Design of Business: Why Design Thinking is the Next Competitive Advantage, by Roger L. Martin

Online Resources/E-Learning Resources

https://principles.design/

https://teaching.ellenmueller.com/3d-design/resources/elements-principles-of-design/



Name of	the Program:	M.Des		Semester :	1	Level: PG	
Course Name		Introduction to Design Research		Course Co	de/ Course Type	PMDFD103	
Course P	attern	2024		Version		1.0	
Teaching	Scheme	N:		90		Assessment Schem	e
Theory	Practical	Tutorial	Total Credits	Hours	CIA (Continuous Internal Assessment)	ESA (End Semester Assessment)	Practical/O ral
1	1		2	3	40	60)=:
Course L	earning Outco	omes (CLO):		social sc 2. identify process. 3. Discuss problem impleme 4. Understa collectio minin varial At Student 1. Understa	iences. and discuss the issue the complex issues in , selecting an approperating a research projund the concepts and in, analysis and reporaize the risk of bias in bles. s who successfully c and why research is i	procedures of samplering. and helps to control e omplete this Course important for any kine	research, and ing, data extraneous will be able to:
				2. Understa quantita 3. know w context 4. Acquire represer Affinity ERAF S	tive methodologies in hich of these tools at and circumstances d data visualization sk atation tools such us diagram, Empathy in System Diagram etc.	on. ide range of qualitativale related to design research methods be best suring the research profills and competently Scenario and Personale mapping, Entities position a range of situation research findings into	arch and practice nited in different ocess. use visual as building, citioning map, ns.



Descriptors/Topics	CLO	Hours
UNIT I		
Research process and scope: types (Primary & Secondary and Qualitative & Quantitative) of research, sampling methods, user profiling etc. as well as various research tools and methods (excluding observation, visual ethnography, observations etc.).	CLO 1	3
UNIT II		
Tools of research: brainstorming, surveys, interviews, experiment design, etc.,	CLO 2	3
UNIT III		
Research analysis: Analysis techniques of insights and patterns from the collected data and information, Validation of Data, Writing research report, Format of the report, Style of referencing, Bibliography	CLO 3	3
UNIT IV		
Preparing research proposals: Selection of the topic, Review of literature, Identifying Objectives of the Study, preparing Research Questions, Hypothesis formation	CLO 4	3
UNIT V		
Issues in Research: Research Ethics, Plagiarism, software to detect plagiarism	CLO 5	3
Total		15

Assignment Number	Assignment Title	Week Number	Details	CLO	Hours
1	Research process	4,5,6	observation, visual ethnography, observations	CLO 2	10
2	Tools of research	7,8,9	brainstorming, surveys, interviews	CLO 3	10
3	Research analysis	10,11,12	data and information, Validation of Data , Writing research report	CLO 4	10
			Total		30



Textbooks/Reference Books:

- Design Research: Methods and Perspectives (The MIT Press) Hardcover 2003 by Brenda Laurel
- Design Research Now: Essays and Selected Projects (1st edition) 2007 By Ralf Michel, Hochschule für Gestaltung und Kunst, Basel, Switzerland

- https://www.inderscienceonline.com/journal/jdr
- 3 Kinds of Design Research: Research for / into / through Design -https://www.youtube.com/watch?v=7niJ2a6HTBo





Course Name		M.Des DRAFTING TECHNIQUES		Semester :	1	Level: PG	
				Course Code/ Course Type		PMDISD101	
Course P	attern	2024		Version	70	1.0	
Teaching	Scheme					Assessment Schem	e
Theory	Practical	Tutorial	Total Credits	Hours	CIA (Continuous Internal Assessment)	ESA (End Semester Assessment)	Practical/O ral
2	2	<u> </u>	4	6	40	60	s u s
				exploring conceptua 5.Building	various ways of see	uition, and powers of ing, both perceptually an exercise that helps	y and
Course Learning Outcomes (CLO):				Skill full media emp Observe two dimensistechniques Demonst of subjects, the scale of Implement required fo Recognition	y apply the principle loyed in manual free and accurately trans sional representation such as perspectives trate skills in accurat at a range of scales: f furniture, and at the ent the fine motor ski r manual freehand di	ely drawing and illus at the scale of a port scale of architecture lls and precision in p rawings and illustration between the various to	aterials, and ustration. s or scenes into riety of drawing strating a variety table object, at enmanship ons.



Descriptors/Topics	CLO	Hours
UNIT I		
Fundamentals of hand drafting and space planning	CLO 1	6
UNIT II		
Initial spatial planning of a room.	CLO 2	6
UNIT III		
An introduction to the basic alternate ways of drawing and of viewing a room	CLO 3	6
UNIT IV		
Proportions and spacing	CLO 4	6
UNIT V		
An intro to CAD (Computer Aided Design) both in 2-D and 3-D	CLO 5	6
Total		30 A

Assignment Number	Assignment Title	Week Number	Details	CLO	Hours
1 Technical Understanding		4,5,6	Identifying technical drawing standards	CLO 2	10
2	Autocad 1	7,8,9	Setting up the workspace and templates in AutoCAD	CLO 3	10
3	Autocad 2	10,11,12	Producing technical drawings in AutoCAD	CLO 4	10
4	Tasksheets	13,14,15	Verifying, publishing and printing drawings	CLO5	30
			Total	7	60



Textbooks/Reference Books:

- Interior Design Drawing Paperback Import, 26 September 2008 by Alan Hughes
- Construction Drawings and Details for Interiors Paperback 20 August 2021 by Rosemary Kilmer (Author), W. Otie Kilmer (Author)

- Interior Design Sketching Complete Guide for Beginners and Pro's https://www.youtube.com/watch?v=VDn3WvxhByM
- Design Drawing vs Technical Drawing https://www.youtube.com/watch?v=hy51qA_u7h4





Name of the Program:		M.Des	M.Des		1	Level: PG	
Course Name		DESIGN STUDIO - I		Course Co	de/ Course Type	PMDISD102	
Course Pattern 2024			Version		1.0		
Teaching	Scheme		1.			Assessment Schem	e
Theory	Practical	Tutorial	Total Credits	Hours	CIA (Continuous Internal Assessment)	ESA (End Semester Assessment)	Practical/O ral
1	2		3	5	40	60) <u> </u>
Pre-Req	uisite:	W.			1).	90	
Course Objectives (CO):				The Objective of Design studio 1 is - 1. Understand the broad range of ideas and concerns that are embodied in the intellectual and creative process 2. Practice sequence of projects ranging in degree of abstraction, level of complexity and focus, the students learn the design skill that are necessary for the exploration, development 3. Deliberate communication of conceptual ideas and their manifestation into space and form. 4. enhance your ability to understand spatial composition in relation to functional requirements 5. Focus on the design of a space with a moderate level of functional and			
Course L	earning Outco	omes (CLO)		Upon Completion of this course, students will be able to 1. Develop core knowledge and skills in design, including the integration of complex spatial/material problem solving skills and critical personal and disciplinary reflection. 2. Undertake primary and/or secondary research to inform and enrich the design process and outcomes 3. Apply the design process as a research tool for understanding and refining a design proposal 4. Transfer knowledge and understanding of sub-disciplinary areas creatively and appropriately towards a resolved design proposal. 5. Test and critically evaluate a variety of methodologies, processes and media involved in the development of architectural design proposals, and thus be able to analyse, question, and engage in			



Descriptors/Topics	CLO	Hours
UNIT I		
Introduction to the course and general information	CLO 1	3
UNIT II		
Basic principles of urban design	CLO 2	3
UNIT III		
units for individual and collective living	CLO 3	3
UNIT IV		
spatial strategies and design deliverables	CLO 4	3
UNIT V		
analysis concept development, functional analysis, spatial planning	CLO 5	3
Total		15

Assignment Number	Assignment Title	Week Number	Details	CLO	Hours
1	space organization	4,5,6	Identifying technical drawing standards	CLO 2	10
2	User Study	7,8,9	user comfort	CLO 3	10
3	Implementation	10,11,12	structure and finish material.	CLO 4	10
4	Concept	13,14,15	Verifying, publishing and printing drawings	CLO5	30
			Total		60

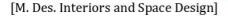


Textbooks/Reference Books:

- The City in History: Its Origins, Its Transformations, and Its Prospects by Lewis Mumford 1972
- Construction Drawings and Details for Interiors Paperback 20 August 2021

by Rosemary Kilmer (Author), W. Otie Kilmer (Author)

- Re-imagining urban space | Ali Butcher | TEDxJacksonville https://www.youtube.com/watch?v=dsh4YzSxSH0
- Design Drawing vs Technical Drawing https://www.youtube.com/watch?v=hy51qA_u7h4





Name of the Program:		M.Des		Semester :	1	Level: PG	
Course Name		BASICS OF FURNITURE AND SPACE		Course Co	de/ Course Type	PMDISD103	
Course P	attern	2024		Version		1.0	
Teaching	Scheme	100				Assessment Schem	e
Theory	Practical	Tutorial	Total Credits	Hours	CIA (Continuous Internal Assessment)	ESA (End Semester Assessment)	Practical/O ral
1	1	2	2	3	40	60	1 0 <u>2</u> 8
				turn ge design. 2. Workir 3. Deliber manife 4. Enhance relation 5. Focus of function	nerates a broader aping knowledge of materate communication station into space and your ability to under the functional required in the design of a spinal and structural communication in the design of a spinal and structural communication.	derstand spatial comp ements ace with a moderate l mplexity	t for furniture a techniques and their osition in
Course Learning Outcomes (CLO):				Upon Completion of this course, students will be able to 1. Consider all design aspects in a comprehensive and integrated manner 2. Maintaining focus and critical engagement upon the primary concepts and ideas that inspire design. 3. Apply the design process as a research tool for understanding and refining a design proposal 4. Transfer knowledge and understanding of sub-disciplinary areas creatively and appropriately towards a resolved design proposal 5. Test and critically evaluate a variety of methodologies, processes			and integrated the primary understanding isciplinary areas design proposal.



Descriptors/Topics	CLO	Hours
UNIT I		
Human body support devices : Aesthetics (the meaning of form) Historical precedent (examples from the past)	CLO 1	3
UNIT II		
Surfaces and objects to support various activities : Function and social use (ergonomics, comfort, proxemics)	CLO 2	3
UNIT III		
Storage and display pieces : Surrounding context (the spatial setting for furniture)	CLO 3	3
UNIT IV		
Spatial partitions : Environmental design matters (sustainability, renewable materials, off-gassing), Surrounding context (the spatial setting for furniture)	CLO 4	3
UNIT V		
Material: classification, characteristics, properties, availability, cost	CLO 5	3
Total		15

Assignment Number	Assignment Title	Week Number	Details	CLO	Hours
1	Function and social use	4,5,6	ergonomics, comfort, proxemics	CLO 2	10
2	Design processes	7,8,9	sketching, iterative overlays, model studies	CLO 3	10
3	Fabrication processes	10,11,12	hand, power, digital	CLO 4	10
			Total	7	30



Textbooks/Reference Books:

- The City in History: Its Origins, Its Transformations, and Its Prospects by Lewis Mumford 1972
- Construction Drawings and Details for Interiors Paperback 20 August 2021

by Rosemary Kilmer (Author), W. Otie Kilmer (Author)

- Re-imagining urban space | Ali Butcher | TEDxJacksonville https://www.youtube.com/watch?v=dsh4YzSxSH0
- https://catalogimages.wiley.com/images/db/pdf/9781118090787.excerpt.pdf





Name of the Program: Course Name Course Pattern		M.Des Human Ergonomics		Semester :	1	Level: PG	
				Course Code/ Course Type		PMDISD104	
		2024		Version		1.0	
Teaching	Scheme	- 100				Assessment Schem	e
Theory	Practical Tutorial		torial Total Credits	Hours	CIA (Continuous Internal Assessment)	ESA (End Semester Assessment)	Practical/C ral
1	1	2	2	3	40	60	120
				To have holistic transdisciplinary understanding of knowledge support design and innovation in human centric systems understanding the sociocultural environment and organization dimension of HE enabling a more humane and sensitive practice of human-centered systems for promoting well-being, productivity and overall systems performance To take a step towards understanding the sociocultural environment and organizational dimension of HE Focus on the design of a space with a moderate level of functional and structural complexity			
Course L	earning Outco	omes (CLO)		Upon Com	pletion of this course	e, students will be abl	e to



Descriptors/Topics	CLO	Hours
UNIT I		
Brief History of HE: Earlier origins of human scale in everyday contexts,	CLO 1	3
Modern times and the advent of the factory system		
Brief understanding of human relations and industrial psychology		
UNIT II		
Human Knowing in technological contexts: Vision and Perception, Cognition,	CLO 2	3
Information processing approach		
UNIT III		
Human Acting in technological contexts : Challenges of different	CLO 3	3
demographics, Anthropometrics, How does anthropometrics help in design?,		
Body and activity systems, Lifting, grasping, pushing and pulling		
UNIT IV		
The physical context of human knowing and acting: Varieties of work	CLO 4	3
environments, Issues related to lighting and sound, HE outside in everyday world		
UNIT V		
Uncertainty as a fundamental challenge in human performance: coping with	CLO 5	3
the unexpected, Dynamic Challenges in large-scale systems not typically present		
in simple systems, Challenges of human behavior in large scale systems, complex		
interlinkages with technology, Human errors in complex systems		
Total		15

Assignment Number	Assignment Title	Week Number	Details	CLO	Hours
1	technological contexts	4,5,6	ergonomics, comfort, proxemics	CLO 2	10
2	human knowing	7,8,9	sketching, iterative overlays, model studies	CLO 3	10
3	Body and activity systems	10,11,12	hand, power, digital	CLO 4	10
			Total		30



Textbooks/Reference Books:

- Bridger, R. (2017). Introduction to Human Factors and Ergonomics (4th ed.). Boca Raton: CRC Press. Casey, S. M. (1998). Set phasers on stun. Santa Barbara, CA: Aegean.
- Dempsey, P. G., Wogalter, M. S., & Hancock, P. A. (2000). What's in a name? Using terms from definitions to examine the fundamental foundation of human factors and ergonomics science. Theoretical Issues in Ergonomics Science, 1(1),

- https://onlinecourses.swayam2.ac.in/aic20_ed03/preview
- https://archive.nptel.ac.in/courses/107/103/107103004/

