

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



M. Des. Communication Design

Regulations and Syllabus

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

CHOICE BASED CREDIT SYSTEM

COLLABORATIVE PROGRAMMES
Master of Design – Communication Design
REGULATION AND SYLLABUS

Name of the Programme	: M. Des. (Master of Design)
Pattern	: Semester System
Mode	: Collaborative Programmes
Medium	: English
Duration	: Two Years
Eligibility	: Candidate for admission to M. Des. shall be required to have successfully passed an undergraduate program of minimum 3-year duration in any specialization, after 10+2 system, from any university or institute recognized by law in India.

OR

Full-time Diploma of minimum 4-year duration in Design / Fine Arts / Applied Arts / Architecture, after 10+2 system, from any university or institute recognized by law in India, subject to availability of equivalency certificate from the Alagappa University.

Eligibility of candidates applying from abroad shall be evaluated for equivalence on a case-to-case basis.

Standard of Passing and Award of Division:

- a) Students shall have a minimum of 50% of total marks of the University examinations in each subject. The overall passing minimum is 50% both in aggregate of Continuous Internal Assessment and External Assessment in each subject.
- b) The minimum marks for passing in each external assessment of Theory/Practical course shall be 50% of the marks prescribed for the course.
- c) The minimum marks for passing in each internal assessment of Theory/Practical course shall be 50% of the marks prescribed for the course.
- d) The total marks for theory courses shall have a contribution of 25% from Continuous Internal Assessment and 75% from External Assessment.
- e) The total marks for practical courses shall have a contribution of 75% from Continuous Internal Assessment and 25% from External Assessment.
- f) A candidate who secures 50% or more marks but less than 60% of the aggregate marks shall be awarded **SECOND CLASS**.
- g) A candidate who secures 60% or more of the aggregate marks shall be awarded **FIRST CLASS**.
- h) A candidate who secures 80% and above marks will be awarded **FIRST CLASS WITH DISTINCTION** (Provided the student pass all the courses in the first attempt)
- i) The Practical / Project shall be assessed by a minimum of two examiners comprising of an Internal Examiner and External Examiner.

CONTINUOUS INTERNAL ASSESSMENT: The respective course faculty will continuously assess the performance of students in each course. The continuous Internal Assessment marks shall be awarded by the concerned course faculty based on the performance of the student in case studies, presentations, quizzes, practicals, tests and other assignments.

ATTENDANCE:

ATTENDANCE GUIDELINES			
0 - 59 %	60 - 69 %	70 - 74 %	75 - 100 %
NOT ELIGIBLE TO APPEAR FOR EXAMINATION	CONDONATION FEE + MEDICAL CERTIFICATES	CONDONATION FEE	MEETING THE ATTENDANCE REQUIREMENTS
SEMESTER DROP	IF NOT DEPOSITED / SUBMITTED THEN SUBJECT ARREAR		

UNIVERSITY EXAMINATIONS:

The University theory examinations will be held at the end of each Semester that has a theory paper for a duration of three hours for each subject.

EVALUATION OF ANSWER PAPERS:

Answer papers of the University Examinations shall be subjected to evaluation by a Board of Examiners constituted by Alagappa University.

INTERNSHIP:

The course being professional, the students are required to undergo industrial exposure at the end of the 2nd semester of the program for a period of minimum one and half month or 45 days.

Assessment for internship shall be done by a team of one internal examiner and one external examiner.

DEGREE PROJECT:

The degree project can be executed either in an industrial studio or as an in-house project in the institute. The internal assessment shall be done in the form of two internal reviews and one pre-jury. Attending all the three assessments is mandatory.

The external assessment for degree project shall be done by a minimum of one internal examiner and one external examiner.

The student shall be allowed to appear for the final degree project if and only if he/she has cleared all the previous courses.

AWARD OF DEGREE:

Students who successfully complete the Program by meeting all the academic requirements within the stipulated period of three years from the year of admission shall be awarded the degree of M. Des (Master of Design).

PROGRAMME CONTENT AND SCHEME OF EXAMINATIONS

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

M. Des. Communication Design

Semester	Part	Course Code	Sub. Code	Title of the Paper	Theory Practical	Credits	Hours/W	Marks		Total
								Int.	Ext.	
I	III	CC	82011	Art Design and Culture	P	4	5	75	25	100
		CC	82012	Ergonomics	P	4	5	75	25	100
		CC	82013	Foundation Drawing	P	4	6	75	25	100
		CC	82014	Elements of Design	P	4	6	75	25	100
		CC	82015	Design Process	P	4	4	75	25	100
		DSE	82016	Material Studio and Processes	P	4	6	75	25	100
					Library					
				Total		24	30	450	150	600
II	III	CC	82021	Aesthetics in Design	P	3	3	75	25	100
		CC	82022	Research Methodology	P	3	3	75	25	100
		CC	82023	Introduction to photography	P	4	4	75	25	100
		CC	82024	Elements of Graphic Design	P	4	6	75	25	100
		CC	82025	Typographic design	P	4	6	75	25	100
		CC	82026	Project I : Environmental Graphics	P	4	6	75	25	100
	DSE	82027	Interaction Design	P	4	4	75	25	100	
				Library						
				Total		26	30	525	175	700
Industrial internship of 45 days (between II and III semester break)										
III	III	CC	82031	Internship	I	2	2	75	25	100
		CC	82032	Sound Recording and Design	P	4	4	75	25	100
		CC	82033	Motion Graphics	P	2	4	75	25	100
		CC	82034	Design Management and Professional Practice	P	2	3	75	25	100
		CC	82035	Visual Merchandising	P	4	4	75	25	100
		CC	82036	Project II – Publication Design and Printing	P	4	4	75	25	100
		CC	82037	Project III – New Media Design	P	4	4	75	25	100
	DSE	82038	Design For Future	P	4	5	75	25	100	
				Total		26	30	600	200	800
IV	III	CC	82041	Degree Project	PR	10	24	75	25	100
		CC	82042	Design Research Report writing	PR	4	6	75	25	100
					Total		14	30	150	50
Grand Total						90	124	1725	550	2300

SEMESTER I

Course Code	82011	Art Design and Culture	P	Credits 4 Hours 5
Objectives		<ol style="list-style-type: none"> 1. To familiarize the students with Art, Design History and Movements. 2. Learn to understand elements of local culture and its influence in daily life. 3. Learn to conduct ethnographic research. 4. To familiarize with human role in development of culture through research. 5. To educate in research data collection and synthesis. 		
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		Dominant cultural issues: Religion, caste, gender. Language. Alternative approaches – Cultural collaborations - Sensitive issues. Vernacular design Elements – Their contribution to Indian Design. Study of material and cultural edifices, Iconography		
Unit III		Stages of ethnographic research - Selection of local area to study – Review of literature – Sample selection - observations and data collections		
Unit IV		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 Text books				
<ul style="list-style-type: none"> • <i>Keith Negus & Michael Pickering (2004), Creativity, Communication and Cultural Value, Sage Publications</i> • <i>Nigel Rapport & Joanna Overing (2014), Key Concepts in Social and Cultural Anthropology, Routledge, London</i> • <i>Jasleen Dhamija (2005), Handicrafts of India Our Living Cultural Tradition, National Book Trust</i> • <i>Tim Ingold, (2007), Lines: A brief History, Routledge Publication</i> • <i>Marcus Banks & David Zeitlyn, (2015), Visual Methods in Social research, 2nd Edition, SAGE Publications</i> • <i>Sara Pink, (2015), Doing Sensory Ethnography, 2nd Edition, SAGE Publications</i> 				
Course Outcomes			Knowledge Level	
CO1	Understand art, design history and movements		K2	
CO2	Discuss elements of culture in a society		K4	
CO3	Acquire knowledge to conduct ethnographic research		K2	
CO4	Critically evaluate the cultural impact in design		K5	
CO5	Acquire knowledge to analyse and synthesize field research data		K2	

Mapping Course Outcome VS Programme Outcomes

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

Mapping Course Outcome VS Programme Specific Outcomes

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

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

Course Code	82012	Ergonomics	P	Credits -4 Hours 5
Objectives	To educate the basics of ergonomic considerations in product design To familiarize with human physiology and its various postural configuration To educate the basics of cognitive ergonomics To develop a sensitivity to the importance of ergonomics in daily life by analyzing a product. To develop designs by employing ergonomic theory			
Unit I	Introduction to ergonomics – Human physiology - Areas of application – workstation – daily life Anthropometric data measuring sitting and standing postures - posture analysis – planes of references – adduction – abduction – extension – flexion – types of body – endomorph – ectomorph – mesomorph – child – adult- elderly ergonomic considerations.			
Unit II	Elements of cognitive ergonomics – sensation – perception and cognition – memory – emotion – attention –Human Processor model – Motor plan – perceptual bias – cognitive load - affordance – proprioception.			
Unit III	Norman’s stages of action – response mechanism –episodic memory – experience activity mapping- stimulus response – action – reward – repetitive strain injuries – fatigue.			
Unit IV	Human Machine Interfaces – Product designs- domestic and industrial spaces. percentiles-Ergonomic/Human factors tools in design			
Unit V	Identification of a point of improvement in a product. Ergonomic factors to be improved. Development and testing of the envisaged product - Presentation of the product developed.			
Reference and Text books				
<ul style="list-style-type: none"> • <i>D. Alexander, Applied Ergonomics, CRC press,2020</i> • <i>Nikolaos Gkikas, Automotive Ergonomics: Driver-Vehicle Interaction, CRC press, 2012</i> • Neville Stanton et al., Handbook of Human Factors and Ergonomics Methods, CRC Press, 2005 • J long A Whitefield, Cognitive Ergonomics and Human Computer Interaction , Cambridge University Press, 2011 				
Web resources				
https://www.humanfactors.com/ https://ehs.oregonstate.edu/sites/ehs.oregonstate.edu/files/pdf/ergo/ergonomicsanddesignreferen ceguidewhitepaper.pdf				
Course Outcomes				Knowledge Level
CO1	Utilize the basics of ergonomic considerations in design creations			K3
CO2	Utilize the basics of cognitive ergonomics in designed interactions			K3
CO3	Identify the effects of ergonomics in daily life			K1
CO4	Critically analyze any design through the lens of ergonomics			K5
CO5	Create designs with ergonomics 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	2	2	3	3	2	3	2	2	1	3
CO2	2	2	3	3	2	3	2	2	1	3
CO3	2	2	3	3	2	3	2	2	1	3
CO4	2	2	3	3	2	3	2	2	1	3
CO5	2	2	3	3	2	3	2	2	1	3
W. AV	2	2	3	3	2	3	2	2	1	3

Mapping Course Outcome VS Programme Specific Outcomes

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

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

Course Code	82013	Foundation Drawing	P	Credits – 4 Hours 6
Objectives	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				
<ul style="list-style-type: none"> • <i>Scott Robertson & Thomas Bertlin (2013), How to Draw: Drawing And Sketching Objects and Environments From Your Imagination, , Design Studio Press</i> • <i>Koos Eissen & Rosilin Steur (2009), Sketching: Drawing Techniques for Product Designers, BIS Publishers</i> • <i>Steven B. Reddy (2018), Everyday Sketching and Drawing: Five Steps to a Unique and Personal Sketchbook Habit, Monacelli Press</i> • <i>Andrew Loomis (2011), “Drawing the Head and Hands”, Titan Publisher</i> • <i>Alan Pipes (1990), Drawing for 3-dimensional design: Concepts, Illustration, Presentation, Thames & Hudson Publication.</i> 				
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	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10
CO1	3	3	-	-	-	2	1	2	2	3
CO2	3	3	-	-	-	2	1	2	2	3
3CO3	3	3	1	-	-	2	1	2	2	3
CO4	3	3	1	-	2	1	1	2	2	3
CO5	3	2	-	3	1	1	1	1	2	3
W. AV	3	2.8	0.4	0.6	0.6	1.6	1	1.8	2	3

Mapping Course Outcome VS Programme Specific Outcomes

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

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

Course Code	82014	Elements of Design	P	Credits – 4 Hours 6
Objectives	1. To educate about the elements of Design. 2. To educate about the Principles of Design. 3. To emphasize on the cognitive theories governing design. 4. To develop a practical understanding of order and space in design. 5. 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				
<ul style="list-style-type: none"> • <i>William Lidwell, Kritina Holden & Jill Butler (2010), Universal Principles of Design, 2nd Edition, Rockport Publishers</i> • <i>Agoston (1987), G. A., Color Theory and Its Application in Art and Design, Springer, Berlin, Heidelberg</i> • <i>Hisako Ichiki & Takao Umehara (2005), Extra Ordinary: An amusing way for unleashing your creativity, Rockport Publishers</i> • <i>Joyce Wycoff (1991), Mind Mapping: your Personal guide to Exploring Creativity and Problem-Solving, Berkley Books, New York</i> • <i>Ed Catmull (2014), Creativity, INC: Overcoming the unseen forces that Stand in the way of True Inspiration, Bantam Press</i> 				
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				
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

Course Code	82015	Design Process	P	Credits – 4 Hours 4
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

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

DSE	82016	Material Studio and Processes	P	Credits -4 Hours 6
Objectives	<ol style="list-style-type: none"> To educate the characteristics of materials such as clay, plaster of paris, wood and metal. To understand the methods of preparations and relevant tools of operation based on the material. To develop basic forms/structures out of various materials using appropriate tools and machines. To recognize the right choice of material based on the job. 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				
<ul style="list-style-type: none"> Chris Lefteri (2005), <i>Wood: Materials for Inspirational Design</i>, Rotovision Publication Mike Ashby & Kara Johnson (2014), <i>Materials and Design: Art and science of material selection in product design, 3rd Edition</i>, Butterworth – Heinemann Inna Alesina and Ellen Lupton (2010), <i>Exploring Materials: Creative Design for Everyday Objects</i>, Princeton Architectural Press Chris Lefteri, <i>Metals (2004): Material for Inspirational Design</i>, 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

Semester II

CC	82021	Aesthetics in Design	P	Credits- 3	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	82022	Research Methodology	P	Credits- 3	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	82023	Introduction to Photography	P	Credits- 4	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"> • <i>David Praker, (2010), Fundamentals of Creative Photography, AVA Publishing</i> • <i>Michael Freeman, (2005), Digital photography Expert Colour, Ilex Press Ltd</i> • <i>Michael Freeman, (2006), The complete guide to Light and Lighting in Digital Photography, Ilex Press Ltd.</i> 					
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	82024	Elements of Graphic Design	P	Credits -4	Hours -6
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"> • <i>Timothy Samara (2002), Making and Breaking the Grid: A Graphic design layout workshop, Rockport Publishers.</i> • <i>Chen Ci Liang, Greatest Hits of Corporate Layouts, Page One Publishing</i> • <i>Big III Business Layout: The Best Globe Brand Design, Shenzhen Hightone book co. Ltd.</i> • <i>Robert Klaten (2009), Los Logos, Gestalten Publisher. Gestalten & Javier Errea, Newspaper Design: Editorial Design from the World's Best Newsroom, Gestalten Publication.</i> 					
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	82025	Typographic Design	P	Credits- 4	Hours -6
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

CC	82026	Project I : 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 -Way finding systems- Digital Signage, Wall and Floor Graphics, Backlit displays, Window Films, Exhibition-Public Installations–Identity and Placemaking. 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"> <i>Polly McKenna-Cress & Janet Kamien, Creating Exhibitions: Collaboration in the Planning, Development, and Design of Innovative Experiences, Wiley Publication.</i> <i>Pam Locker, Basics Interior Design 02: Exhibition Design, Bloomsbury Publishing India Private Limited.</i> <i>Wang Shaoqiang, Exhibition Art: Graphics and Space Design, Promopress.</i> <i>Judith Bell & Kate Ternus, Silent Selling: Best Practices and Effective Strategies in Visual Merchandising, Fairchild Publications.</i> <i>David Dernie DER, Exhibition Design, Laurence King Publishing, London, 2006.</i> 					
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										

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

DSE	82027	Interaction Design	P	Credits- 4	Hours -4
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

SEMESTER III

CC	82031	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	82032	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	82033	Motion Graphics	P	Credits- 2	Hours -4
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	82034	Design Management and Professional Practice	P	Credits- 2	Hours -3
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

CC	82035	Visual Merchandising	P	Credits- 4	Hours -4
Objectives	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 for 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

CC	82036	Project II - Publication Design and Printing	P	Credits- 4	Hours -4
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
W.A V	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	82037	Project III- New Media Design	P	Credits- 4	Hours -4
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 ArtsDisplay/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

DSE	82038	Design For future	P	Credits- 4	Hours -5
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 IV

CC	82041	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

CC	82042	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 jist 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"> • <i>Wendy Laura Belcher, Writing Your Journal Article in Twelve Weeks, Chicago Guides to Writing, Editing, and Publishing,2019</i> • <i>Kate L. Turabian (Author), Wayne C. Booth, 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										

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