

ALAGAPPA UNIVERSITY

(Accredited with A+ Grade by NAAC (CGPA: 3.64) in the Third Cycle,
Graded as Category-I University and granted autonomy by MHRD-UGC)

DIRECTORATE OF COLLABORATIVE PROGRAMMES



B. Des. Communication Design

Regulations and Syllabus

[For those who join the Course in July 2023 and after]

CHOICE BASED CREDIT SYSTEM

Name of the Programme : **B. Des. (Bachelor of Design)**
Pattern : Semester System
Mode : Collaborative Programs
Medium : English
Duration : Four Years
Eligibility : Candidate for admission to **B. Des.** shall be required to have passed Higher Secondary (10+ 2) or its equivalent in any stream from any recognized Institution. Eligibility of candidates applying from abroad shall be evaluated for equivalence on case-to-case basis.

Programme Educational Objectives (PEOs)

Programme Educational Objectives	On the successful completion of B.Des the graduate student is expected to the below after graduation
PEO1	Students shall be imbued with a comprehensive quality knowledge in the field of design.
PEO2	The design knowledge imparted shall be a conduit between conventional and contemporary practices.
PEO3	As a design practitioner, students shall be trained to have a multidisciplinary approach to problem solving.
PEO4	The students shall be groomed to be socially empathetic individuals in all walks of life.
PEO5	As designers, students shall be able to appreciate and be sensitive to the interdependence between regional and global influences.

Programme outcomes (POs)

Programme Outcomes	On the successful completion of B. Des Communication design
PO1	Students acquire fundamental knowledge and skills on the elements of design and their inter-relationships.
PO2	Will learn the design process and its impact in designing optimum solutions.
PO3	Will gain knowledge about the characteristics of materials and their handling in designing and presenting products.
PO4	Acquire skills in using digital tools and applying the right ergonomic factors in designing a product.
PO5	Practice considerations for sustainability and social change in design.
PO6	Execute designing effective compositions and interactions to enrich their communication design and development skills.
PO7	Explore new communication design and development paradigms for the contemporary world.
PO8	Students acquire skills in design of systems and product presentation techniques.
PO9	Students will explore professional communication design practices by executing a communication design project by applying their learning
PO10	Students become experts in communication design skills and practices that prepare them for professional as well as research career.

Programme Specific Outcomes (PSOs)

Programme Specific Outcomes	After the successful completion of the Communication Design Program
PSO1	Students will know all the functional constituents of Communication design based on the different manifestations of communication design.
PSO2	Students create product concepts which is a pragmatic meld of traditional and modern processes.
PSO3	Students will consider social, economic, psychological, environmental, sustainable and scientific factors when they design.
PSO4	Students will conduct themselves as socially empathetic individuals in their daily life.
PSO5	Students will be able to ascertain the mutual influence between their design and global designs.

PROGRAMME CONTENT AND SCHEME OF EXAMINATIONS

The course of study shall comprise the following subjects according to the syllabus prescribed from time to time.

B. Des. Communication Design

Semester	Part	Course Code	Sub. Code	Title of the Paper	T/P	Credits	Hours/W	Marks		Total
								Int.	Ext.	
I	I	T/OL	81811T	Tamil / Other Languages - I	T	3	3	25	75	100
	II	E	81812	General English-I	T	3	3	25	75	100
	III	CC	81813	Creativity and Mind Mapping	P	2	3	75	25	100
		CC	81814	Foundation Drawing	P	4	5	75	25	100
		CC	81815	Elements of Design I	P	4	5	75	25	100
		CC	81816	Colour theory	P	2	4	75	25	100
		Allied	81817	Introduction to Materials	P	4	5	75	25	100
	IV	SEC-I	81818	Value Education	T	2	2	25	75	100
				Library			2			
Total						24	32	500	300	800
II	I	T/OL	81821T	Tamil / Other Languages - II	T	3	3	25	75	100
	II	E	81822	General English-II	T	3	3	25	75	100
	III	CC	81823	Introduction to Photography	P	2	4	75	25	100
		CC	81824	Product Sketching and Drawing	P	4	6	75	25	100
		CC	81825	Design Process	P	4	6	75	25	100
		Allied	81826	Elements of Design II	P	4	6	75	25	100
	IV	SEC-II	81827	Environmental Studies	T	2	2	25	75	100
				Library			2			
Total						22	32	425	275	700
III	I	T/OL	81831T	Tamil / Other Languages - III	T	3	3	25	75	100
	II	E	81832	General English-III	T	3	3	25	75	100
	III	CC	81833	Art Design and Culture	P	2	3	75	25	100
		CC	81834	Visual Perception and Semiotics	P	3	4	75	25	100
		CC	81835	Elements of Graphic Design	P	3	4	75	25	100
		CC	81836	Typography	P	3	4	75	25	100
		Allied	81837	Illustration	P	4	5	75	25	100
	IV	SEC-III	81838	Entrepreneurship	T	2	2	25	75	100
		NME-I	81839A	1) Adipadai Tamil I	P	2	2	25	75	100
			81839B	2) Advance Tamil I	T			25	75	
81839C			3) IT Skills for Employment	T	25			75		
	4)MOOC'S		T	25	75					
Total						25	30	575	325	900
IV	I	T/OL	81841T	Tamil / Other Languages – IV	T	3	3	25	75	100
	II	E	81842	General English-IV	T	3	3	25	75	100
	III	CC	81843	Aesthetics in Design	P	2	3	75	25	100
		CC	81844	Research Methodology	P	2	3	75	25	100
		CC	81845	Digital Design Tools	P	3	4	75	25	100
		CC	81846	Publication Design and Printing	P	4	5	75	25	100
		Allied	81847	Applied Ergonomics	P	4	5	75	25	100
		DSE	81848	Project I – Information and Data Visualization	P	4	4	75	25	100
	IV	NME-II	81849A	1) Adipadai Tamil II	P	2	2	25	75	100
			81849B	2) Advance Tamil II	T			25	75	
81849C			3) Small Business Management/	T	25			75		
			4) MOOC'S	T	25			75		
Total						27	30	575	325	900

V	III	CC	81851	Sustainable design	P	4	6	75	25	100	
		CC	81852	Advanced Typography	P	2	2	75	25	100	
		CC	81853	Branding and Advertising	P	4	6	75	25	100	
		Allied	81854	Animation and Story Telling	P	4	6	75	25	100	
		Allied	81855	AI for Design	P	2	2	75	25	100	
		DSE	81856	Project II – System Design	P	4	6	75	25	100	
V	IV	OE	81857A 81857B 81857C	Open Elective 1) Theatre for Design 2) Craft Study-I 3) Clay Modelling	P	2	2	75	25	100	
											Total
VI	III	CC	81861	Sound Recording and Design	P	4	4	75	25	100	
		CC	81862	Motion Graphics	P	4	6	75	25	100	
		CC	81863	Toy and Game Design	P	4	6	75	25	100	
		Allied	81864	Packaging Design and Printing	P	4	6	75	25	100	
		Allied	81865	Portfolio Skills	P	2	2	75	25	100	
		DSE	81866	Project III – Environmental Graphics	P	4	6	75	25	100	
VI	IV	OE	81867A 81867B 81867C	Open Elective 1) Puppetry 2) Craft Study-II 3) Story Telling	P	2	2	75	25	100	
											Total
VII	III	Industrial internship of 45 days (between VI and VII semester break)									
		CC	81871	Internship	I	2	2	75	25	100	
		CC	81872	New Media Design	P	4	6	75	25	100	
		CC	81873	Film Design	P	4	6	75	25	100	
		CC	81874	Project IV – Interaction Design	P	4	6	75	25	100	
		CC	81875	Visual Merchandising	P	4	6	75	25	100	
		Allied	81876	Design Management and Professional Practice	P	2	2	75	25	100	
DSE	81877	Design For Future	P	2	2	75	25	100			
		Total		22	30	525	175	700			
VIII	III	CC	81881	Degree Project	PR	10	24	75	25	100	
		DSE	81882	Design Research Report writing	PR	4	6	75	25	100	
		Total		--	14	30	150	50	200		
Grand Total						180	244	3725	1775	5500	

Note:

For Theory: 1 Credit = 1 Hour

For Practical: 1 Credit = 2 Hours

SEMESTER I

CC	81813	Creativity and Mind Mapping	P	Credits -2	Hours-3
Objectives	<ol style="list-style-type: none"> 1. To gain insights on personal creative abilities. 2. To recognize importance of collective creative design endeavours. 3. To understand basic ideation related techniques. 4. To get introduced to basic design constructs and creative thinking tools. 5. To explore creativity through projects. 				
Unit I	Understanding Creativity – Realising personal creative capabilities and uniqueness through interdisciplinary activities – Definition of Abstract-Definition of Concrete – Creativity using language- Story writing – Story boarding- Acting- Enacting through theatre. Creating art through unconventional medium.				
Unit II	What is Design? – Design Thinking- Boosting Visual Representations using metaphors. Figures of speech - Emphasis on Empathy - Emphasis on Teamwork - Individual contribution to collective cause-Understanding non-verbal communication.				
Unit III	Mind mapping - Brain storming techniques – Applications of Mind Mapping – Creating Mind map Models - Real life problems – Grassroot design – Context Mapping – Data Collection – Analysis – Grouping information.				
Unit IV	Introduction to Creative Techniques in Design, SCAMPER Creative Technique, Six thinking hats by Edward De Bono Technique for Creative Thinking, 6-8-5 Technique				
Unit V	Team-based design projects – Individual/Team Presentations – Use of Visual Medium – Feedback Analysis – Critical Analysis – Listening and Reading Comprehension – Report Writing.				

Reference and Text books

- *Hisako Ichiki (2005); Takao Umehara, Extra ordinary: An amusing way for unleashing your creativity, Rockport Publishers*
- *Joyce Wycoff (1991), Mind Mapping: your Personal guide to Exploring Creativity and Problem-Solving, Berkley Books, New York*
- *Ed Catmull (2014), Creativity, INC: Overcoming the unseen forces that Stand in the way of True Inspiration, Bantam Press*
- *Edward De Bono (2016), Six Thinking Hats (RIE): The multi-million bestselling guide to running better meetings and making faster decisions, Penguin Publishers*

Web Resources

<https://www.psychologytoday.com/us/basics/creativity>
<https://www.sciencedirect.com/journal/journal-of-creativity>
<https://www.tandfonline.com/journals/hcrj20>
<https://onlinelibrary.wiley.com/journal/21626057>
<https://www.adelaide.edu.au/writingcentre/sites/default/files/docs/learningguide-mindmapping.pdf>
<https://libguides.umn.edu/c.php?g=921727&p=8499064>

Course Outcomes		Knowledge Level
CO1	Understand and identify personal creative boundaries.	K2
CO2	Recognize the importance of collective efforts through individual creative contributions.	K2
CO3	Apply ideation techniques to analyze and synthesize information.	K3
CO4	Utilize creative thinking tools in design efforts.	K5
CO5	Evaluate creative skills and tools through project execution.	K5

Mapping Course Outcome VS Programme Outcomes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	1	-	-	-	-	1	2	1	2
CO2	3	2	-	-	-	2	1	3	3	2
CO3	3	3	1	-	-	1	1	1	1	2
CO4	3	1	-	2	1	1	1	1	2	2
CO5	3	1	-	2	1	1	2	2	3	3
W. AV	3	1.6	0.2	0.8	0.4	1	1.2	1.8	2	2.2

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	2	1	1
CO2	2	3	3	3	1
CO3	2	2	3	3	3
CO4	2	2	3	3	2
CO5	2	2	3	3	2
W. AV	2.2	2.4	2.8	2.6	1.8

Course Designed By	BOS Date	Approved By
Dr Aravind.S Mr.Ariharasunthan. R	07.08.2023	BOS

CC	81814	Foundation Drawing	P	Credits - 4	Hours-5
Objectives	<ol style="list-style-type: none"> To understand and appreciate drawing as a medium of communication. To gain insights into personal drawing capabilities through basic exercises. To understand the various perspectives in drawing. To familiarize with the techniques to create authentic drawings of objects in natural settings. To gain a critical appreciation for the expressive power of drawing to communicate significant content and form. 				
Unit I	Elements of Art – Line. Exercise with different types of lines, i.e., Horizontal lines, Vertical Lines, Diagonal lines, understanding its applications and design orientations. Realization of personal style.				
Unit II	Perspective drawing study - 1 point, 2 points, and 3 points perspective, (Arial View-Bird Eye View, Worm Eye View, Foreshortening). Understanding the design drawing with perspective applications.				
Unit III	Understanding Light and Shadow, Gray Scale - basic geometrical forms- Cuboid, Cone, Sphere, and others. Rendering natural and man-made objects using traditional and novel mediums.				
Unit IV	Nature drawing study - Drawing organic forms from life and/or images. Understanding the light and shadow, textures, materials, rendering styles and techniques. Indoor / Outdoor Study.				
Unit V	Study of human body, develop a Male and female proportion understanding, study the basic anatomy, understand the humans in motions and poses Sketching.				

Reference and Text books

- *Scott Robertson & Thomas Bertlin (2013), How to Draw: Drawing And Sketching Objects and Environments From Your Imagination, , Design Studio Press*
- *Koos Eissen & Rosilin Steur (2009), Sketching: Drawing Techniques for Product Designers, BIS Publishers*
- *Steven B. Reddy (2018), Everyday Sketching and Drawing: Five Steps to a Unique and Personal Sketchbook Habit, Monacelli Press*
- *Andrew Loomis (2011), “Drawing the Head and Hands”, Titan Publisher*
- *Alan Pipes (1990), Drawing for 3-dimensional design: Concepts, Illustration, Presentation, Thames & Hudson Publication.*

Web Resources

<https://artmuseum.princeton.edu/learn/art-making/online-drawing-classes>

Course Outcomes		Knowledge Level
CO1	Understand and realize personal drawings styles and skills.	K2
CO2	Create authentic perspective drawings of objects.	K6
CO3	Create drawing compositions with vivid emphasis on the basic visual constituents of an object.	K6
CO4	Demonstrate skills to draw in natural settings.	K2
CO5	Show skills in drawing human figures.	K2

Mapping Course Outcome VS Programme Outcomes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	-	-	-	2	1	2	2	2
CO2	3	3	-	-	-	2	1	2	2	2
CO3	3	3	1	-	-	2	1	2	2	2
CO4	3	3	1	-	2	1	1	2	2	2
CO5	3	2	-	3	1	1	1	1	2	2
W. AV	3	2.8	0.4	0.6	0.6	1.6	1	1.8	2	2

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	3	1	3	3
CO2	3	3	1	1	2
CO3	3	3	3	1	2
CO4	3	3	1	1	2
CO5	1	2	3	2	1
W. AV	2.4	2.8	1.8	1.6	2

Course Designed By	BOS Date	Approved By
Dr Aravind.S Mr.Ariharasunthan. R	07.08.2023	BOS

CC	81815	Elements of Design – I	P	Credits - 4	Hours-5
Objectives	<ol style="list-style-type: none"> To educate about the elements of Design. To educate about the Principles of Design. To emphasize on the cognitive theories governing design. To develop a practical understanding of order and space in design. To learn the foundations of aesthetics in design. 				
Unit I	Elements of design: Point – Lines – Straight, curvy, bold and expressive lines; Shapes – Geometric, Organic and Abstract shapes; Form – Contours; Space – Negative-Positive space; Value – high value, low value; Colors – hue and shades; and Texture - patterns.				
Unit II	Principles of design: Emphasis - Balance and Alignment - Repetition – Unity - Proportion- Movement - White Space. Figure-Ground Relationship- 2D monochrome/colour model creations to understand space.				
Unit III	Gestalt theory; Principles- Applications of principles in design; Law of closure, Law of common region, Figure-Ground, Law of proximity, Symmetry, and order. Basic introduction to the human senses – visual, aural, and haptic- physiology				
Unit IV	Order and Space: Fibonacci curve - Platonic solids - Archimedean solids – Polyhedral Fractals – Constructing solids with paper - Wire. Fusion of symmetric and asymmetric objects.				
Unit V	Aesthetics: Hierarchy, Balance, Scale, Repetition, Contrast, Proximity, Pattern. Golden Ratio, Von Restorff Effect – Cognitive understanding. Aesthetics and Usability.				
Reference and Textbooks					
Agoston (1987), G. A., Color Theory and Its Application in Art and Design, Springer, Berlin, Heidelberg					
William Lidwell, Kritina Holden & Jill Butler (2010), Universal Principles of Design, 2 nd Edition, Rockport Publishers					
Hisako Ichiki & Takao Umehara (2005), Extra Ordinary: An amusing way for unleashing your creativity, Rockport Publishers					
Joyce Wycoff (1991), Mind Mapping: your Personal guide to Exploring Creativity and Problem-Solving, Berkley Books, New York					
Ed Catmull (2014), Creativity, INC: Overcoming the unseen forces that Stand in the way of True Inspiration, Bantam Press					
Web Resources					
https://www.extension.iastate.edu/4hfiles/statefair/eehandbook/eehjpdesign4h634.pdf					
https://guides.lib.berkeley.edu/c.php?g=920740&p=6634741					
https://www.wichita.edu/services/mrc/OIR/Creative/1Design/design-elements.php					
Course Outcomes					Knowledge Level
CO1	Demonstrate thorough knowledge in elements of design.				K3
CO2	Demonstrate thorough knowledge in principles of design				K3
CO3	Adept in utilizing Gestalt theory for design applications.				K3
CO4	Create designs using order and space effectively.				K6
CO5	Analyze designs for their aesthetic content.				K4

Mapping Course Outcome VS Programme Outcomes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	2	2	2	1	1	2	1	3	3
CO2	3	2	2	2	1	1	2	1	3	3
CO3	3	2	2	2	1	1	2	1	3	3
CO4	3	2	2	2	1	1	2	1	3	3
CO5	3	2	2	2	1	1	2	1	3	3
W. AV	3	2	2	2	1	1	2	1	3	3

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	1	2	1	2
CO2	3	1	2	1	2
CO3	3	1	2	1	2
CO4	3	1	2	1	2
CO5	3	1	2	1	2
W. AV	3	1	2	1	2

Course Designed By	BOS Date	Approved By
Dr Aravind.S Mr.Ariharasunthan. R	07.08.2023	BOS

CC	81816	Colour Theory	P	Credits -2	Hours-4
Objectives	1. To educate on the basics of colour theory. 2. To familiarize on the basics of values of colour. 3. To understand the emotional aspects of colour. 4. To recognize the sensitivity to the importance of colour in daily life. 5. To develop designs by employing colour theories.				
Unit I	Introduction to Colour and its Uses - Primary & Secondary Colours - Understanding Hue, Value, Tint, and shade - Meaning and understanding of colour intensity by making a chart.				
Unit II	Greyscale, Tonal values - 2D Achromatic Composition- High, Middle, and Low contrast - Space Division, Emphasis, Balance. Colour schemes - Analogous, Complimentary, Monochrome, Achromatic, Adjacent, Warm and Cool Colours.				
Unit III	Physical and emotional reaction of colours. - Colour Balance - Colour Interpretation– Expression, Mood, Seasons. Introduction to Josef Alber’s Interaction of Colour. Introduction to the Bezold Effect.				
Unit IV	Visual compositions derived from themes -Colour harmony - Colour symbolism in various cultures and ethnicities with marked differences. Colour as signifiers in multiple contexts: Colour and emotions, Colours and seasons, Colour and Food, Colour and Spaces.				
Unit V	Colour in popular media and films - Colours and genres – Colour in publication design – Colour coding in signage and wayfinding, colour in web/app designing for digital media. Colour as a dominant aspect of fashion. - Gender classification of colour. – Colour sophistication and colour trends in fashion. Colour signifiers in products and and their psychological influences, colour coding in industrial processes. (factory/workplace, machine, equipment, uniforms, tools etc.)				

Reference and Textbooks

- Patti Mollica (2013), *Colour Theory*, Walter Foster Publishing
- Jose Maria Parramon (1993), *The Book of Color: The History of Color, Color Theory, and Contrast; The Color of Forms and Shadows; Color Ranges and Mixes; And the Practice of Pai*, Watson-Guption Publications
- Faber Birren (2013), *Colour Psychology and Colour Therapy: Faber Birren*, Lushena Books
- John Gage (1995), *Colour and Culture*, Thames & Hudson
- Kassia St Clair (2017), *The Secret Lives of Colour*, Penguin Books

Web Resources

https://web.mit.edu/22.51/www/Extras/color_theory/color.html
<https://online.maryville.edu/liberal-arts-degrees/the-art-of-color/>

Course Outcomes		Knowledge Level
CO1	Utilize the basics of colour theory in design creations	K3
CO2	Employ/evaluate values of colour in designs	K3
CO3	Apply/ Assess emotional aspects of colour in designs	K3
CO4	Identify the effects of colour in daily life.	K1
CO5	Create designs with colour as an important factor of consideration.	K6

Mapping Course Outcome VS Programme Outcomes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	2	1	1	1	1	2	3	3
CO2	3	3	2	1	1	1	1	2	3	3
CO3	3	3	2	1	1	1	1	2	3	3
CO4	3	3	2	1	1	1	1	2	3	3
CO5	3	3	2	1	1	1	1	2	3	3
W. AV	3	3	2	1	1	1	1	2	3	3

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	2	2	2
CO2	3	3	2	2	2
CO3	3	3	2	2	2
CO4	3	3	2	2	2
CO5	3	3	2	2	2
W. AV	3	3	2	2	2

Course Designed By	BOS Date	Approved By
Dr Aravind.S Mr.Ariharasunthan. R	07.08.2023	BOS

Allied	81817	Introduction to Materials	P	Credits -4	Hours-5
Objectives	<ol style="list-style-type: none"> 1. To educate the characteristics of materials such as clay, plaster of paris, wood and metal. 2. To understand the methods of preparations and relevant tools of operation based on the material. 3. To develop basic forms/structures out of various materials using appropriate tools and machines. 4. To recognize the right choice of material based on the job. 5. To apply material know-how to develop a basic form. 				
Unit I	Introduction to materials – Materials suitable for prototyping – Material study based on products and industry- Traditional materials – hybrid materials – composites – applications. Methods of handling each material. Material Operations				
Unit II	Workshop Practices – Safety Equipments - tool handling – Machine handling- Measuring Instruments – Sketches and Documentation – Workshop Etiquettes – Workspace Management				
Unit III	Metal– working with Aluminium, Steel – Sheet Metal – Wire- Welding – Bending Operations - Creating a simple form – Surface Treatments in Metal - Buffing Painting - Polishing				
Unit IV	Wood: - types of wood – Hard, Soft, Man-made wood – Grains, Tone, Density – Joints – Types of joints – Wooden block, cutting in various angles, interlocking method – Surface Treatment in wood – Polishing and Painting.				
Unit V	Traditional/Common Plastic Materials - Plaster of paris - carving, making basic forms. Clay- Types of Clay - Kneading – Curing – Natural Composites - Pottery – carving – toys and sculptures- Display.				

Reference and Textbooks

- *Chris Lefteri (2005), Wood: Materials for Inspirational Design, Rotovision Publication*
- *Mike Ashby & Kara Johnson (2014), Materials and Design: Art and science of material selection in product design, 3rd Edition, Butterworth – Heinemann*
- *Inna Alesina and Ellen Lupton (2010), Exploring Materials: Creative Design for Everyday Objects, Princeton Architectural Press*
- *Chris Lefteri, Metals (2004): Material for Inspirational Design, Rotovision Publication*

Web Resources

<http://www.ijdesign.org/index.php/IJDesign/article/view/129/78>
<https://www.sciencedirect.com/journal/materials-and-design>

Course Outcomes		Knowledge Level
CO1	Understand the various types of material based on its characteristics and applications.	K2
CO2	Demonstrate good workshop and material handling practices	K2
CO3	Demonstrate material specific processes in prototype making.	K2
CO4	Create basic models using various types of materials like clay, metal and wood.	K6
CO5	Demonstrate product finishing skills appropriate to the material used.	K2

Mapping Course Outcome VS Programme Outcomes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	3	1	2	2	2	1	2	3
CO2	3	3	3	1	2	1	1	-	2	3
CO3	3	3	3	1	2	1	1	-	2	3
CO4	3	3	3	1	2	1	1	-	2	3
CO5	3	3	3	1	2	1	1	-	2	3
W. AV	3	3	3	1	2	1.2	1.2	0.2	2	3

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	2	3	2
CO2	3	3	1	3	2
CO3	3	3	1	1	2
CO4	3	3	1	1	2
CO5	3	3	1	1	2
W. AV	3	3	1.2	1.8	2

Course Designed By	BOS Date	Approved By
Dr Aravind.S Mr.Ariharasunthan. R	07.08.2023	BOS

SEC-I	81818	Value Education	T	Credits -2	Hours-2
Objectives	<ul style="list-style-type: none"> ➤ To impart humanism values among the student under various religious thoughts ➤ To make them awareness of ethics and civil rights ➤ To familiarities the students with basic features of extracurricular activities such NSS and NCC and relevance of Abdul Kalam and Mother Teresa efforts to teach values ➤ To impart skills by preparing project works such as writing poems and stories 				
Unit I	Definition – Need for Value Education – How Important Human Values are – Humanism and Humanistic Movement in the World and in India – Literature on the Teaching of Values Under Various Religions Like Hinduism, Buddhism, Christianity, Jainism, Islam, Etc. Agencies for Teaching Value Education in India – National Resource Centre for Value Education – NCERT– IITS and IGNOU.				
Unit II	Vedic Period – Influence of Buddhism and Jainism – Hindu Dynasties – Islam Invasion – Moghul Invasion – British Rule – Culture Clash – Bhakti Cult – Social Reformers – Gandhi – Swami Vivekananda – Tagore – Their Role in Value Education.				
Unit III	Value Crisis – After Independence: Independence – Democracy – Equality – Fundamental Duties – Fall of Standards in All Fields – Social, Economic, Political, Religious and Environmental – Corruption in Society. Politics Without Principle – Commerce Without Ethics – Education Without Character – Science Without Humanism – Wealth Without Work – Pleasure Without Conscience – Prayer Without Sacrifice – Steps Taken by The Governments – Central and State – To Remove Disparities on the Basis of Class, Creed, Gender.				
Unit IV	Value Education on College Campus: Transition from School to College – Problems – Control – Free Atmosphere – Freedom Mistaken for License – Need for Value Education – Ways of Inculcating It – Teaching of Etiquettes – Extra-Curricular Activities – N.S.S., N.C.C., Club Activities – Relevance of Dr.A.P.J. Abdual Kalam’s Efforts to Teach Values – Mother Teresa.				
Unit V	Project Work 1. Collecting Details about Value Education from Newspapers, Journals and Magazines. 2. Writing Poems, Skits, Stories Centering on Value-Erosion in Society. 3. Presenting Personal Experience in Teaching Values. 4. Suggesting Solutions to Value – Based Problems on the Campus.				
Reference and Text books Chakrabarti, M. (1997). <i>Value education: changing perspectives</i> . Kanishka Publishers. Eknath Ranade (1991). <i>Swami Vivekananda’s Rousing Call to Hindu Nation</i> . Centenary Publication Karabi Kakoti, <i>Value Education – Need of the Hour</i> . Radhakrishnan, S. (1968). <i>Religion and culture</i> . Orient Paperbacks, New Delhi Saraswathi, T. S. (Ed.). (1999). <i>Culture, socialization and human development: Theory, research and applications in India</i> . SAGE Publications Pvt. Limited. Satchidananda, M. K. (1991). <i>Ethics, education, Indian unity and culture</i> . Ajanta Publications, Delhi.					

Venkataiah, N. (Ed.). (1998). *Value education*. APH Publishing, New Delhi.

Out Comes

After studied, the student will be able to

- Knowledge about Humanism and Humanistic Movement in the World and in India
- Understand the Social Reformers and Their Role in Value Education
- Explore the theories of Fundamental Duties, Ethics, Extra-Curricular Activities – N.S.S., N.C.C

Know the concept of Value Education on College Campus, Project Work regarding Writing Poems, Skits, Stories Centering on Value-Erosion in Society

SEMESTER II

CC	81823	Introduction to Photography	P	Credits- 2	Hours -4
Objectives	1. To introduce the history and fundamentals of photography 2. To introduce the functions of camera and its handling. 3. To educate the elements and principles of photography 4. To familiarize with various types of photography 5. To explore the photography through a project.				
Unit I	Introduction to Photography: Definition - History of photography, Black and White Photography, Colour Photography, Different genres of photography digital cameras – Types – Image editors – File formats.				
Unit II	Types of cameras - Usage of lens, lights, filters, flash, and other useful accessories - Camera handling - usage of aperture, Shutter speed, ISO standards, Equipment maintenance				
Unit III	Composition – frame, shot, angle, rule of third, light and shadow observations- lighting – nature light – studio light usages - exposures- depth of field and focusing.				
Unit IV	Types of Photography – Project Documentation - Introduction to portrait - Landscapes – Street photography – Product photography – concept photography.				
Unit V	Explore a selected genre through project - photograph curation and presentation. Photo exhibition of the course outcomes.				
Reference and Text books <ul style="list-style-type: none"> • David Praker, (2010), <i>Fundamentals of Creative Photography</i>, AVA Publishing • Michael Freeman, (2005), <i>Digital photography Expert Colour</i>, Ilex Press Ltd • Michael Freeman, (2006), <i>The complete guide to Light and Lighting in Digital Photography</i>, Ilex Press Ltd. 					
Web Resources http://edit.educ.ttu.edu/site/jcheon/manual/digital_photography.pdf https://www.cs.cmu.edu/afs/cs/academic/class/15462-f09/www/lec/lec4.pdf https://www.nfi.edu/when-was-the-camera-invented/					
Course Outcomes					Knowledge Level
CO1	Understand the history and fundamentals of photography				K2
CO2	Utilize the learnt functions /handling of camera.				K3
CO3	Demonstrate the knowledge of elements and principles of photography				K3
CO4	Utilize the knowledge to practice the various genres of photography				K3
CO5	Explore a selected genre through a project.				K6

Mapping Course Outcome VS Programme Outcomes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	2	2	2	1	1	1	2	3	3
CO2	3	2	2	2	1	1	1	2	3	3
CO3	3	2	2	2	1	1	1	2	3	3
CO4	3	2	2	2	1	1	1	2	3	3
CO5	3	2	2	2	1	1	1	2	3	3
W. AV	3	2	2	2	1	1	1	2	3	3

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	2	2	2
CO2	3	2	2	1	1
CO3	3	3	3	3	2
CO4	3	3	3	3	1
CO5	3	2	2	2	2
W. AV	3	2.6	2.4	2.2	1.6

CC	81824	Product Sketching and Drawing	P	Credits -4	Hours-6
Objectives	Educate about the various types of sketches involved in product development. Learn to express product evolution through sketches. Learn product rendering to authentically express the details of a product. Develop capabilities to present a product through sketches. Demonstrate skills to render an ideated product.				
Unit I	Types of Sketches: Ideation Sketches - Process Sketches - Explanatory Sketches and Persuasive or Presentation Sketches - Scale and proportion–viewing angles.				
Unit II	Retrospective sketching of a product - Process, Ideation and Explanatory Sketches - Analytical object drawing–product user flow sketches –parts to whole sketches – product ecosystem sketches.				
Unit III	Traditional medium rendering techniques: Water colour, poster colour, markers, pen and ink. Digital techniques - Elements of shadow, depth and texture in product rendering.				
Unit IV	Presentation Sketches – Detailed drawing of a product. Rendering using manual and digital methods. Emphasis on choice of visual angle, source of light and product feature to assert, material emphasis through textural rendering.				
Unit V	Final Project –Presentation of detailed sketches and final rendered drawing of an ideated product- Feedback Analysis – Critical Analysis – role of sketches in product planning and prototype improvement.				
Reference and Text books					
<ul style="list-style-type: none"> • James Craig, (1990), <i>Production for the Graphic Designers</i>, Watson-Guptill • Francis D K Ching with Steven P. Juroszek, (2019) <i>Design Drawing</i>, 3rd Edition, John Wiley Publication • Koos Eissen&RosilinSteur (2009), <i>Sketching: Drawing Techniques for Product Designers</i>, BIS Publishers • Erik Olofsson & Klara Sjöln, (2005), <i>Design Sketching</i> • RoselienSteur&KoosEissen, (2011), <i>Sketching: The Basics (2nd printing) [Hardcover]</i>, BIS Publishers 					
Web Resources					
http://www.delftdesigndrawing.com/uploads/2/0/4/9/20493508/reader_final5_lqq.pdf					
Course Outcomes					Knowledge Level
CO1	Demonstrate skills to communicate product evolution through sketches.				K2
CO2	Outline product formulation stages in detail through sketches.				K4
CO3	Explore best fit sketching mediums for the product being developed.				K5
CO4	Develop skills to render and present a product authentically and appropriately.				K3
CO5	Relate the importance of sketches with product planning and prototyping.				K2

Mapping Course Outcome VS Programme Outcomes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	3	1	1	2	2	3	3	3
CO2	3	3	3	1	1	2	2	3	3	3
CO3	3	3	3	-	1	1	1	2	3	3
CO4	3	2	1	1	-	1	2	3	3	3
CO5	3	3	3	2	2	2	2	3	3	3
W. AV	3	2.8	2.6	1	1	1.6	2.2	2.8	3	3

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO 1	PSO 2	PSO3	PSO4	PSO5
CO1	3	3	3	1	2
CO2	3	3	3	1	2
CO3	3	3	2	1	2
CO4	3	3	2	1	2
CO5	3	3	3	3	3
W. AV	3	3	2.6	1.4	2.2

CC	81825	Design Process	P	Credits - 4	Hours-6
Objectives	1. Educate on the details of design process 2. Familiarise with various data presentation and abstraction techniques 3. Develop an understanding of various brain storming techniques 4. Familiarize with methods to present a concept. 5. Employ design process techniques to conduct a mini project.				
Unit I	Introduction to design process, design premise, design brief, constraints, and criteria for designing. User Studies- Maps – ecosystem map- affinity map- empathy map. Design space, solution space, prototyping, iterative design , divergence and convergence in design process. User in design.				
Unit II	Working board: Preliminary concepts using storyboard, material board, form board, Mood boards. User flow, Context mapping, Primary research, Secondary research data, Data analysis and synthesis, basic statistics, sample space.				
Unit III	Brain storming, mind mapping, research, market study, forecast, inspiration and doodling – field visit and case study, prototypes – rough- medium- high fidelity prototypes. User testing – KPI. Sustainability.				
Unit IV	Concept of presentation, surface development, exploratory drawings, illustration, specification sheet, cost sheet and technical packages. Product rendering.				
Unit V	Development of a product through detailed practice of design, Creating mock-up, Design drawing , Presentation, Transition from brief to detailed design brief				
Reference and Text books					
<ul style="list-style-type: none"> • <i>Bryan Lawson, (2005), How Designers Think: The Design Process Demystified, Om Books</i> • <i>Richard Morris, (2009), Fundamentals of Product Design, Academic Press</i> • <i>Tim Parsons, (2009), Thinking: Objects Contemporary Approaches to Product Design, Academic Press.</i> 					
Web Resources					
https://arl.human.cornell.edu/PAGES_Delft/Delft_Design_Guide.pdf https://web.stanford.edu/~mshanks/MichaelShanks/files/509554.pdf					
Course Outcomes					Knowledge Level
CO1	Demonstrate knowledge of design process				K2
CO2	Effectively collect, group, analyse data and synthesize information				K3
CO3	Concretization of information as prototypes				K4
CO4	Development and presentation of the final concept				K6
CO5	Effectively employ design process to execute a project.				K6

Mapping Course Outcome VS Programme Outcomes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	-	-	2	1	1	2	3	3
CO2	3	3	-	-	1	-	1	2	3	3
CO3	3	3	-	-	-	1	1	2	3	3
CO4	3	3	-	-	-	-	-	3	3	3
CO5	3	3	-	-	1	1	2	2	3	3
W. AV	3	3	-	-	0.8	0.6	1	2.2	3	3

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	2	2	3	2
CO2	3	2	2	3	2
CO3	3	2	2	3	2
CO4	3	2	2	3	2
CO5	3	2	2	3	2
W. AV	3	2	2	3	2

Allied	81826	Elements of Design II	P	Credits-4	Hours -6
Objectives	<ol style="list-style-type: none"> Educate the various attributes of colour. Educate space and form through 3D compositions. Understand the importance of forms in nature and their relevance to design. Understanding of minimalism and aesthetics in design. Explore form synthesis. 				
Unit I	Attributes of Colours; 2D Achromatic and Chromatic Schemes; Compositions, Values, Colour Saturation, Colour temperature, Gray Scale. Colour on various surfaces, Effects on Textures. Effects of colours on Forms. Creating a colour palate for a 3D Object.				
Unit II	3D Composition: 3D composition using various materials and forms – Balance – Emphasis - Shape language – Form language – Space understanding. Study of organic and geometric forms. Hybrid forms. Tessellation: Techniques and application – Tiling – Symmetry- Translation, Reflection, Rotation, Glide reflection. Rectangle, triangle, and other shapes. Metamorphosis and form Transformation. Fractals				
Unit III	Effect of form in human behaviour. Visual and Physical affordance. Form and emotion. Form and Space, Emphasis and Movement. Rhythm. Symmetry-Form and Time Forms in nature- Bio Mimicry. Nature inspired forms. Form and material relationship.				
Unit IV	Minimalism, Fluency and Aesthetics. Form identity and communication. Brand Identity- Minimalism-Maximum Utility. Noise Limitation. Product form manipulation and translation. Context based form synthesis and design.				
Unit V	Execute the synthesis of a Form and present it by charting its each evolutionary stage. Development of form based on a theme.				
Reference and Text books					
<ul style="list-style-type: none"> <i>Wucius Wong, (1993), Principles of form and design, John Wiley & Sons, Inc.</i> <i>Wucius Wong, (1972), Principles of Two-Dimensional Design, John Wiley & Sons, Inc.</i> <i>Pipes & Alan, (1990), Drawing for 3-dimensional design: Concepts, Illustration, Presentation, Thames & Hudson, New York, NY, U.S.A.</i> <i>Weinschenk Susan, (2011), 100 Things Every Designer Need to Know about People, 1st edition, New Riders</i> 					
Web Resources					
https://guides.lib.berkeley.edu/design https://www.wichita.edu/services/mrc/OIR/Creative/1Design/design-elements.php					
Course Outcomes					Knowledge Level
CO1	Demonstrate capabilities to employ appropriate color schemes in product creation.				K2
CO2	Demonstrate capabilities to synthesize 3D forms				K2
CO3	Interpret the essence of natural forms through 3D form synthesis				K4
CO4	Design products that are aesthetically pleasing.				K6
CO5	Design a form based on a theme				K6

Mapping Course Outcome VS Programme Outcomes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	1	2	-	1	2	2	3	3
CO2	3	3	1	2	-	1	2	2	3	3
CO3	3	3	1	2	3	1	2	2	3	3
CO4	3	3	1	2	3	1	2	2	3	3
CO5	3	3	2	2	1	2	2	2	3	3
W. AV	3	3	1.2	2	1.4	1.2	2	2	3	3

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	1	1	2
CO2	3	3	1	1	2
CO3	3	3	2	3	3
CO4	3	2	3	2	3
CO5	3	3	2	2	3
W. AV	3	2.8	1.8	1.8	2.6

SEC-II	81827	Environmental Studies	T	Credits -2	Hours -2
Objectives	1. To understand the multidisciplinary nature of environmental studies such as forest, water, mineral and energy and land resources. 2. To portray the eco system bio diversity and its conservation. 3. To impart the knowledge of environmental pollution 4. To know the importance of field work to study common plants, insects and birds and visit local areas to document environmental assets.				
Unit I	The Multidisciplinary Nature of Environmental Studies: Definition, Scope and importance- Need for public awareness				
Unit II	Natural Resources: Renewable and non-renewable resources A). Forest Resources: Use and Over-Exploitation, Deforestation, Case Studies, Timber Extraction, Mining, Dams and Their Effect on Forests and Tribal People. B). Water Resources: Use and Over-Utilization of Surface and Ground Water, Floods, Drought, Conflict over Water, Dams- Benefits and Problems. C). Mineral Resources: Use and Exploitation, Experimental Effects of Extracting and Using Mineral Resources, Case Studies. D). Food Resources: World Food Problems, Changes Caused by Agriculture and Overgrazing, Effects of Modern Agriculture, Fertilizer-Pesticide Problems, Water Logging, Salinity, Case Studies. E). Energy Resources: Growing Energy Needs, Renewable and Non-Renewable Energy Sources, Use of Alternate Energy Resources, Case Studies. F). Land Resources: Land as a Resource, Land Degradation, Main Induced Landsides, Soil-Erosion and Desertification. ➤ Role of Individual in Conservation of Natural Resources Equitable Use of Resources for Sustainable Lifestyle				
Unit III	ECOSYSTEMS, BIO-DIVERSITY AND ITS CONSERVATION Ecosystems: Concept of an Ecosystem, Structure and Function of an Ecosystem, Energy Flow in The Ecosystem, Food Chains, Food Webs and Ecological Pyramids. Biodiversity and Its Conservation: Introduction- Definition: Genetic, Species and Ecosystem Diversity, Bio-Geographical Classification of India, Value of Biodiversity: Consumptive Use, Productive Use, Social Ethical, Aesthetic and Option Values. Biodiversity at Global, National and Local Levels, India as a Mega-Diversity Nation, Hot Spots of Biodiversity, Threats to Biodiversity: Habitat Loss, Poaching of Wildlife, Man-Wildlife Conflicts, Endangered and Endemic Species of India, Conservation of Biodiversity: In-Situ And Ex-Situ Conservation of Biodiversity.				
Unit IV	Environmental Pollution: Causes, Effects And Control Measures of: A). Air Pollution, B). Water Pollution, C). Soil Pollution, D). Marine Pollution, E). Noise Pollution, F). Thermal Pollution, G). Nuclear Hazards.				
Unit V	Field Work ➤ Visit to a Local Area to Document Environmental Assets – River/Forest/Grassland/Hill/Mountain ➤ Visit to a Local Polluted Site-Urban/Rural/Industrial/Agricultural ➤ Study of Common Plants, Insects, Birds Study of Simple Ecosystem-Pond, River, Hill Slopes, etc.,				

Reference and Textbooks:-

- Agarwal, K. C. (2001). *Environmental Biology*. Nidi Publication Ltd.
- Bharucha, E. (2002). *The Biodiversity of India* (Vol. 1). Mapin Publishing Pvt Ltd, Ahmedabad, India.
- Brunner, C. R. (1993). *Hazardous waste incineration*. McGraw Hill Inc.
- Clark, R. B., Frid, C., & Attrill, M. (2001). *Marine pollution* (Vol. 5). Oxford: Oxford university press.
- Cunningham, W. P., Cooper, T. H., Gorham, E., & Hepworth, M. T. (1998). *Environmental encyclopedia*. De, A. K. (1990). *Environmental Chemistry*. Wiley Eastern Ltd.
- Gleick, H. P. (1993). *Water In Crisis, Pacific Institute For Studies In Dev, Environment & Security*. Stockholm Env. Institute, Oxford University Press.
- Goel, P. K., & Trivedi, R. K. (1998). *An introduction to air pollution*. Technoscience Publication, India.
- Hawkins, R. E. *Encyclopedia of Indian Natural History*. Bombay Natural History Society, Bombay.
- Heywood, V. H., & Watson, R. T. (1995). *Global biodiversity assessment* (Vol. 1140). Cambridge: Cambridge university press.
- Jadhav, H. V., & Bhosale, V. M. (2006). *Environmental Protection and laws*. Himalaya Publishing House.
- McKinney, M. L., & Schoch, R. M. (1996). *Environmental Science: Systems and Solutions* (St. Paul, MN). Mhaskar, A. K. *Matter Hazardous*. Techno-Science Publications.
- Miller, T. G. (1989). *Environmental Science: Working with the earth* (2nd). Wadsworth Publishing Co.
- Narain, S., Mahapatra, R., Das, S., Misra, A., Parrey, A. A., Pandey, K., & Banerjee, S. (2014). *Down to Earth*. Centre for Science and Environment.
- Odum, E. P., & Barrett, G. W. (1971). *Fundamentals of ecology* (Vol. 3, p. 5). Philadelphia: Saunders.
- Rao, M. N., & Datta, A. K. (1987). *Waste Water Treatment*. Oxford & Ibh Publ, Co. Pvt. Ltd.
- Sharma, B. K. (2001). *Environmental Chemistry – 6th Revised Edition*.
- Townsend, C. R., Begon, M., & Harper, J. L. (2008). *Essentials of Ecology* (3rd edition). Oxford: Blackwell Publishing.
- Trivedi, R. K. (2010). *Handbook of Environmental Laws, Rules, Guidelines, Compliances and Standards*. Vol. I and II, EnviroMedia.
- Wanger, K. D. (1998). *Environmental Management*. Saunders Co. Philadelphia, USA.

Web Resources

Course Outcomes

On successful completion of the subject, the students acquired knowledge about:

CO1	Renewable and non-renewable resources.
CO2	Species and Ecosystem Diversity, Bio-Geographical Classification of India, Value of Biodiversity:
CO3	Causes, Effects and Control Measures of environmental pollution
CO4	Field work knowledge of studying eco system pond, river, hill and common plants, insects and birds
CO5	Documentation of environmental assets

SEMESTER III

CC	81833	Art Design and Culture	P	Credits- 2	Hours -3
Objectives	<ul style="list-style-type: none"> To familiarise art and design movements and their impact in our daily life. To educate about the cultural elements and their influence in contemporary societies. To impart the constructs of semiotics and their ubiquitousness. To develop skills to appreciate and employ ethnographic research practices. To demonstrate learnings of this course by gathering and synthesis of information to curate cultural edifices of a society. 				
Unit I	Different type of Art & Design movements - Indian Art History-History of design – Bauhaus. Introduction to Ethnography – Society – Community- Groups – culture – subculture People and consumers – type of consumers and cultures				
Unit II	Cultural Elements: artifacts, stories, rituals, symbols, beliefs, values, social organization and language. Cultural collaborations - Regional design Elements and practices –Indian Design. Study of material and cultural edifices.				
Unit III	Introduction to Semiotics Signs and interpretation theory and its uses in design - Social semiotics – Cultural semiotics – Semiotics in language, industry, education, science, tradition, anthropology - Semiotics in design – Basic semiotics theory (Signifier, Signified, Connotation, Denotation, Index, Icon, Symbol) – Design case studies in semiotics – Iconography				
Unit IV	Stages of ethnographic research - Selection of area to study – Review of literature – Sample selection - observations and data collections- Research and analysis – Cultural impact in design - Design impact in culture. Design Culture: Importance of human behavior in designing public spaces.				
Unit V	Field Visit: The ethnographical aspect of the place – Visual documentations – Photographs – Sketches – Visual notes. Compilation and presentation of the data.				
Reference and Textbooks					
<ul style="list-style-type: none"> Keith Negus & Michael Pickering (2004), <i>Creativity, Communication and Cultural Value</i>, Sage Publications Nigel Rapport & Joanna Overing (2014), <i>Key Concepts in Social and Cultural Anthropology</i>, Routledge, London Jasleen Dhamija (2005), <i>Handicrafts of India Our Living Cultural Tradition</i>, National Book Trust Tim Ingold, (2007), <i>Lines: A brief History</i>, Routledge Publication Marcus Banks & David Zeitlyn, (2015), <i>Visual Methods in Social research</i>, 2nd Edition, SAGE Publications Sara Pink, (2015), <i>Doing Sensory Ethnography</i>, 2nd Edition, SAGE Publications 					
Web Resources					
Course Outcomes					Knowledge Level
CO1	Evaluate contemporary artifacts for their aesthetic and functional elements through the lens of “Design in culture”.				K5
CO2	Describe the elements of culture and relate them to daily life.				K1
CO3	Examine the symbols around and interpret the semiotics behind them				K4
CO4	Formulate and conduct ethnographic research to study a society				K6
CO5	Determine the cultural symbols of a society by detailed curation.				K5

Mapping Course Outcome VS Programme Outcomes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	2	2	-	1	3	3	2	1	1
CO2	3	2	2	1	3	2	2	2	1	2
CO3	3	2	2	1	3	2	2	2	1	2
CO4	3	3	1	-	1	1	1	1	1	3
CO5	3	1	1	1	1	2	2	2	3	3
W. AV	3	2	1.6	0.6	1.8	2	2	1.8	1.4	2.2

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	2	2	2
CO2	3	3	3	2	2
CO3	3	3	3	2	3
CO4	3	3	3	3	3
CO5	3	3	3	2	3
W. AV	3	3	2.8	2.2	2.6

CC	81834	Visual Perception and Semiotics	P	Credits- 3	Hours -4
Objectives	<ul style="list-style-type: none"> • Introduction to cognitive psychology and its constructs of sensation, perception and cognition. Understand Visual Perception • Introduction to semiotics and their different models. • Educate the students about the constructs of semiotics. • Impart the relationship between Visual perception, cognition and semiotics. • Familiarize with the symbols in daily life by exploring the semiotics of a place through a project. 				
Unit I	Key concepts in Cognitive Psychology – Sensation and Perception, Cognition. The visual apparatus of the Eye and Visual system.				
Unit II	Introduction to Semiotics. Ferdinand de Saussure and Charles Pierce models of Signs.				
Unit III	Icon, Index and symbols. Cultural symbols. Bottom up and Top-down process of Sign / symbol processing. Figures of Speech.				
Unit IV	.Study a sign or symbol of choice through their signifiers and create new Icon and index for the same.				
Unit V	Present the study in the form a presentation or poster				
Reference and Textbooks					
<ul style="list-style-type: none"> • <i>E. Bruce Goldstein, Blackwell Handbook of Sensation and Perception, Wiley-Blackwell, 2008</i> • <i>Rudolf Arnheim, Visual Thinking, University of California Press, 2004</i> • <i>Rudolf Arnheim, Art and Visual Perception, University of California Press, 2023</i> • <i>Klaus Krippendorff, The Semantic Turn, CRC press, 2005</i> • <i>Umberto Eco, A theory of Semiotics, Indiana University Press, 1976</i> • <i>Umberto Eco, Kant and the platypus, Vintage Digital, 2014</i> • <i>Daniel Chandler, Semiotics: The Basics, Routledge, 2022</i> 					
Web Resources					
Course Outcomes					Knowledge Level
CO1	Apply principles of Visual Perception in creating and evaluating visual artefacts				K3
CO2	Illustrate know-how of the principles of semiotics and their different models.				K2
CO3	Identify visual contents for their semiotic constructs				K3
CO4	Interpret signs and symbols in a visual canvas by establishing the relationship between Visual perception, cognition and semiotics				K5
CO5	Determine the symbols in daily life by exploring the semiotics of a place.				K5

Mapping Course Outcome VS Programme Outcomes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	3	3	1	2	2	2	3	3
CO2	3	3	2	3	-	1	2	1	2	2
CO3	3	2	1	3	-	2	2	1	3	3
CO4	3	2	1	3	1	2	3	2	3	3
CO5	3	3	2	3	2	3	3	2	3	3
W. AV	3	2.6	1.8	3	0.8	2	2.4	1.6	2.8	2.8

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	2	3	2	2
CO2	3	3	3	2	2
CO3	3	3	3	2	2
CO4	3	3	3	2	2
CO5	3	3	3	3	2
W. AV	3	2.8	3	2.2	2

CC	81835	Elements of Graphic Design	P	Credits -3	Hours -4
Objectives	<ul style="list-style-type: none"> • Introduce the students to the nuances of branding • Familiarize the students with the basic governing parameters in graphic design • Enable a basic understanding of graphic design by executing basic design applications. • Train students to create a graphic identity of an identified brand/product by creating collaterals. • Comprehend the effect of graphic design practice by creating a brand and the graphics for it. 				
Unit I	Introduction to branding - definition, history, and developments - various branding strategies - branding for existing or hypothetical company – research and identifying attributes – target audience – market study.				
Unit II	Design Basics: Measurements- Absolute and Relative. Standard sizes. Paper sizes - Book and Poster sizes- Screen sizes etc.				
Unit III	Create a visual identity – logo – Graphic design and Typographical exploration. Design based on Vector Graphics: Logo and corporate identity design - Symbols or icons for various environments such as schools, factories, and hospitals, Graphics in products, bottle/can sleeves.				
Unit IV	Design Based on Raster Graphics: Poster design, Advertisement design, Typographic design - Book cover- Understanding Spine, Flaps etc. Stationary Design: VC, Envelope - Letterheads, visiting cards - Brochure: Layout, Folds. Applying to collaterals – Tabletop – T-shirt – Cap -3D explorations.				
Unit V	Developing a Brand manual and Display/mock-ups.				
Reference and Text books					
<ul style="list-style-type: none"> • Timothy Samara (2002), <i>Making and Breaking the Grid: A Graphic design layout workshop</i>, Rockport Publishers. • Chen Ci Liang, <i>Greatest Hits of Corporate Layouts</i>, Page One Publishing • Big III Business Layout: <i>The Best Globe Brand Design</i>, Shenzhen Hightone book co. Ltd. • Robert Klaten (2009), <i>Los Logos</i>, Gestalten Publisher. <i>Gestalten & Javier Errea, Newspaper Design: Editorial Design from the World's Best Newsroom</i>, Gestalten Publication. 					
Web Resources					
Course Outcomes					Knowledge Level
CO1	Students are able to relate to the nuances of branding in real world scenarios				K1
CO2	Express an understanding of basic governing parameters in graphic design during practice				K2
CO3	Generate creative graphic design contents				K4
CO4	Justify the effect of graphic design in product design				K5
CO5	Explain effect of graphic design practice in brand/product creation and propagation				K5

Mapping Course Outcome VS Programme Outcomes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	3	3	3	3	3	2	2	2
CO2	3	3	3	3	3	3	3	2	2	2
CO3	3	3	3	3	3	3	3	2	2	2
CO4	3	3	3	3	3	3	3	2	2	2
CO5	3	3	3	3	3	3	3	3	3	3
W. AV	3	3	3	3	3	3	3	2.2	2.2	2.2

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	2	2	2	2
CO2	2	2	2	2	2
CO3	2	2	2	2	2
CO4	2	2	2	2	2
CO5	2	2	2	2	2
W. AV	2	2	2	2	2

CC	81836	Typography	P	Credits- 3	Hours -4
Objectives	<ul style="list-style-type: none"> • Introduction to Calligraphy and Typography • Educate students about the elements of Typeface and Font • Emphasize the relationship between Typeface and Layout design. • Enhance typefaces based on a hypothetical application. • Gain applied exposure to typeface and layout design by creating a book 				
Unit I	Elements of Typography and Calligraphy: Type families – Serif – Non-Serif – Fancy fonts – Basic tools and techniques of Calligraphy. Introduction to Typography - Typeface and Font				
Unit II	The anatomy of typeface - Construction of Letter: Ascender, Height, Base line, Descender, Serif Etc. Anatomy of Typeface (base line, mean line, x height, ascender, descender, cap height, cross bars, loops, windows etc.) – Letter construction (geometry of types) – Premises of type design (grids, proportions, letter width table etc.) – Primary type categories (serif, sans serif, slab serif, humanist, calligraphic, decorative, handwritten etc.) - Classification of types (classic, modern, retro etc.) – Types and their characteristics (readability, clarity, simplicity, sophistication etc.) – Type styles (type weight, type size (point) etc.)				
Unit III	Layouts - Typographic hierarchy in layouts – Character and Word space - Paragraph spacing – Alignment - Line breaks and Rag hyphens - Line space – Leading - Character spacing – Kerning. Introduction to layouts – Format – Grid – Margin – Alignment – Columns and Rows – Gutters. Clarity and readability of types – Type combinations – Typeface personalities and how they affect a layout – line breaks, page breaks, hyphenation – widows and orphans – column width.(Print and Digital Media): Newspaper and Magazine layouts, Front page - Editorial page - Sports pages / Special pages - Inner pages. Layout for webpage – Layout for Mobile Apps.				
Unit IV	. Using various types for creating identity design like logos icons etc. – Case studies of typographic logos – designing a communication using only typography as primary visual element – Type modification to suit design goals.				
Unit V	Design of a Children’s book				
Reference and Textbooks					
<ul style="list-style-type: none"> • <i>Hapercollins, Typography 23: The Annual of the Type Directors Club, Watson-Guptill Publication Inc., U.S.</i> • <i>Alexander Branczyk& Jutta Nachtwey, Emotional Digital: Source Book of Contemporary Typographics, Thames & Hudson.</i> • <i>Rob Carter, Ben Day & Philip Meggs, Typographic Design: Form and Communication, Rockport Publishers.</i> 					
Web Resources					
Course Outcomes					Knowledge Level
CO1	Show skills in doing calligraphy.				K2
CO2	Demonstrate knowledge in analyzing Type fonts				K2
CO3	Illustrate skills to develop layouts with appropriate fonts as per the task				K3
CO4	Modify existing fonts to match a need.				K5
CO5	Develop a book exercising the learning using appropriate types, fonts and layouts				K6

Mapping Course Outcome VS Programme Outcomes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	3	1	1	1	2	1	1	1
CO2	3	3	3	1	1	1	2	1	1	1
CO3	3	3	3	1	1	1	2	1	1	1
CO4	3	3	3	1	1	1	2	1	1	1
CO5	2	2	2	2	2	2	2	2	2	2
W. AV	2.8	2.8	2.8	1.2	1.2	1.2	2	1.2	1.2	1.2

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	2	2	2	2
CO2	2	2	2	2	2
CO3	2	2	2	2	2
CO4	2	2	2	2	2
CO5	2	2	2	2	2
W. AV	2	2	2	2	2

Allied	81837	Illustration	P	Credits-4	Hours - 5
Objectives	<ul style="list-style-type: none"> • Introduce students to the history of Illustration. • Familiarize with the tools of illustration. • Impart silks on Contextual Visual development Techniques. • Develop skills to develop illustrations for stories. • Enhance illustration sensibilities by analyzing graphic novels 				
Unit I	Brief history of Illustration: Golden Era of American illustrators - Indian illustrators.				
Unit II	Illustration techniques and tools - Using traditional mediums and techniques for various topics.– Different styles of illustration and media (line drawing, water colour, acrylic painting, mixed media, collage, digital illustration. – Exploration of various styles through inspiration.				
Unit III	Visual development techniques based on the context - Understanding and interpreting an idea/concept/ and interpreting it into a visual language for a non-fictional article – Spot illustration characteristics – narrative / technical – Technique and colour scheming. – Rough sketching of the illustration concept				
Unit IV	. Story illustration - Visual narration illustration or sequential storytelling understanding the target audiences and age groups– Children book illustration poetry, etc.				
Unit V	Graphic Novel: Exploration of various styles – Graphic Narrative – realistic, unrealistic, surrealist, graphic, cartoony, and others.				
Reference and Textbooks					
<ul style="list-style-type: none"> • <i>Andrew Loomis, Creative Illustration, Thames and Hudson.</i> • <i>Marcos Mateu, and Jeffery Katzenberg, Framed Ink: Drawing and Composition for Visual Storytellers, Design Studio Press; Illustrated edition, 2010.</i> • <i>Darrel Rees, How to be an Illustrator, Laurence King Publishing.</i> • <i>Ravi Paranjape, My world of Illustration, The Ravi Paranjape Foundation.</i> • <i>Walt Reed, The Illustrator in America, 1860-2000, The Society of Illustrators</i> 					
Web Resources					
Course Outcomes					Knowledge Level
CO1	Relate illustrations with their evolutionary timelines.				K1
CO2	Demonstrate skills in applying relevant tools to create illustrations.				K2
CO3	Determine the right blend of visual techniques based on the contextual need.				K5
CO4	Develop illustrations for stories				K6
CO5	Assess graphic novels for their illustration content				K5

Mapping Course Outcome VS Programme Outcomes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	1	1	3	2	2	1	1	1	1
CO2	3	1	1	3	2	2	1	1	1	1
CO3	3	1	1	3	2	2	1	1	1	1
CO4	3	1	1	3	2	2	1	1	1	1
CO5	3	1	1	3	2	2	1	1	1	1
W.Av	3	1	1	3	2	2	1	1	1	1

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	2	2	3	3
CO2	2	2	2	3	3
CO3	2	2	2	3	3
CO4	2	2	2	3	3
CO5	2	2	2	3	3
W. AV	2	2	2	3	3

SEMESTER IV

CC	81843	Aesthetics in Design	P	Credits-2	Hours -3
Objectives	<ul style="list-style-type: none"> • To familiarize with the history of design and the evolution of aesthetic sensibilities. • To understand the role of aesthetics in present design and development. • To develop an appreciation for the contributions of culture in aesthetics. • To educate about the elements of Vernacular and Indian aesthetics. • To learn the role of aesthetics in product design through practice. 				
Unit I	Design history. The historical social and cultural developments that punctuated the birth and development of design as a discipline. Understanding the term ‘aesthetics’, different designs in the world, Scandinavian, Modern, Minimal, Bauhaus, and Bohemian. Evolution of aesthetics across the world, history of various designs, Implementation and innovations in various aesthetics and its history. - World aesthetics in Art, architecture, Music, Fashion, Dance, Religion & Folk.				
Unit II	Product Aesthetics-product identity-Useability-Aesthetics of flow-Emotional aspects of product aesthetics.				
Unit III	Cultural aspects of aesthetics, Global culture - social customs, family life, Housing, Clothing, food, Class structure, Value system, and study of design festivals.				
Unit IV	Indian Aesthetics - Different types of Indian paintings, Handicrafts across India, Sculpture styles varying across India, Indian languages and scripts, Traditional dance forms – Tamil Aesthetics				
Unit V	Aesthetics in design – Sketch, ideation of inspired design, case studies.				
Reference and Textbooks					
<ul style="list-style-type: none"> • <i>S.G.Kulkarni, Art, Aesthetics and Philosophy: Reflections on Coomaraswamy, D.K Printworld (P)Ltd</i> • <i>Priyadarshi Patnaik (2013), Rasa in Aesthetics: An Application of Rasa Theory to Modern western Literature, DK Printworld (p) Ltd.,</i> • <i>Shyamala Gupta (1991), Art, Beauty and Creativity: Indian and Western Aesthetics, DK Printworld (p) Ltd.</i> 					
Web Resources					

Course Outcomes		Knowledge Level
CO1	Relate and classify the aesthetic components of a product based on its design evolution.	K2
CO2	Assess and appreciate the effect of aesthetics in a product.	K5
CO3	Interpret the cultural ingredients in the aesthetic elements of a product.	K5
CO4	Develop an appreciation for the role of regional aesthetics in product design.	K6
CO5	Construct a product to demonstrate to emphasize the role of aesthetics in product design.	K6

Mapping Course Outcome VS Programme Outcomes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	2	1	-	1	3	3	1	2	3
CO2	3	2	1	1	1	3	3	1	2	3
CO3	3	1	1	-	1	3	3	1	2	3
CO4	3	1	1	-	1	3	3	1	2	3
CO5	3	2	1	2	1	3	3	2	2	3
W. AV	3	1.6	1	0.6	1	3	3	1.2	2	3

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	3	3	3	3
CO2	2	3	3	2	3
CO3	2	3	3	2	3
CO4	2	3	2	2	3
CO5	3	3	2	2	2
W. AV	2.2	3	2.6	2.2	2.8

CC	81844	Research Methodology	P	Credits- 2	Hours -3
Objectives	<ul style="list-style-type: none"> To familiarize with the types of research. To educate the nuances of research in design. To develop capabilities to formulate a research problem. To understand the process of data collection, analysis and synthesis for research. To design and develop a product to exercise learnings in design research 				
Unit I	Introduction to Research: Types of Research - Quantitative and Qualitative Research Methodology- Conducting the Literature Review				
Unit II	Introduction to design research –difference between scientific research and design research – types of design research – research in design vs research by design – design premise and detailed design brief				
Unit III	Selecting a research area - Writing an Abstract - Formulating research aim - Objectives and research questions - Developing Hypothesis - Questionnaire design –Psychophysical scales - Various methods of Data Collection - Collecting Primary data and Secondary data				
Unit IV	Direct observation and activity analysis –Prototyping as a research tool - Photography as a data collection method - Data Analysis and Findings - Research Conclusion.				
Unit V	Develop a simple product of choice and draw insights into design research by comparing and adding existing understanding on research by design - Documentation –Project Writing.				
Reference and Textbooks					
<ul style="list-style-type: none"> <i>Qualitative Research & Evaluation Methods, Michael Quinn Patton, Sage Publications, 3rd edition , 2002</i> <i>Case Study Research :what, why and how?, Peter Swanborn, Sage Publications, 2010</i> <i>Research Design: Qualitative, Quantitative and Mixed Methods Approaches, John Creswell W, Sage Publications, 3rd edition , 2009</i> <i>Wimmer & Dominic (2014) Mass media research, An introduction. Thomson publishing company.</i> 					
Web Resources					

Course Outcomes		Knowledge Level
CO1	Express a know-how of the types of research methods.	K2
CO2	Determine and justify the choice of design research method	K5
CO3	Construct a design research problem	K6
CO4	Show capabilities to analyse and synthesize research data	K2
CO5	Interpret design research knowledge through project execution	K5

Mapping Course Outcome VS Programme Outcomes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	-	-	1	1	2	2	2	3
CO2	3	3	1	-	1	1	2	2	2	3
CO3	3	2	2	-	1	1	2	2	2	3
CO4	3	2	2	-	1	1	2	2	2	3
CO5	3	3	1	1	1	2	3	3	3	3
W. AV	3	2.6	1.2	0.2	1	1.2	2.2	2.2	2.2	3

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	1	3	2	2
CO2	3	3	3	3	3
CO3	3	2	3	2	2
CO4	3	1	3	1	2
CO5	3	3	3	3	3
W. AV	3	2	3	2.2	2.4

CC	81845	Digital Design Tools	P	Credits -3	Hours -4
Objectives	<ul style="list-style-type: none"> • Introduce students to basic 2D graphic digital design tools, their use, possibilities and limitations • Introduce students to basic 3D graphic digital design tools, their use, possibilities and limitations • Introduce students to basic AI graphic digital design tools, their use, possibilities and limitations • Emphasise the commonalities and differences between conventional and AI design tools • Develop a comprehensive understanding of the use of digital design tools in product design through a project. 				
Unit I	Introduction to basic 2D graphic digital design tools – tools and techniques – digital representation techniques – optimize workflow – rendering techniques and applications.				
Unit II	Introduction to basic 3D graphic digital design tools – tools and techniques - skills for three - dimensional modelling – Understanding NURBS (Non-Uniform Rational Basis Spline) - 2D line drawings - 3D construction drawings - add materials on to the 3D model - Customize materials with textures, colours and labels. Rendering (with sunlight and materiality) - Parts Assemblies				
Unit III	AI tools to generate graphic designs. Explore the various tools available. Generate both 2D and 3D compositions using AI tools. Evaluate the tools for their usage and effectiveness.				
Unit IV	Project I: Use traditional digital design tools in the ideation, concept design, development and presentation. Use AI digital design tools in the ideation, concept design, development and presentation. Understand the gaps between conventional design tools and AI tools. Context pitfalls using AI tools by studying the output.				
Unit V	Project II: Design a Product create visuals for the same. Create instruction manuals/ flyers/ propaganda visuals for the same product using conventional Design tools				
Reference and Text books					
<ul style="list-style-type: none"> • <i>K Balasundaram; S V Parthasarathy, Technical Drawing: With an Introduction to Autocad</i> • <i>Mark von Wodtke, Design with Digital Tools: Using New Media Creatively, Mc-Graw Hill, 2000</i> • <i>Albert Tetteh Adjei, Digital Artistry: Mastering Digital Tools and Techniques for Visual and Graphic Design: Mastering Visual Design with Efficient Tools, Techniques, and Creative Skills, 2023</i> • <i>Barrett Williams, Digital Art and Illustrations: Master the Tools and Techniques for Creating Eye-catching Digital Artworks, 2023</i> 					
Web Resources					

Course Outcomes		Knowledge Level
CO1	Create designs using 2D digital design tools	K6
CO2	Create designs using 3D digital design tools	K6
CO3	Generate designs using AI design tools	K4
CO4	Develop an appreciation for the effectiveness of conventional vs AI digital design tools based on their applicability	K6
CO5	Express an understanding of the nuances of the digital design tools by executing a project.	K2

Mapping Course Outcome VS Programme Outcomes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	1	1	1	3	1	1	1	1	1	1
CO2	1	1	1	3	1	1	1	1	1	1
CO3	1	1	1	3	1	1	1	1	1	1
CO4	1	1	1	3	1	1	1	1	1	1
CO5	1	1	1	3	1	1	1	1	1	1
W. AV	1	1	1	3	1	1	1	1	1	1

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	1	1	1	1
CO2	1	1	1	1	1
CO3	1	1	1	1	1
CO4	1	1	1	1	1
CO5	1	1	1	1	1
W. AV	1	1	1	1	1

CC	81846	Publication Design and Printing	P	Credits-4	Hours -5
Objectives	<ul style="list-style-type: none"> • Introduce students to contemporary publication practices. • Familiarize students with the various methods in Printing. • Understand the nuances of publication design by designing the layout. • Gain knowledge to create publications for specific genres. • Train students for user specific publication designs 				
Unit I	Introduction to publication (newspapers, magazines, books, leaflets and pamphlets, shade cards, prospectus, brochures and catalogs, annual reports, menu cards, zines, journals, coffee table books, pop up books etc). - (front cover, back cover, spine, title page, half title page, end papers, acknowledgements page, colophon, ISBN code on the back cover etc.) – Different Types and sizes of papers - Binding methods (section binding, Coptic binding, Japanese binding, spiral and wire binding, Centre-staple binding, accordion books etc.).				
Unit II	Printing Methods - Historical development of screen printing, introduction, nature and scope, applications of screen printing, advantages and limitations, Offset printing & Digital printing technology, Colour printing – Process, applications - Types of dryers, Print problem identification and quality control, Embossing and debossing, blind embossing, die cutting, laminating, spot uv coating, glow in the dark ink, metallic foil stamping, holograms etc.				
Unit III	Designing a publication that involves exploring with the form, application of the learning of layouts and grids and selecting appropriate binding techniques and printing effects.				
Unit IV	Designing a magazine/zine for any genre/topic.				
Unit V	Designing a children book for any topic – Book size, shape exploration.				
Reference and Textbooks					
<ul style="list-style-type: none"> • Roy Paul Nelson, <i>Publication Design</i>, William C. Brown Publishers. • Niill Board, <i>The Complete Book of Printing Technology</i>, Asia Pacific Business Press. • Heidi Tolliver-Nigro, <i>Designer's Printing Companion</i>, National Association for printing Leadership (NAPL). • Timothy Samara, <i>Making and Breaking the Grid: A Graphic design layout</i>, Rockport Publishers. • <i>Making and Breaking the Grid: A Graphic design layout workshop</i>, Timothy Samara, Rockport Publishers, 2002 • <i>Greatest Hits of Corporate Layouts</i>, 2005 					
Web Resources					

Course Outcomes		Knowledge Level
CO1	Practice relevant contemporary publication practices as applicable to the task.	K3
CO2	Classify the various methods in Printing.	K4
CO3	Generate design layouts that are applicable to the publication's intent.	K4
CO4	Create publications for specific genres	K6
CO5	Develop user specific publication designs	K3

Mapping Course Outcome VS Programme Outcomes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	3	1	1	1	2	1	1	1
CO2	3	3	3	1	1	1	2	1	1	1
CO3	3	3	3	1	1	1	2	1	1	1
CO4	3	3	3	1	1	1	2	1	1	1
CO5	2	2	2	2	2	2	2	2	2	2

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	2	2	2	2
CO2	2	2	2	2	2
CO3	2	2	2	2	2
CO4	2	2	2	2	2
CO5	2	2	2	2	2
W. AV	2	2	2	2	2

Allied	81847	Applied Ergonomics	P	Credits- 4	Hours -5
Objectives	<ul style="list-style-type: none"> To educate about the types and elements of ergonomics in play in daily life. To explore the ergonomics and physiological factors in play during tool usage. To understand the ergonomic factors and principles in play when designing for humans with various capacities. To introduce ergonomic factors pertaining to the workspace under study. To design and develop a product addressing an identified ergonomic factor to be improved. 				
Unit I	Introduction to ergonomics, history, types of ergonomics. Basic Physiology, Nervous system, Motor system, anthropometry, percentiles. Applicability of ergonomic principles in daily life – physical ergonomics.				
Unit II	Percentiles. Types of body. Ergonomic stressors. Causes of Fatigue, Types of grips/holds. Gait analysis. Proprioception. Visual Ergonomics, Auditory ergonomics. Human Machine Interfaces – Product designs- domestic and industrial spaces. Ergonomic/Human factors tools in design.				
Unit III	.Cognitive Ergonomics. Perception, Cognition, Cognitive load. Norman’s seven stages of action. Ergonomic considerations for children, adults and the elderly. Ergonomic considerations for special people. Ergonomic factors in rehabilitation device design.				
Unit IV	Ergonomic considerations in space design. Work spaces like shop floor, work benches, hospitals, schools etc., Ergonomic considerations in the kitchen and other domestic spaces. Agricultural tool design.				
Unit V	Identification of a point of improvement in a product. Ergonomic factors to be improved- ergonomic stressors. Development and ergonomic testing of the envisaged product Presentation of the product developed.				
Reference and Textbooks					
<ul style="list-style-type: none"> Engr MD Nursyazwi Mohammad, GreannaFrivaJainal, <i>Ergonomics In Design: Ergonomics Book For Beginners</i>, CreateSpace,2013 Marcelo M. Soares (Editor), Francisco Rebelo, <i>Ergonomics in Design</i>, CRC press, 2019 Valerie J. Rice , <i>Ergonomics in Health Care and Rehabilitation</i>, Butterworth-Heinemann, 1998 Valerie J. Berg Lueder, Rani, <i>Ergonomics for Children Paperback</i>, CRC press,2019 					
Web Resources					

Course Outcomes		Knowledge Level
CO1	Describe the ergonomic principles that govern any product usage in our daily life	K1
CO2	Illustrate capabilities to evaluate a product or a task based on its ergonomic considerations.	K2
CO3	Examine an audience and identify the ergonomic factors that are applicable	K4
CO4	Choose relevant ergonomic factors to be considered to the space and product being designed	K6
CO5	Estimate the changes/improvements in a product based on ergonomic factors	K6

Mapping Course Outcome VS Programme Outcomes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	3	3	1	2	2	2	3	3
CO2	3	3	2	3	-	1	2	1	2	2
CO3	3	2	1	3	-	2	2	1	3	3
CO4	3	2	1	3	1	2	3	2	3	3
CO5	3	3	2	3	2	3	3	2	3	3
W. AV	3	2.6	1.8	3	0.8	2	2.4	1.6	2.8	2.8

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	2	3	2	2
CO2	3	3	3	2	2
CO3	3	3	3	2	2
CO4	3	3	3	2	2
CO5	3	3	3	3	2
W. AV	3	2.8	3	2.2	2

DSE	81848	Project- I Information and Data Visualization	P	Credits- 4	Hours -4
Objectives	<ul style="list-style-type: none"> • Apprise students about the different types of Data • Educate students about the fundamentals of Visualizing Data • Introduce students to the nuances of Giga Maps • Impart training of designing context based data visualization • Enhance the understanding of Data Visualization techniques through practice. 				
Unit I	Introduction to data - types of data –static and dynamic data- Introduction to data analysis				
Unit II	Fundamentals of data visualization – data hierarchy-interaction and story building				
Unit III	Giga maps-types of giga maps-content-structural and functional				
Unit IV	Contextual data visualization nuances and details.				
Unit V	Development of a data visualization poster/visual of a chosen data set. Display/Exhibition/ Presentation/Screening/Feedback.				
Reference and Textbooks					
<ul style="list-style-type: none"> • <i>Jeffrey D. Camm, James J Cochran/Michael J. Fry, Jeffrey W. Ohlmann, Data Visualization: Exploring and Explaining with Data, Cengage Learning India Pvt. Ltd.2022</i> • <i>Edward R. Tufte, Envisioning Information, Graphics Press USA,1990</i> • <i>Edward R. Tufte, The Visual Display of Quantitative Information, Graphics Press USA,2001</i> 					
Web Resources					

Course Outcomes		Knowledge Level
CO1	Label the different types of Data.	K1
CO2	Illustrate skills in fundamentals of Visualizing Data	K2
CO3	Generate Giga Maps to visualize big Data	K4
CO4	Design data visualization concepts based on the context	K6
CO5	Practice Data Visualization techniques.	K3

Mapping Course Outcome VS Programme Outcomes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	3	1	1	1	2	1	1	1
CO2	3	3	3	1	1	1	2	1	1	1
CO3	3	3	3	1	1	1	2	1	1	1
CO4	3	3	3	1	1	1	2	1	1	1
CO5	2	2	2	2	2	2	2	2	2	2
W. AV	2.8	2.8	2.8	1.2	1.2	1.2	2	1.2	1.2	1.2

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	2	2	2	2
CO2	2	2	2	2	2
CO3	2	2	2	2	2
CO4	2	2	2	2	2
CO5	2	2	2	2	2
W. AV	2	2	2	2	2

SEMESTER V

CC	81851	Sustainable design	P	Credits-4	Hours -6
Objectives	<ul style="list-style-type: none"> To educate about the relevance of human evolution and design of tools. To familiarise with the elements of sustainable design practices. To emphasize about the types of sustainable design. To familiarise with the material considerations in sustainable design. To comprehend sustainable design in contemporary times through a project. 				
Unit I	The evolution of Design as a discipline and its relationship to the environment. The important tools that shaped humankind. The discoveries and inventions that have influenced the world. The relationship of design to technology, art and craft and our daily life.				
Unit II	Introduction to Sustainable design – Definition – applications sustainable materials and practices.				
Unit III	Design for recycle - design for up-cycle - design for re-use.				
Unit IV	Sustainable materials and practices- choice of materials				
Unit V	Presentation in the form of a seminar/ poster that depicts the sustainable practices in contemporary world.				
Reference and Textbooks					
<ul style="list-style-type: none"> David Raizman; <i>History of Modern Design</i>, Prentice Hall, 2004 - Cross, N; <i>Design Thinking</i>; John Heskett, <i>Industrial Design, Thames, and Hudson</i>, 1987 Victor Papanek, <i>Design for the real world: Human Ecology and Social change</i>, Academy Chicago Publishers, 1971 http://designhistorytimeline.com/ - <i>Journal of Design History</i>, Oxford Journals Charles Darwin, <i>The Origin of Species</i>, Fingerprint publications, 2013 Richard Levins, <i>Biology as Ideology: The Doctrine of DNA</i>, HarperPerennial, 1993 JC Wandemberg. (2015), <i>Sustainable by design</i> Fuad-Luke Alastair. (2010), <i>ecoDesign: The Sourcebook: Third Fully Revised Edition</i>, Chronicle Books McLennan Jason. (2004), <i>The Philosophy of Sustainable Design</i>, Ecotone Publishing Company LLC 					
Web Resources					

Course Outcomes		Knowledge Level
CO1	Relate products in daily use to their evolutionary roots	K2
CO2	Expresses knowledge about sustainable design practices in daily life	K2
CO3	Assess the applicability of the type of sustainable design practices for a given problem	K5
CO4	Choose the appropriate material for the designed sustainable solution	K6
CO5	Develop a product with sustainable design considerations	K6

Mapping Course Outcome VS Programme Outcomes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	2	3	2	3	2	2	2	3	3
CO2	3	2	3	2	3	2	1	2	3	3
CO3	3	2	3	2	3	1	2	2	3	3
CO4	3	2	3	2	3	2	1	2	3	3
CO5	3	2	3	2	3	2	2	2	3	3
W. AV	3	2	3	2	3	1.8	1.6	2	3	3

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
W. AV	3	3	3	3	3

CC	81852	Advanced Typography	P	Credits-2	Hours -2
Objectives	<ul style="list-style-type: none"> Align the students with the basic elements of Typography Educate the students about critical analysis of Typography Impart knowledge about the various embedded qualities of Type like emotions etc., Enhance and extend the knowledge of typography to vernacular scripts Make a new Type for a target user pertaining to a particular application. 				
Unit I	Recap of elements of Typography. Type families, anatomy of typeface, layouts. A minor project: Creation of a signage system for a common space in the campus (like library, canteen, parking lot etc) after user study and ideation.				
Unit II	Case Study of typography failures. Critical analysis of Type in daily usage. Analysis of types in Newspapers, flyers, hoardings, Magazines, Campaigns, digital screens, curved surfaces like ship hulls, aircrafts, etc. Role of colour in Type design.				
Unit III	Communicative and Expressive qualities of Type forms. Emotions through Types. 3D type forms. Use of local materials to build types. Apply motion graphic principles to type. Creating Typographic designs for posters, T-shirts, Product graphics. Political signages.				
Unit IV	Understanding the regional languages and its scripts –Epigraphy, it’s history and evolution to modern day script, Research, Relation between rhyme and form - Case study and documentation.				
Unit V	Design a new font for any language for a particular application. Detailed user study shall be done to create type. Testing for the created font with target user. Detailed documentation of the process and the style sheets for the font shall be recorded.				
Reference and Textbooks					
<ul style="list-style-type: none"> <i>Kristin Cullen, Design elements, typography fundamentals: A graphic style manual for understanding how typography affects design, Rockport Publishers.</i> <i>Alexander Branczyk & Jutta Nachtwey, Emotional Digital: Source Book of Contemporary Typographics, Thames & Hudson.</i> <i>Rob Carter, Ben Day & Philip Meggs, Typographic Design: Form and Communication, Rockport Publishers.</i> <i>John Southward and Arthur Powell, Practical printing: a handbook of art of typography, J.M.Powell & Son.</i> <i>John Southward, Dictionary of Typography and its Accessory Arts, Powell Publisher.</i> 					
Web Resources					

Course Outcomes		Knowledge Level
CO1	Recall the elements and principles of Typography	K1
CO2	Evaluate types critically	K5
CO3	Examine types for their embedded expressive qualities	K4
CO4	Compose vernacular fonts conforming to typographic principles.	K6
CO5	Formulate a new font system for a particular application/user	K6

Mapping Course Outcome VS Programme Outcomes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	3	1	1	1	2	1	1	1
CO2	3	3	3	1	1	1	2	1	1	1
CO3	3	3	3	1	1	1	2	1	1	1
CO4	3	3	3	1	1	1	2	1	1	1
CO5	2	2	2	2	2	2	2	2	2	2
W. AV	2.8	2.8	2.8	1.2	1.2	1.2	2	1.2	1.2	1.2

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	2	2	2	2
CO2	2	2	2	2	2
CO3	2	2	2	2	2
CO4	2	2	2	2	2
CO5	2	2	2	2	2
W. AV	2	2	2	2	2

CC	81853	Branding and Advertising	P	Credits- 4	Hours -6
Objectives	<ul style="list-style-type: none"> • Introduce the students to the concepts and elements of advertising. • Recognize the various facets and avenues of advertising. • Familiarize with the nuances of branding. • Enhance the understanding of advertisement/branding by developing a concept • Design and advertisement for a product to exercise the learning in the course 				
Unit I	Introduction to Visual Culture – Introduction to advertising- and advertising – Types of advertising – Advertisement agency – Structures and functions – Ethics – Advertising campaign.				
Unit II	Advertisement design. Billboard culture, means of public displays - Evolution and possibilities in print media - Design a print advertisement for any product and Public service (PSA). Multi-media advertising. Use of audio-visual mediums for advertisement design.				
Unit III	Difference between advertisement and branding. Brand identity, Brand analysis and synthesis – Story Telling. User behaviour study, Value, Story, and Placement.				
Unit IV	Client research – Customer study – Ideation – Concept development for Advertisement across media like TV, Radio, Social and Digital Media				
Unit V	Script Writing – Storyboarding – Scheduling – Production – Postproduction. Produce thirty seconds or one minute advertisement for a product.				
Reference and Textbooks					
<ul style="list-style-type: none"> • <i>Marita Sturken & Lisa Cartwright, Practices of looking: An Introduction to visual culture, Oxford University Press.</i> • <i>Nicholas Mirzoeff, Visual culture Reader, Routledge Publication.</i> • <i>Jane Kromm & Susan Benforado Bakewell, History of Visual Culture: Western civilization from the 18th to the 21st century, BERG.</i> • <i>Arun Chaudhuri, Indian Advertising: Laughter and Tears-1950-2013, Niyogi Books</i> • <i>Sarang Padhye, Screenwriting for Video Commercials, Kindle Edition.</i> 					
Web Resources					

Course Outcomes		Knowledge Level
CO1	Relate any advertisement campaign to its elements	K1/K2
CO2	Analyze the various facets and avenues of advertising.	K4
CO3	Interpret the branding strategy	K5
CO4	Formulate an advertisement concept/campaign	K6
CO5	Develop an advertisement for a product/service	K6

Mapping Course Outcome VS Programme Outcomes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	1	1	1	1	2	2	1	1
CO2	3	3	1	1	1	1	2	2	1	1
CO3	3	3	1	1	1	1	2	2	1	1
CO4	3	3	1	1	1	1	2	2	1	1
CO5	2	2	2	2	2	2	2	2	2	2
W. AV	2.8	2.8	1.2	1.2	1.2	1.2	2	2	1.2	1.2

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	2	2	2	2
CO2	2	2	2	2	2
CO3	2	2	2	2	2
CO4	2	2	2	2	2
CO5	2	2	2	2	2
W. AV	2	2	2	2	2

Allied	81854	Animation and Story Telling	P	Credits- 4	Hours -6
Objectives	<ul style="list-style-type: none"> • Introduce students to animation pipeline and the animation styles • Familiarize students about the stages of animation production • Train students in the basic principles and elements of animation. • Develop an understanding of basic character development through practice. • Learn to create a detailed and complete animation snippet with multiple characters and voice. 				
Unit I	Revisit drawing and Sketching fundamentals. Understanding the Animation Film making pipeline. Pre-production, Production and Post-Production. Types of animation styles -2D,3D,stop motion, motion graphics.				
Unit II	Pre-production:Story Development, Script Writing, Design, Storyboarding, Animatic Production : Layout, modelling, visual effect enhancement, lighting and rendering. Post Production : Compositing, visual enhancement, Colour correction and final rendering.				
Unit III	Introduction to the Animation Principles - Basic animation such as Bouncing Ball, Pendulum – Frames in Animation. Wave principle - Animating an action using simple character.Designing and developing a character based on a brief description – Poses – Gestures - Facial expressions and Model sheet.				
Unit IV	Project I : Basic project to understand the pipeline. A 15 second animation strip with one character shall developed following the animation pipeline.				
Unit V	Project II : An advanced 30 second animation content with multiple characters and sound shall be created. This project shall follow the complete design process.				
Reference and Textbooks					
<ul style="list-style-type: none"> • <i>Richard E. Williams, The Animator's Survival Kit, Faber & Faber Publication</i> • <i>Julius Wiedemann, Animation Now, Taschen GmbH.</i> • <i>Peter Lord & Brian Sibley (2004), Cracking Animation, Thames & Hudson.</i> • <i>Andrew Chong (2008), Basic Animation: Digital Animation, 1st Ed, Academic Press.</i> 					
Web Resources					

Course Outcomes		Knowledge Level
CO1	List the types of animation styles and the production stages involved	K1
CO2	Describe the stages of animation film production	K1
CO3	Express a know-how of the stages and details involved in animation film making	K2
CO4	Illustrate expertise in designing a character for an animation movie	K2
CO5	Create an animation content independently.	K6

Mapping Course Outcome VS Programme Outcomes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	1	1	3	2	2	1	1	1	1
CO2	3	1	1	3	2	2	1	1	1	1
CO3	3	1	1	3	2	2	1	1	1	1
CO4	3	1	1	3	2	2	1	1	1	1
CO5	3	1	1	3	2	2	1	1	1	1
W. AV	3	1	1	3	2	2	1	1	1	1

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	2	2	3	3
CO2	2	2	2	3	3
CO3	2	2	2	3	3
CO4	2	2	2	3	3
CO5	2	2	2	3	3
W. AV	2	2	2	3	3

Allied	81855	AI for Design	P	Credits-2	Hours -2
Objectives	<ul style="list-style-type: none"> Enhance understanding of design process by doing a low fidelity project Introduce students to the history and evolution of AI Familiarize students about the different types of AI Emphasise the effect of AI by executing a design project using AI tools Enhance the understanding of AI tools in design by comparing the results with conventional design process methods. 				
Unit I	Project I : conduct a design project. Design and develop a product with conventional design process.				
Unit II	History of AI. How does AI work ?. AI applications-self driving cars, personalised services and products, Intelligent and responsive spaces. Context sensitive devices.				
Unit III	Types of AI – Narrow AI, General AI, Learning Engines - Supervised, Unsupervised, Reinforced and Transfer. Cognitive Computing. AI tools and their applications.				
Unit IV	Project II. Use AI tools in the Design process for the same brief as Project I. Use AI tools in user survey, data analysis, idea generation, product development.				
Unit V	Catalogue the differences between Project I and Project II in design process, Idea generation and evaluation and product development. Develop insights about application of AI in design				
Reference and Textbooks					
<ul style="list-style-type: none"> <i>Oliver Theobald, AI for Absolute Beginners: A Clear Guide to Tomorrow, Kindle edition, 2023</i> <i>Nick Bostrom, Superintelligence: Paths, Dangers, Strategies, Oxford University Press, 2016</i> <i>Max Tegmark, Life 3.0, Vintage, 2018</i> <i>Stuart Russell, Human Compatible: Artificial Intelligence and the Problem of Control, Penguin Books, 2020</i> <i>Helen Armstrong, Keetra Dean Dixon, Big Data, Big Design: Why Designers Should Care about Artificial Intelligence, Princeton Architectural Press, 2021</i> <i>David Jacobson, Human Factors and UX in the Age of AI: User Experience Design in the Age of Artificial Intelligence Paperback, 2023</i> 					
Web Resources					

Course Outcomes		Knowledge Level
CO1	Recall conventional Design process through practice	K1
CO2	Outline the history and evolution of AI	K2
CO3	Illustrate knowledge of the different types and flavors of AI tools	K2
CO4	Solve a design problem using AI tools in design process	K6
CO5	Identify the avenues for AI tools in design.	K3

Mapping Course Outcome VS Programme Outcomes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	3	3	3	3	3	3	3	3
CO2	3	3	3	3	3	3	3	3	3	3
CO3	3	3	3	3	3	3	3	3	3	3
CO4	3	3	3	3	3	3	3	3	3	3
CO5	3	3	3	3	3	3	3	3	3	3
W. AV	3	3	3	3	3	3	3	3	3	3

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
W. AV	3	3	3	3	3

DSE	81856	Project II - Systems Design	P	Credits- 4	Hours -6
Objectives	1.To enable the students to realise the relevance between design and systems view. 2.To address design problems through systems design. 3.To emphasize the interactions between subsystems and systems. 4.To understand systems in daily life through design analysis. 5. To create a system design intervention in an identified system to develop systems thinking.				
Unit I	System Thinking - Design Thinking and System Thinking from Design perspective - The Fifth Discipline approach - Scenario Maps and Metaphors				
Unit II	Problem Solving - Design of system level solutions				
Unit III	Complex Systems Understanding – strategizing - conceptualizing and designing for complex systems- system -subsystem interaction				
Unit IV	System Design - Designing complex artefacts - Design solutions that are suitable for transportation – education – publishing - retailing				
Unit V	Project – with system level design solution - Research - Systems model - System design - Detail design – Giga Map – Final documentation				
Reference and Textbooks					
<ul style="list-style-type: none"> • Ulrich Fleischmann, (2013), Burkhardt Leitner System designer, Av Edition Gmbh • Bryan Lawson, (2005), How designers think: the design process demystified, 4th edition, Architectural Press • Richard Morris, (2009), Fundamentals of Product Design, Academic Press 					
Web Resources					

Course Outcomes		Knowledge Level
CO1	Express the importance of synthesizing design through system analysis	K2
CO2	Explain design problems through the lens of system design	K5
CO3	Determine design problems as an interaction between its subsystems	K5
CO4	Identify the systems in play in our daily life	K3
CO5	Create a design intervention with systems considerations	K6

Mapping Course Outcome VS Programme Outcomes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	1	-	1	2	2	3	2	3
CO2	3	3	-	-	2	2	2	3	3	3
CO3	3	2	-	-	1	3	2	3	2	3
CO4	3	2	2	-	2	2	2	3	2	3
CO5	3	3	2	2	2	2	3	3	3	3
W. AV	3	2.6	1	0.4	1.6	2.2	2.2	3	2.4	3

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	2	3	3	3
CO2	2	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	2	3	2	3
W. AV	2.6	2.6	3	2.8	3

OE	81857A	Theatre for Design	P	Credits- 2	Hours -2
Objectives	<ul style="list-style-type: none"> • Educate about the history of world drama • Familiarize with the various regional traditions of drama • Introduce set Design • Educate about the use of drama techniques in user research in Design • Learn Drama by practice 				
Unit I	History of world drama and theatre. National and regional history of drama. Commedia dell'arte, Greek Theatre Tradition, Medieval and Modern Theatre principles. South Asian Theatre, Ancient Tamil performing arts tradition.				
Unit II	Study Therukoothu, Yakshaghana, Koodiyattam theatre. Social, cultural and political influences in Drama				
Unit III	Design : Motifs, techniques, boundaries (what can be done and what cannot be) Materials and process involved in set and prop preparation. Context based design.				
Unit IV	Use of drama in Design process. Role play in User research. Useability testing. Voice training, Mind Training.				
Unit V	Project : Develop a Theatrical presentation for a given topic				
Reference and Textbooks					
<ul style="list-style-type: none"> • <i>Howard Risatti, A Theory of Craft: Function and Aesthetic Expression, The university of North Carolina Press,2013</i> • <i>Laura Price,Geographies of Making, Craft and Creativity, Routledge,2018</i> • <i>Gustav Freytag, Technique of the Drama: An Exposition of Dramatic Composition and Art, University Press of the Pacific, December 2004</i> • <i>Brenda Laurel and Peter Lunenfeld,Design Research: Methods and Perspectives,The MIT Press, October 2003</i> 					
Web Resources					

Course Outcomes		Knowledge Level
CO1	Express the importance of understanding the history of drama	K2
CO2	Explain the various regional drama/ theatre genres	K5
CO3	Determine design elements of drama.	K5
CO4	Identify the methods and practices to tailor a user study using techniques from theatre	K3
CO5	Create a skit	K6

Mapping Course Outcome VS Programme Outcomes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	1	-	1	2	2	3	2	3
CO2	3	3	-	-	2	2	2	3	3	3
CO3	3	2	-	-	1	3	2	3	2	3
CO4	3	2	2	-	2	2	2	3	2	3
CO5	3	3	2	2	2	2	3	3	3	3
W. AV	3	2.6	1	0.4	1.6	2.2	2.2	3	2.4	3

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	2	3	3	3
CO2	2	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	2	3	2	3
W. AV	2.6	2.6	3	2.8	3

OE	81857B	Craft Study - I	P	Credits- 2	Hours -2
Objectives	<ul style="list-style-type: none"> Educate about the history of the craft under study Introduce the materials and their properties appropriate for the craft being studied Educate by learning the foundation techniques of the craft. Familiarize with methods to tailor the craft to user needs. Educate comprehensively about the craft under study through a project <p>This course “ Craft Study I” shall be an avenue to explore indigenous and regional craft practices</p>				
Unit I	Historic and cultural aspects of the craft				
Unit II	Materials and process involved in material preparation				
Unit III	Design : Motifs, techniques, boundaries (what can be done and what cannot be)				
Unit IV	User preferences from the craft’s person’s perspective.				
Unit V	Project : Develop an artefact and present it.				
Reference and Textbooks					
<ul style="list-style-type: none"> Howard Risatti, <i>A Theory of Craft: Function and Aesthetic Expression</i>, The university of North Carolina Press, 2013 Laura Price, <i>Geographies of Making, Craft and Creativity</i>, Routledge, 2018 					
Web Resources					

Course Outcomes		Knowledge Level
CO1	Express the importance of understanding traditional craft practices	K2
CO2	Explain the choice of materials for the craft under study	K5
CO3	Determine design elements in the craft under study	K5
CO4	Identify the methods and practices to tailor a craft practice matching a user’s need.	K3
CO5	Create a design using the craft under study	K6

Mapping Course Outcome VS Programme Outcomes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	1	-	1	2	2	3	2	3
CO2	3	3	-	-	2	2	2	3	3	3
CO3	3	2	-	-	1	3	2	3	2	3
CO4	3	2	2	-	2	2	2	3	2	3
CO5	3	3	2	2	2	2	3	3	3	3
W. AV	3	2.6	1	0.4	1.6	2.2	2.2	3	2.4	3

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	2	3	3	3
CO2	2	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	2	3	2	3
W. AV	2.6	2.6	3	2.8	3

OE	81857C	Clay Modelling	P	Credits- 2	Hours -2
Objectives	<ul style="list-style-type: none"> Educate about the history of clay Introduce the preparation methods of clay Introduce the various techniques and methods involved in clay modelling Educate about clay modelling through personal explorations Educate clay modelling by doing a major team project 				
Unit I	Clay as a material. History of clay. Clay's role in cultures. Types of clay. Curation of clay. Clay and societies. Clay and tradition. Terracotta. Clay as building material.				
Unit II	Use of clay. Curation and mixing of additives. Natural fibre reinforcement. Clay throwing. Clay throwing. Potter's wheel. Burning. Conventional and Modern Kilns.				
Unit III	Techniques in clay. Additive and Elimination. Slabs. Carving. Clay Reliefs. Sculpting using clay.				
Unit IV	Project I : Basic projects in clay. Individual exploration				
Unit V	Project II : Team Project. Develop an artefact using clay as a team				
Reference and Textbooks					
<ul style="list-style-type: none"> Howard Risatti, <i>A Theory of Craft: Function and Aesthetic Expression</i>, The university of North Carolina Press, 2013 Laura Price, <i>Geographies of Making, Craft and Creativity</i>, Routledge, 2018 Mary Louisa Hermione Unwin, <i>A Manual of Clay-Modelling</i>, November 2022 Alice North and Halsey North, <i>Listening to Clay: Conversations with Contemporary Japanese Ceramic Artists</i>, Monacelli press, May 2022 					
Web Resources					

Course Outcomes		Knowledge Level
CO1	Express the importance of understanding traditional clay modelling practices	K2
CO2	Explain the methods of preparing clay	K5
CO3	Determine the appropriate clay modeling technique	K5
CO4	Identify the methods and practices to tailor a clay model	K3
CO5	Create a complex design using the clay as a material	K6

Mapping Course Outcome VS Programme Outcomes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	1	-	1	2	2	3	2	3
CO2	3	3	-	-	2	2	2	3	3	3
CO3	3	2	-	-	1	3	2	3	2	3
CO4	3	2	2	-	2	2	2	3	2	3
CO5	3	3	2	2	2	2	3	3	3	3
W. AV	3	2.6	1	0.4	1.6	2.2	2.2	3	2.4	3

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	2	3	3	3
CO2	2	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	2	3	2	3
W. AV	2.6	2.6	3	2.8	3

SEMESTER VI

CC	81861	Sound Recording and Design	P	Credits- 4	Hours -4
Objectives	<ul style="list-style-type: none"> • Introduction to sound theory, tools and processing practices • Educate the students about sound studio setup and practices • Familiarize students with the nuances of live recording • Enhance live recording techniques by recording for a specific video clip • Learn sound design by creating sound content for video snippets 				
Unit I	Sound Theory: Perception of Sound - Sound recording - Audio System and Equipment - Recording tools and techniques: Working with tracks - Mixing Hierarchies - Mixing Tests/Final – Sampling - Effects Processing - Pitch and Frequency. Types of Microphones, dynamic, condenser, ribbon and their applications				
Unit II	Introduction to Studio: Acoustics - Basic studio setup - Role of Sound Engineering in Film Industry - Studio Recording, Equipment - Features of Live Recording - Audio and MIDI - Music Production Techniques: Instrument recording - Recording rhythm track with MIDI. Sound composition.				
Unit III	Exploring live recording - Exploring Foley/Ambience Recording - Recording Process - Adding Effects and equalization - Creating a master track - Audio Clips and Samples - Sound editing - Saving and Exporting.				
Unit IV	Recording an audio track for an animation clip. Analog and digital recording. Noise removal. High quality audio recording without hear hums, hisses, microphone handling sounds, plosives, foreign noises.				
Unit V	Record an audio track for a video file (Duration: minimum of 3 mins) Experimental audio track. (Duration: minimum of 2 mins). Presentation and user testing of the created track.				
Reference and Textbooks					
<ul style="list-style-type: none"> • <i>Andrea Pejrolo, Creative sequencing techniques for music production, Focal Press, London, 2006.</i> • <i>Zack Price, Beginners Guide to Computer Based Music Production, Cherry Lane Music Company, 2004 .</i> • <i>Francis Rumsey, Tim McCormick, Sound & Recording Introduction, Focal Press, London, 2006.</i> 					
Web Resources					

Course Outcomes		Knowledge Level
CO1	Describe sound theory, tools and processing practices	K1
CO2	Illustrate capabilities to setup and use sound studio for acoustic synthesis and treatment.	K2
CO3	Show capabilities to do effective live recording and treat the content to improve its quality.	K2
CO4	Develop sound content for videos showcasing effective sound design practices.	K3
CO5	Compose/create a soundtrack for a given video	K6

Mapping Course Outcome VS Programme Outcomes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	1	1	3	3	3	3	1	1	1
1CO 2	3	1	1	3	3	3	3	1	1	1
CO3	3	1	1	3	3	3	3	1	1	1
CO4	3	1	1	3	3	3	3	1	1	1
CO5	3	1	1	3	3	3	3	1	1	1
W. AV	3	1	1	3	3	3	3	1	1	1

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
W. AV	3	3	3	3	3

CC	81862	Motion Graphics	P	Credits- 4	Hours -6
Objectives	<ul style="list-style-type: none"> • Introduce the students to the need, types and application of Motion Graphics • Educate the students about the process of video processing and production. • Enhance the understanding of motion graphics by introducing animation. • Enable students to explore motion graphics by executing projects • Impart presentation and user testing practices of motion graphic through a project. 				
Unit I	Basics of Motion Graphics: Graphics in movement. Need for motion graphics and its applications. Types of Motion Graphics. Emotive, Explainer and Promotional Motion Graphics.				
Unit II	Compositing and Rendering- Compilation of video, images, sound - Editing techniques and aesthetics, Types of editing, Linear editing, non-linear editing, montage, working with editing software, sequence editing, matching frames, video filters, titling, rendering and video processing.				
Unit III	After Effects tools and techniques - Motion tracking, shape layers, pen tool/masks, track mattes, blending modes - Pre-composing - Adjustment Layers, pick whip, null layers – Cameras - Graph editors - Pre-set Animations and effects. Audition tools and techniques - Sound recording – Multitrack - Sound mixing and editing – Export.				
Unit IV	Project I : Design Title card for Children’s movie Project II : Moving Data Visualization. Project III : Design a Moving Logo For all the projects, thorough design process shall be adhered to.				
Unit V	Final render and presentation of the projects. User testing of the same shall be done.				
Reference and Textbooks					
<ul style="list-style-type: none"> • <i>Austin Shaw, Design for Motion: Fundamentals and Techniques of Motion Design, 1st Edition, Focal Press.</i> • <i>Lisa Fridsma & Brie Gyncild, Adobe After Effects Classroom in a Book, Adobe Press</i> • <i>Heather Freeman, The Moving Image Workshop, Fairchild Books.</i> 					
Web Resources					

Course Outcomes		Knowledge Level
CO1	Explain the appropriate type of motion graphics is needed based on the target application.	K2
CO2	Show expertise in video processing and production.	K2
CO3	Relate motion graphics with techniques in animation	K2
CO4	Develop an effective motion graphic content based on the need and target user	K6
CO5	Examine a motion graphic content for its effectiveness	K6

Mapping Course Outcome VS Programme Outcomes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	3	3	3	3	3	2	2	2
CO2	3	3	3	3	3	3	3	2	2	2
CO3	3	3	3	3	3	3	3	2	2	2
CO4	3	3	3	3	3	3	3	2	2	2
CO5	3	3	3	3	3	3	3	3	3	3
W. AV	3	3	3	3	3	3	3	2.2	2.2	2.2

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	2	2	2	2
CO2	2	2	2	2	2
CO3	2	2	2	2	2
CO4	2	2	2	2	2
CO5	2	2	2	2	2
W. AV	2	2	2	2	2

CC	81863	Toy and Game Design	P	Credits- 4	Hours -6
Objectives	<ul style="list-style-type: none"> • Introduce students to play theories • Impart an understanding of the relationship between cognition and play • Emphasise about the details of toy design and development • Familiarize students with the constituents of Game design • Learn to design and develop a toy or a a game to practice the theories learnt in the course 				
Unit I	What is play ? Types of play. Play theories. - Play Pyramid. Child and adult play. Play and learning. Play therapy, play for diagnosis and rehabilitation. Culture, society and play. Dyadic play, Play spaces. Play rhythms.				
Unit II	Cognitive development theories. Jean piaget’s development milestones. Transitional object – Winnicot. Play and learning. Vygotsky’s Zone of proximal development. Flow theory.				
Unit III	What is a toy?. Types of toys. Toys for children. Basics of toy design, Aesthetics, and form. Ergonomics in Toy design. Therapeutic toys. Toys for the elderly. Toy as a tool.				
Unit IV	Elements of Game design. Themes and aesthetics in Games. Story telling for games. Goal oriented behaviour. Reward systems. Pleasure vs addiction. Game aesthetics. Social and cultural influences in games. Hybrid games.				
Unit V	Design a game or a toy for a target group/user. Design a toy/game for a target group/user. User survey, ideation. Material Selection. Development. User testing. Iterative design. Presentation.				
Reference and Textbooks					
<ul style="list-style-type: none"> • <i>D.W.Winnicot, Playing and Reality,Routledge,1971</i> • <i>Johan Huizinga, Homo LeudensA Study of the Play-Element in Culture, Angelico Press, 2016</i> • <i>Jean Piaget, Play, Dreams and Imitation in Childhood, Hassell Street Press,2021</i> • <i>Chris van, Toy Design, Thames and Hudson,2009</i> • <i>Gisli Thorsteinsson (Author), Dr Tom Page,The Value of Good Toy Design for Children,Lambert,2012</i> • <i>Jesse Schell, The Art of Game design, CRC Press,2019</i> • <i>Colleen Macklin, John Sharp,Games, Design and Play: A detailed approach to iterative game design, Addison-Wesley,2016</i> 					
Web Resources					

Course Outcomes		Knowledge Level
CO1	Define play, its types and constructs	K1
CO2	Relate to the cognitive aspects during play with a toy	K1
CO3	Express a thorough understanding of toy design and development	K5
CO4	Explain the details of game design and its strategy	K5/K2
CO5	Develop a toy or a game for a given audience/user	K6

Mapping Course Outcome VS Programme Outcomes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	3	3	3	2	2	1	1	1
CO2	3	3	3	3	3	2	2	1	1	1
CO3	3	3	3	3	3	2	2	1	1	1
CO4	3	3	3	3	3	2	2	1	1	1
CO5	3	3	3	3	3	3	3	3	3	3
W. AV	3	3	3	3	3	2.2	2.2	1.4	1.4	1.4

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
W. AV	3	3	3	3	3

Allied	81864	Packaging Design and Printing	P	Credits- 4	Hours -6
Objectives	<ul style="list-style-type: none"> • Introduce students to the fundamentals of packaging, it's need and function. • Educate students about the types of packaging and their methods • Develop an understanding of the material and graphic considerations in packages • Recognise the importance of the role of aesthetics in package design • Develop a thorough understanding of Packaging by practicing a design 				
Unit I	Introduction about Packaging and its use - Need for packaging - Functions of packaging - Types and selection of package - Packaging hazards - Interaction of package and contents - Shelf life-estimation - Packaging materials.				
Unit II	Different types of packaging- Primary, secondary and tertiary, its applications - Package design, Package specification, types of design - Luxe, bold, charming, casual, nostalgic, Crisp, Structural graphics., Packaging Methods and procedures, types of loads, unit loads, stacking load, elements and principles of design.				
Unit III	Materials used for packaging, Selection criteria, Package colour-selection criteria- applications -Package specification - graphic structure - fundamentals of graphic layout and design – mandatory information – codes and symbols – ergonomically relevant considerations – special printing / production technologies – understanding various types of material used for packaging like paper, board, plastic, polymers-based material. wood. jute, fabric, metal, glass, clay, cement etc.				
Unit IV	Fundamentals of graphic lay out design. Aesthetic considerations in Packaging. Product graphics. Cultural aspects. Future of Packaging. Sustainability aspects in packaging.				
Unit V	Design packaging for a product-keyline drawing, structure and graphics. Present a mock up.				
Reference and Textbooks					
<ul style="list-style-type: none"> • <i>Stacey King, Packaging Makeovers: Graphic redesign for market change, Rockport Publishers.</i> • <i>Howard Milton, Packaging Design, Design Council.</i> • <i>Marianne R. Klimchuk & Sandra A. Krasovec, Packaging Design: Successful Product Branding from Concept to Shelf, 2nd Edition, John Wiley & Sons Inc.</i> • <i>Packaging Makeovers: Graphic redesign for market change, Stacey King, Rockport Publishers</i> • <i>Packaging Design, Howard Milton, Design Council</i> 					
Web Resources					

Course Outcomes		Knowledge Level
CO1	Describe the need for packaging	K1
CO2	Identify the types of packaging	K3
CO3	Choose the best fit material and graphics as per the packaging need.	K5
CO4	Justify the role of aesthetics in package design	K5
CO5	Design a package for a product	K6

Mapping Course Outcome VS Programme Outcomes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	2	2	2	2	2	2	2	2	1	1
CO2	2	2	2	2	2	2	2	2	1	1
CO3	2	2	2	2	2	2	2	2	1	1
CO4	2	2	2	2	2	2	2	2	1	1
CO5	3	3	3	3	3	3	3	3	3	3
W. AV	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	1.4	1.4

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
W. AV	3	3	3	3	3

Allied	81865	Portfolio Skills	P	Credits-2	Hours -2
Objectives	<ul style="list-style-type: none"> To familiarise students to the constructs of a portfolio. To educate the students to appropriately curate the contents of a portfolio. To emphasize the importance of multimedia portfolio presentations. To impart training to make an effective portfolio. To highlight the importance of making effective portfolio presentations. 				
Unit I	Introduction to Portfolio Making – Different styles – Websites and Portals				
Unit II	Collection and preparation of the resources- Layout & compositions				
Unit III	Presentation of the Design Process - Show-Reel of the Animation work				
Unit IV	Portfolio development exercises				
Unit V	Mock presentations and submissions				
Reference and Textbooks					
<ul style="list-style-type: none"> <i>Debbie Rose Myers & Graphic Designer, (2009), Guide to Portfolio Design, John Wiley & Sons, Inc.</i> <i>Sara Eisenman, (2006), Building Design Portfolios (Innovative Concepts for Presenting Your Work), Rockport Publishers</i> <i>Craig Welsh, (2013), Design: Portfolio: Self-promotion at its best, Rockport Publisher.</i> 					
Web Resources					

Course Outcomes		Knowledge Level
CO1	Define the contents of a designer's portfolio	K1
CO2	Determine the appropriate contents of a portfolio	K5
CO3	Express portfolio through multimediuem means	K2
CO4	Create a model portfolio	K6
CO5	Practice portfolio presentations	K3

Mapping Course Outcome VS Programme Outcomes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	2	-	-	1	1	1	2	2	3	3
CO2	2	-	-	1	1	1	2	2	3	3
CO3	2	-	-	1	1	1	2	2	3	3
CO4	2	-	-	1	1	1	2	2	3	3
CO5	2	-	-	1	1	1	2	2	3	3
W. AV	2	-	-	1	1	1	2	2	3	3

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	1	3	2	1
CO2	1	1	3	2	1
CO3	1	1	3	2	1
CO4	1	1	3	2	1
CO5	1	1	3	2	1
W. AV	1	1	3	2	1

DSE	81866	Project-III Environmental Graphics	P	Credits- 4	Hours -6
Objectives	<ul style="list-style-type: none"> • Familiarize students with the factors and types of Environmental Graphics • Educate students about the cognitive considerations Environmental Graphic Design (EGD). • Impart the importance of user centred design practice in EGD. • Develop an understanding of the design process pertaining to EGD • Apply the learnings in this course to practice EGD by executing a project. 				
Unit I	Environmental graphics. It's form and function. Architectural, landscape, Industrial and Interior design considerations. Types of Environmental graphics-Wayfinding systems- Digital Signage, Wall and Floor Graphics, Backlit displays, Window Films, Exhibition-Public Installations–Identity and Place making. Interactive displays.				
Unit II	Cognitive considerations in Environmental graphic design. Cognitive, Emotional and Physical considerations. Visual ergonomics- colour of signage. 2D and 3D signage installations and considerations. Warning and Emergency signs. Use of light in signage. User Experience of Signs. Fixtures, standees, display panels, window display - Way finding system and signage for the event. Etc. Permanent and Temporary Installations				
Unit III	User Centred Design. Environmental graphics for Children, Adult and Elderly. Considerations for specially challenged people. Hybrid Signages.				
Unit IV	Research for various types of events and designs - choosing an Event. Research for various types of space and designs - choosing a Space. Primary research, understanding the target audience. Design language for the event/space -Material exploration, proposal writing and budgeting.				
Unit V	Design solution and mock-up.				
Reference and Textbooks					
<ul style="list-style-type: none"> • Polly McKenna-Cress & Janet Kamien, <i>Creating Exhibitions: Collaboration in the Planning, Development, and Design of Innovative Experiences</i>, Wiley Publication. • Pam Locker, <i>Basics Interior Design 02: Exhibition Design</i>, Bloomsbury Publishing India Private Limited. • Wang Shaoqiang, <i>Exhibition Art: Graphics and Space Design</i>, Promopress. • Judith Bell & Kate Ternus, <i>Silent Selling: Best Practices and Effective Strategies in Visual Merchandising</i>, Fairchild Publications. • David Dernie DER, <i>Exhibition Design</i>, Laurence King Publishing, London, 2006. 					
Web Resources					

Course Outcomes		Knowledge Level
CO1	Describe the types of EGD and their application	K1
CO2	Select the best fit EGD based on the cognitive factors of the target user	K5
CO3	Create EGD taking into the mental, physical and emotional needs of the target user	K6
CO4	Show capabilities to conduct a comprehensive EGD	K2
CO5	Prove expertise in EGD by executing a project	K5

Mapping Course Outcome VS Programme Outcomes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	3	3	3	3	3	2	2	2
CO2	3	3	3	3	3	3	3	2	2	2
CO3	3	3	3	3	3	3	3	2	2	2
CO4	3	3	3	3	3	3	3	2	2	2
CO5	3	3	3	3	3	3	3	3	3	3
W. AV	3	3	3	3	3	3	3	2.2	2.2	2.2

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	2	2	2	2
CO2	2	2	2	2	2
CO3	2	2	2	2	2
CO4	2	2	2	2	2
CO5	2	2	2	2	2
W. AV	2	2	2	2	2

OE	81867A	Puppetry	P	Credits- 2	Hours -2
Objectives	<ul style="list-style-type: none"> Educate about the history of clay Introduce the preparation methods of clay Introduce the various techniques and methods involved in clay modelling Educate about clay modelling through personal explorations Educate clay modelling by doing a major team project 				
Unit I	History of puppets. Puppets and human civilizations. International, National and regional puppetry. Social, cultural and political impacts and interactions with puppetry				
Unit II	Types of puppets :Shadow Puppets (Thol pavaikoothu) ,Glove Puppets, Rod and stick Puppets, Finger Puppets, Ventriloquist Puppets, Marionettes,				
Unit III	Design of puppets. Techniques, Set design. Story telling through puppets. Voice and light training.				
Unit IV	Development of puppet characters using a traditional technique.				
Unit V	Project : Team Project. Develop puppet play				
Reference and Textbooks					
<ul style="list-style-type: none"> Howard Risatti, <i>A Theory of Craft: Function and Aesthetic Expression</i>, The university of North Carolina Press, 2013 Laura Price, <i>Geographies of Making, Craft and Creativity</i>, Routledge, 2018 Liam Jarvis, Sue Buckmaster, <i>Theatre-Rites: Animating Puppets, Objects and Sites</i>, July 2021 Arthur B. Allen, <i>Puppetry for Beginners (Puppets & Puppetry Series)</i>, Read Books, April 2006 					
Web Resources					

Course Outcomes		Knowledge Level
CO1	Express the importance of understanding traditional puppetry practices	K2
CO2	Explain the various types of puppets	K5
CO3	Determine the appropriate puppet and set design	K5
CO4	Identify the methods and practices to develop a puppet character	K3
CO5	Create a puppet skit	K6

Mapping Course Outcome VS Programme Outcomes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	1	-	1	2	2	3	2	3
CO2	3	3	-	-	2	2	2	3	3	3
CO3	3	2	-	-	1	3	2	3	2	3
CO4	3	2	2	-	2	2	2	3	2	3
CO5	3	3	2	2	2	2	3	3	3	3
W. AV	3	2.6	1	0.4	1.6	2.2	2.2	3	2.4	3

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	2	3	3	3
CO2	2	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	2	3	2	3
W. AV	2.6	2.6	3	2.8	3

OE	81867B	Craft Study - II	P	Credits- 2	Hours -2
Objectives	<ul style="list-style-type: none"> Educate about the history of the craft under study Introduce the materials and their properties appropriate for the craft being studied Educate by learning the foundation techniques of the craft. Familiarize with methods to tailor the craft to user needs. Educate comprehensively about the craft under study through a project <p>This course “ Craft Study II” shall be an avenue to explore indigenous and regional craft practices</p>				
Unit I	Historic and cultural aspects of the craft				
Unit II	Materials and process involved in material preparation				
Unit III	Design : Motifs, techniques, boundaries (what can be done and what cannot be)				
Unit IV	User preferences from the craft’s person’s perspective.				
Unit V	Project : Develop an artefact and present it.				
Reference and Textbooks					
<ul style="list-style-type: none"> Howard Risatti, <i>A Theory of Craft: Function and Aesthetic Expression</i>, The university of North Carolina Press, 2013 Laura Price, <i>Geographies of Making, Craft and Creativity</i>, Routledge, 2018 					
Web Resources					

Course Outcomes		Knowledge Level
CO1	Express the importance of understanding traditional craft practices	K2
CO2	Explain the choice of materials for the craft under study	K5
CO3	Determine design elements in the craft under study	K5
CO4	Identify the methods and practices to tailor a craft practice matching a user’s need.	K3
CO5	Create a design using the craft under study	K6

Mapping Course Outcome VS Programme Outcomes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	1	-	1	2	2	3	2	3
CO2	3	3	-	-	2	2	2	3	3	3
CO3	3	2	-	-	1	3	2	3	2	3
CO4	3	2	2	-	2	2	2	3	2	3
CO5	3	3	2	2	2	2	3	3	3	3
W. AV	3	2.6	1	0.4	1.6	2.2	2.2	3	2.4	3

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	2	3	3	3
CO2	2	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	2	3	2	3
W. AV	2.6	2.6	3	2.8	3

OE	81867C	Story Telling	P	Credits- 2	Hours -2
Objectives	<ul style="list-style-type: none"> Educate about the history of Storytelling. Introduce the elements of a story. Educate about story telling design for targeted audience. Introduce the various techniques and methods involved in storytelling and product design. Educate story telling by doing a major team project 				
Unit I	Storytelling as an art. History of story telling traditions. Fiction and nonfiction genres. Regional story telling traditions.				
Unit II	Narratives, character building and emphasis, plot design.				
Unit III	User based story telling. Story telling for children, adults, and elderly. Voice training, pausing, and timing in storytelling. Set design. Multi modal (visual, aural and other sensual) narratives				
Unit IV	Use of storytelling techniques in product design. Design process, product abstraction and presentation techniques				
Unit V	Project II: Team Project. Develop story and present it				
Reference and Textbooks					
<ul style="list-style-type: none"> Howard Risatti, <i>A Theory of Craft: Function and Aesthetic Expression</i>, The university of North Carolina Press, 2013 Laura Price, <i>Geographies of Making, Craft and Creativity</i>, Routledge, 2018 Will Storr, <i>The Science of Storytelling: Why Stories Make Us Human, and How to Tell Them Better</i>, William Collins, March 2020 Ellen Lupton, <i>Design is Storytelling</i>, Cooper-Hewitt Museum, November 2017 					
Web Resources					

Course Outcomes		Knowledge Level
CO1	Express the importance of history of story telling	K2
CO2	Explain the elements of story telling	K5
CO3	Determine the appropriate story telling technique for the identified audience	K5
CO4	Identify the methods and practices of story telling and use them in Design	K3
CO5	Create a story.	K6

Mapping Course Outcome VS Programme Outcomes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	1	-	1	2	2	3	2	3
CO2	3	3	-	-	2	2	2	3	3	3
CO3	3	2	-	-	1	3	2	3	2	3
CO4	3	2	2	-	2	2	2	3	2	3
CO5	3	3	2	2	2	2	3	3	3	3
W. AV	3	2.6	1	0.4	1.6	2.2	2.2	3	2.4	3

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	2	3	3	3
CO2	2	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	2	3	2	3
W. AV	2.6	2.6	3	2.8	3

SEMESTER VII

CC	81871	Internship	I	Credits-2	Hours -2
Objectives	To get exposed to industrial practices in Design				
	<ul style="list-style-type: none"> • This internship is aimed at a short exposure to the practices in a design studio. • The students are expected to get exposed to design practices in a studio. • The improve their soft skills, like time management, project planning and execution. Use of new tools. • Improve presentation skills. 				
Reference and Textbooks	<ul style="list-style-type: none"> • <i>Brian Sullivan, The Design Studio Method: Creative Problem Solving, Routledge, 2015</i> 				
Web Resources					

Course Outcomes		Knowledge Level
CO1	Define the role of a designer in a studio	K2
CO2	Determine the appropriate plan and resources for a design project	K5
CO3	Express improvements or innovations to design process based on pragmatic needs of the job in hand	K5
CO4	Create a project report	K3
CO5	Practice Presentation techniques	K6

Mapping Course Outcome VS Programme Outcomes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	3	3	3	3	3	3	3	3
CO2	3	3	3	3	3	3	3	3	3	3
CO3	3	3	3	3	3	3	3	3	3	3
CO4	3	3	3	3	3	3	3	3	3	3
CO5	3	3	3	3	3	3	3	3	3	3
W. AV	3	3	3	3	3	3	3	3	3	3

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
W. AV	3	3	3	3	3

CC	81872	New Media Design	P	Credits- 4	Hours -6
Objectives	1.To educate students about the evolution of new media. 2.To familiarise with contemporary new media practices through exercises. 3.To introduce to innovation trends in new media. 4.To learn to integrate new media constructs through a project. 5.To emphasise the essence of new media by building application specific prototype.				
Unit I	Introduction of the New Media Arts and its History- Case studies of New Media Artists- Research and Documentation				
Unit II	Exploration of the topic through basic Exercises and Discussions				
Unit III	Introduction to AR, VR, MR and XR				
Unit IV	Development of new media application prototype				
Unit V	New Media Arts Display/Exhibition/ Presentation/Screening/Feedback				
Reference and Textbooks					
<ul style="list-style-type: none"> • Richard L. Lewis & James Luciana, (2004), Digital Media: An Introduction, Prentice Hall. • Christiane Paul, New Media (2009), New Media in the White Cube and Beyond - Curatorial Models for Digital Art, University of California Press • Mark Tribe, (2006), New Media Art (Taschen Basic Art Series), Taschen GmbH • Lisa Nakamura, (2007), Digitizing Race: Visual Cultures of the Internet, Univ of Minnesota Press. 					
Web Resources					

Course Outcomes		Knowledge Level
CO1	Relate contemporary new media applications with their roots.	K1
CO2	Develop designs incorporating new media elements	K3
CO3	Identify novel improvements in contemporary new media applications	K3
CO4	Create an application using new media	K6
CO5	Construct a product using appropriate new media element	K3

Mapping Course Outcome VS Programme Outcomes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	2	2	1	1	2	2	3	2	2	3
CO2	2	2	-	-	1	2	3	2	3	3
CO3	2	1	-	-	1	2	3	2	3	3
CO4	2	2	-	-	1	2	3	2	3	3
CO5	2	2	1	-	1	2	3	2	3	3
W. AV	2	1.8	0.4	0.2	1.2	2	3	2	2.8	3

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	2	2	2	2
CO2	3	2	-	1	3
CO3	3	2	-	1	3
CO4	3	2	-	1	3
CO5	3	2	1	2	3
W. AV	3	2	0.6	1.4	2.8

CC	81873	Film Design	P	Credits- 4	Hours -6
Objectives	<ul style="list-style-type: none"> • Apprise students about the evolution and history of world cinema. • Educate students in the constructs of film and film making • Familiarize students to the process of making films (production) • Introduce the modes and elements of a documentary film. • Enable an understanding of film making by making a short film. 				
Unit I	History of world cinema. History of Indian film making. The socio-political contextual influences. Appreciating and understanding the unique stylistic and aesthetic tendencies of different movies and documentaries. History of documentary cinema worldwide and the history of Indian documentary cinema.				
Unit II	Film constructs - Process of filmmaking - roles of artists, technicians. Writing - Observation of Characters and Situations. Continuity, shot division, spatial and temporal narrative. Mis-en-scene.				
Unit III	Conceptualization, plot, and story development. Story boarding and script writing. Character development, light and sound recording and design. Production planning.				
Unit IV	Elements of a documentary film. Modes of documentaries: Linear, Discursive, episodic, poetic and hybrid mode. Analysis of documentaries from different cultures. Project I : Creation of a 10 minute documentary of a social phenomenon/problem.				
Unit V	Project II : Creation of a shortfilm - maximum of 10 minutes.				
Reference and Textbooks					
<ul style="list-style-type: none"> • <i>Documentary Film Classics, William Rothman, Cambridge University Press, 2004</i> • <i>Film Theory And Philosophy, Richard Allen; Murray Smith Eds., Oxford University Press, 2003</i> • <i>Technique of film Editing, Karel Reisz; Gavin Millar, Focal Press: an Imprint of Elsevier, 2nd, 2008</i> • <i>The Documentary Film Reader, Jonathan Kahana, Oxford University Press</i> 					
Web Resources					

Course Outcomes		Knowledge Level
CO1	Relate the stages of film evolution and the contribution of cultural context in films	K2
CO2	Illustrate knowledge about the phases of film making/production	K2
CO3	Generate the constructs of a film like story, character and elements of light and sound	K4
CO4	Illustrate expertise in developing a documentary film showcasing a phenomenon	K2
CO5	Design and develop a short film	K6

Mapping Course Outcome VS Programme Outcomes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	-	2	2	3	3	1	1	1
CO2	3	3	3	2	2	3	3	1	1	1
CO3	3	3	3	2	2	3	3	1	1	1
CO4	3	3	-	2	2	3	3	1	1	1
CO5	3	3	3	3	3	3	3	1	1	1
W. AV	3	3	1.8	2.2	2.2	3	3	1	1	1

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
W. AV	3	3	3	3	3

CC	81874	Project IV- Interaction Design	P	Credits- 4	Hours -6
Objectives	1.To familiarise students with the foundations of interaction design 2.To educate students about different facets of interaction design 3.To emphasize about user centricity in interaction design 4.To recognise the role of cognitive design in interaction 5. To align practice with learning through an interaction design project				
Unit I	Basic concepts in Interaction Design - Interaction Models – issues in man-machine interface - ergonomic considerations - dialog				
Unit II	Paradigms for interaction – time sharing - Video display units - Programming toolkits - Sensor based context aware interaction - Multi-modal displays etc.				
Unit III	Interaction Design Process: User focus – Scenarios - Navigation Design - Screen Design and Layout - Iteration and Prototyping.				
Unit IV	Rules and Heuristics Principles –Cognitive design – sensation -perception – multisensory design				
Unit V	Design project: design of an interactive product for a selected requirement - Deliverables will include research and insights - feature map - site map - page layouts – storyboard - visual design and style guide.				
Reference and Textbooks					
<ul style="list-style-type: none"> • <i>Theo Mandel (1997), The Elements of User Interface Design, John Wiley & Sons</i> • <i>Alan Cooper, Robert Reimann & David Cronin, (2016), About face: The Essentials of Interface Design, Wiley, p 720.</i> • <i>Louis Rosenfield (2015), Information Architecture for the Web and Beyond, Schroff</i> 					
Web Resources					

Course Outcomes		Knowledge Level
CO1	Show familiarity with interaction design concepts	K2
CO2	Relate interaction design scenarios with theory	K2
CO3	Demonstrate the importance of user studies in interaction design	K3
CO4	Prioritize user cognitive factors in deigning interactions	K5
CO5	Construct am interaction design application to exercise theory	K6

Mapping Course Outcome VS Programme Outcomes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	2	-	2	2	3	3	2	2	3
CO2	3	2	1	1	1	3	3	2	2	2
CO3	3	3	-	2	2	3	3	2	3	2
CO4	3	2	-	3	1	3	3	2	3	2
CO5	3	3	-	2	1	3	3	2	3	3
W. AV	3	2.4	0.2	2	1.4	3	3	2	2.6	2.4

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	2	2	2	2
CO2	3	3	2	2	3
CO3	2	3	3	3	3
CO4	2	3	3	3	3
CO5	3	3	3	3	3
W. AV	2.6	2.8	2.6	2.6	2.8

CC	81875	Visual Merchandising	P	Credits- 4	Hours -6
Objectives	<ol style="list-style-type: none"> 1. To introduce the evolution of visual merchandising 2. To familiarise with branding and its elements 3. To impart the nuances of visual identity 4. To learn the facets of visual merchandising by designing collaterals 5. To gain a complete understanding of branding through a collective project 				
Unit I	Introduction to branding - Definition, History, and developments - Steps involve - Various branding strategies.				
Unit II	Branding for existing or hypothetical company – Research and identifying attributes – Target audience – Market study.				
Unit III	Create a visual identity – logo – Graphic design and Typographical exploration.				
Unit IV	Applying to collaterals – VC – Letterhead – Envelope – Tabletop – T-shirt – Cap -3D explorations.				
Unit V	Developing a Brand manual and Display/mock-ups -Display Fixtures - Signage and Graphics program. Window Displays that are dramatic, powerful, and engaging, efficient lighting program, Colour and Materials selections.				
Reference and Textbooks					
<ul style="list-style-type: none"> • <i>Melissa Davis, more than a Name: An Introduction to Branding, Academic Press.</i> • <i>Jeff Fisher (2007), Identity Crisis: 50 redesigns that transformed stale identities into successful brands, How Books.</i> • <i>Kevin Budelman, Yang Kim & Curt Wozniak, Brand Identity Essentials:100 Principles foe Designing Logos and Building Brands, Rockport Publishers.</i> • <i>Huckerby, P(2015). “Easy Visual Merchandising: An Outstanding Visual Guide For 21st Century Retail”.</i> • <i>Schielke, T; Leudesdorff, M (2015). "Impact of lighting design on brand image for fashion retail stores". Lighting Research and Technology. 46 (6): 672–692. doi:10.1177/1477153514541831.</i> 					
Web Resources					

Course Outcomes		Knowledge Level
CO1	Generate appropriate visual merchandising strategies as applicable	K4
CO2	Critically assess a branding practice	K5
CO3	Interpret the core characteristics of a product by creating an effective visual identity	K5
CO4	Compile relevant branding collaterals for a product under study	K6
CO5	Develop a comprehensive branding strategy for a product/service	K6

Mapping Course Outcome VS Programme Outcomes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	3	2	2	3	3	3	3	3
CO2	3	3	3	2	2	3	3	3	3	3
CO3	3	3	3	2	2	3	3	3	3	3
CO4	3	3	3	2	2	3	3	3	3	3
CO5	3	3	3	2	2	3	3	3	3	3
W. AV	3	3	3	2	2	3	3	3	3	3

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	2	2
CO2	3	3	3	2	2
CO3	3	3	3	2	2
CO4	3	3	3	2	2
CO5	3	3	3	2	2
W. AV	3	3	3	2	2

Allied	81876	Design Management and Professional Practice	P	Credits- 2	Hours -2
Objectives	1.To educate students about the nuances of Management in design. 2.To emphasize the importance of interpersonal communication and synergy in teams. 3.To develop an understanding of basic management tools and techniques. 4.To create an awareness about the importance of intellectual property rights governing design creations 5. To apply the learning through project/case studies.				
Unit I	Introduction to design management, skills, knowledge and learning style evaluation, personal goal setting and professional development planning – leadership skill				
Unit II	Collaboration of businesses and technical teams, Motivated individuals - Face-to-face conversation - Functional products - Technical excellence – Simplicity - Self-organized teams - Regulation, reflection, and adjustment.				
Unit III	Strategy - strategy to sell idea/convince client. Predictive analytics and operative techniques – SWOT analysis - Project management Tools. Proposal - Quotations, Estimates, and Budgeting for a studio setup or a project.				
Unit IV	Introduction to intellectual property rights: Definition - Administration offices and services - Copyright societies - IPR in India and Abroad - Laws related with copyrights and intellectual property rights: The Copyright Act-1957, Designs Act-2000 - The way from WTO to WIPO –TRIPS.Process of Patenting and Development - Research and innovation – Patents – Designs - Trade Mark and Copyright - Geographical Indications. Ethics in Product design:Informed consent. - Voluntary participation. - Do no harm - Confidentiality – Anonymity – Sensitization towards Gender – Religion – Race.				
Unit V	Present a Project / case study.				
Reference and Textbooks					
<ul style="list-style-type: none"> • <i>David Hands (2009), Vision and Values in Design Management, Academic Press.</i> • <i>Kathryn Best (2006), Design Management: Managing Design Strategy, Process and Implementation, Academic Press.</i> • <i>Peter Gorb (1990), Design Management, Architecture design and technology press.</i> 					
Web Resources					

Course Outcomes		Knowledge Level
CO1	Understand the importance of management in design	K2
CO2	Develop interpersonal communication skills	K3
CO3	Apply the appropriate management tools and techniques	K3
CO4	Illustrate knowledge about IPR	K2
CO5	Develop a case study on good management practices	K6

Mapping Course Outcome VS Programme Outcomes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	1	1	1	1	1	1	1	3	3	3
CO2	1	1	1	1	1	1	1	3	3	3
CO3	1	1	1	1	1	1	1	3	3	3
CO4	1	1	1	1	1	1	1	3	3	3
CO5	1	1	1	1	1	1	1	3	3	3
W. AV	1	1	1	1	1	1	1	3	3	3

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	1	1	1	1
CO2	1	1	1	1	1
CO3	1	1	1	1	1
CO4	1	1	1	1	1
CO5	1	1	1	1	1
W. AV	1	1	1	1	1

DSE	81877	Design For future	P	Credits-2	Hours -2
Objectives	<ul style="list-style-type: none"> Develop an understanding of the contemporary opinions and commentaries about the designed world. Impart an understanding as well as the importance of design for the future. Analyse the ramifications rationally in creating a designed future for the planet. Identify design interventions and develop bonafide convictions and ideas about future Comprehend the planet 25 years hence, through design. 				
Unit I	Study of theories and commentaries about contemporary world through design. Evolution of objects, Consumerism, Media evolution, evolution of space, Evolution of systems in daily life.				
Unit II	Study of futuristic design thoughts. Speculative Design, “what if” of Design. Critic a Design. Dyamaxion and Ephemeralization, Fiction and Future. Design Fiction.				
Unit III	Taxonomy of future. Intellectual and Rationale grounding of future. Design for people. Design for planet.				
Unit IV	Generating one’s own ideas/views of “what is design? “. Predicted future based on current trends. Desired future. Design interventions to a forecasted future.				
Unit V	Project. Study a product service or a system and hypothesise its future through design 25 years hence. Present it in the form of a presentation				
Reference and Textbooks					
<ul style="list-style-type: none"> <i>R Buckminster Fuller, Utopia or Oblivion: The Prospects for Humanity, Lars Muller Publishers, 2008.</i> Jean Baudrillard, System of Objects: Reflections from Damaged Life, Verso, 2020 <i>Henri Lefebvre, The Production of Space, Wiley-Blackwell, 1991</i> <i>Henri Lefebvre, Critique of Everydaylife, Verso, 2014</i> <i>Anthony Dunne & Fiona Raby, Speculate Everything: Design, Fiction, and Social Dreaming, The MIT press 2013</i> <i>Matt Malpass, Critical Design in Context: History, Theory, and Practice, Bloomsbury Visual Arts 2019</i> 					
Web Resources					

Course Outcomes		Knowledge Level
CO1	Express knowledge about the attempts and efforts by designers to forecast a future through design.	K2
CO2	Relate the contemporary commentaries about a designed future based on identified parameters.	K2
CO3	Predict the future of the world through design	K3
CO4	Create design interventions that are aimed at a healthier planet in the future.	K6
CO5	Elaborate the influence of design in creating a sustainable and healthy world in 25 years	K6

Mapping Course Outcome VS Programme Outcomes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	1	1	1	3	1	1	1	1	1
CO2	3	1	1	1	3	1	1	1	1	1
CO3	3	1	1	1	3	1	1	1	1	1
CO4	3	1	1	1	3	1	1	1	1	1
CO5	3	1	1	1	3	1	1	1	1	1
W. AV	3	1	1	1	3	1	1	1	1	1

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
W. AV	3	3	3	3	3

SEMESTER VIII

CC	81881	Degree Project	PR	Credits-10	Hours -24
Objectives	To learn to execute a complete design project in a professional design studio/industry				
	Project Phase 1 (Research and Design Brief). Project Phase 2 (Ideation and Conceptual Design/Preproduction). Project Phase 3 (Final Design solution/Prototype/Production). Project Phase 4 (Documentation). Project Phase 5 (Project Report Submission).				
Reference and Textbooks					
<ul style="list-style-type: none"> • <i>Bryan Lawson, How Designers Think: The Design Process Demystified, Om Books.</i> • <i>Tim Parsons, Thinking: Objects Contemporary Approaches to Product Design, Academic Press.</i> • <i>Adedeji B. Badiru, Christina F. Rusnock & Vhance V. Valencia, Project Management for Research: A Guide for Graduate Students, CRC Press.</i> 					
Web Resources					

Course Outcomes		Knowledge Level
CO1	Express professional capabilities to embark on a design practice or research	K6

Mapping Course Outcome VS Programme Outcomes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	3	3	3	3	3	3	3	3
W. AV	3	3	3	3	3	3	3	3	3	3

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	3	3
W. AV	3	3	3	3	3

DSE	81882	Design Research Report Writing	PR	Credits- 4	Hours -6
Objectives	<ul style="list-style-type: none"> • Introduce students to Design Research • Develop capabilities to read and synthesise the gist of a research paper • Enhance the capabilities to write a research paper • Learn the methods to conduct design research and gather them in a research paper. • Educate students about Research presentation techniques. 				
Unit I	What is Design Research? Research in Design. Research by Design. Contemporary commentaries in Design Research. Wicked problems. Sociology, ethnography and scientific research elements in Design. Their appropriateness and differences.				
Unit II	Design Research paper reading. Synthesising of information from text. Summarising a chapter, a book and a research paper. Case study.				
Unit III	Case study. Design Research paper writing. The constructs of a design research paper. Write summaries of research papers and texts.				
Unit IV	Project :Study a product and the research that has gone behind it. Write a research paper on it.				
Unit V	Presentation of research effort.				
Reference and Textbooks					
<ul style="list-style-type: none"> • Wendy Laura Belcher, <i>Writing Your Journal Article in Twelve Weeks, Chicago Guides to Writing, Editing, and Publishing, 2019</i> • Kate L. Turabian (Author), Wayne C. Booth, <i>A Manual for Writers of Research Papers, Theses, and Dissertations, University of Chicago Press, 2018</i> 					
Web Resources					

Course Outcomes		Knowledge Level
CO1	List the different avenues of design research efforts	K1
CO2	Illustrate capabilities to read and summarize a research content.	K2
CO3	Generate a research paper for a given case study	K4
CO4	Explain a design research conduct through a research paper	K5
CO5	Formulate a presentation for a research paper/ study	K6

Mapping Course Outcome VS Programme Outcomes

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	3	2	3	3	3	3	3	3
CO2	2	2	2	2	2	2	2	2	2	2
CO3	3	3	3	3	3	3	3	3	2	2
CO4	3	3	3	3	3	3	3	3	2	2
CO5	1	1	1	1	1	1	1	3	3	3
W. AV	2.4	2.4	2.4	2.2	2.4	2.4	2.4	2.8	2.4	2.4

Mapping Course Outcome VS Programme Specific Outcomes

CO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	3	3
CO2	3	3	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	3	3	3	3	3
W. AV	3	3	3	3	3